

**AAFCO Check Sample Program**  
**All Labs and All Methods Report**  
**Sort by Method**  
**Proficiency For Individual Methods**  
**Sample # 201022**  
**Beef Cattle Grower, Medicated**



**AAFCO**  
 Association of American Feed Control Officials

| Method Code | Analyte Name and Method               | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|---------------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                       |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 000.01      | Urea, NPN, Urea + Am, Urease Methc    | 208      | 7.2750   | 0.0300 | 16.3423       | 7.1413 | 0.1020 | 8      | -1.27            | 28%            | 0    |
| 000.01      | Urea, NPN, Urea + Am, Urease Methc    | 38       | 7.5250   | 0.0500 | 16.3423       | 7.1413 | 0.1020 | 8      | -1.23            | 27%            | 0    |
| 000.01      | Urea, NPN, Urea + Am, Urease Methc    | 121      | 7.6760   | 0.0460 | 16.3423       | 7.1413 | 0.1020 | 8      | -1.21            | 27%            | 0    |
| 000.01      | Urea, NPN, Urea + Am, Urease Methc    | 171      | 16.7500  | 0.3000 | 16.3423       | 7.1413 | 0.1020 | 8      | 0.06             | 1%             | 0    |
| 000.01      | Urea, NPN, Urea + Am, Urease Methc    | 505      | 19.9400  | 0.2200 | 16.3423       | 7.1413 | 0.1020 | 8      | 0.50             | 11%            | 0    |
| 000.01      | Urea, NPN, Urea + Am, Urease Methc    | 278      | 21.8000  | 0.0000 | 16.3423       | 7.1413 | 0.1020 | 8      | 0.76             | 17%            | 0    |
| 000.01      | Urea, NPN, Urea + Am, Urease Methc    | 35       | 22.2950  | 0.0700 | 16.3423       | 7.1413 | 0.1020 | 8      | 0.83             | 18%            | 0    |
| 000.01      | Urea, NPN, Urea + Am, Urease Methc    | 876      | 22.7300  | 0.1000 | 16.3423       | 7.1413 | 0.1020 | 8      | 0.89             | 20%            | 0    |
| 000.01      | Urea, NPN, Urea + Am, Urease Methc    | 693      | 23.1950  | 0.7300 | 16.3423       | 7.1413 | 0.1020 | 8      | 0.96             | 21%            | 1    |
| 001.00      | Loss on Drying, Vac 95 deg 5 hr       | 861      | 6.8950   | 0.0700 | 7.9919        | 1.0125 | 0.2805 | 7      | -1.08            | 7%             | 0    |
| 001.00      | Loss on Drying, Vac 95 deg 5 hr       | 560      | 6.9500   | 1.0000 | 7.9919        | 1.0125 | 0.2805 | 7      | -1.03            | 7%             | 0    |
| 001.00      | Loss on Drying, Vac 95 deg 5 hr       | 169      | 7.5100   | 0.0600 | 7.9919        | 1.0125 | 0.2805 | 7      | -0.48            | 3%             | 0    |
| 001.00      | Loss on Drying, Vac 95 deg 5 hr       | 722      | 8.0983   | 0.1737 | 7.9919        | 1.0125 | 0.2805 | 7      | 0.11             | 1%             | 0    |
| 001.00      | Loss on Drying, Vac 95 deg 5 hr       | 844      | 8.5300   | 0.0600 | 7.9919        | 1.0125 | 0.2805 | 7      | 0.53             | 3%             | 0    |
| 001.00      | Loss on Drying, Vac 95 deg 5 hr       | 784      | 8.9150   | 0.0500 | 7.9919        | 1.0125 | 0.2805 | 7      | 0.91             | 6%             | 0    |
| 001.00      | Loss on Drying, Vac 95 deg 5 hr       | 1        | 9.0450   | 0.5500 | 7.9919        | 1.0125 | 0.2805 | 7      | 1.04             | 7%             | 0    |
| 001.00      | Loss on Drying, Vac 95 deg 5 hr       | 504      | 9.0650   | 2.1100 | 7.9919        | 1.0125 | 0.2805 | 7      | 1.06             | 7%             | 1    |
| 001.00      | Loss on Drying, Vac 95 deg 5 hr       | 783      | 8.7350   | 0.1100 | 7.9919        | 1.0125 | 0.2805 | 7      | 0.73             | 5%             | 8    |
| 001.00      | Loss on Drying, Vac 95 deg 5 hr       | 785      | 8.7350   | 0.2100 | 7.9919        | 1.0125 | 0.2805 | 7      | 0.73             | 5%             | 8    |
| 001.03      | Loss on Drying, Low temp. methods     | 731      | 6.0750   | 0.0500 | 7.1350        | 0.7913 | 0.1150 | 4      | -1.34            | 7%             | 0    |
| 001.03      | Loss on Drying, Low temp. methods     | 679      | 7.1000   | 0.2000 | 7.1350        | 0.7913 | 0.1150 | 4      | -0.04            | 0%             | 0    |
| 001.03      | Loss on Drying, Low temp. methods     | 868      | 7.4050   | 0.0900 | 7.1350        | 0.7913 | 0.1150 | 4      | 0.34             | 2%             | 0    |
| 001.03      | Loss on Drying, Low temp. methods     | 686      | 7.9600   | 0.1200 | 7.1350        | 0.7913 | 0.1150 | 4      | 1.04             | 6%             | 0    |
| 001.05      | Loss on Drying, LECO                  | 610      | 6.2500   | 0.0200 |               |        | 0.0200 | 1      |                  |                |      |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 609      | 6.1500   | 0.3000 | 7.1555        | 0.6052 | 0.1804 | 33     | -1.66            | 7%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 353      | 6.1950   | 0.1900 | 7.1555        | 0.6052 | 0.1804 | 33     | -1.59            | 7%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 49       | 6.3900   | 0.2000 | 7.1555        | 0.6052 | 0.1804 | 33     | -1.26            | 5%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 4        | 6.4400   | 0.0200 | 7.1555        | 0.6052 | 0.1804 | 33     | -1.18            | 5%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 83       | 6.5000   | 0.1000 | 7.1555        | 0.6052 | 0.1804 | 33     | -1.08            | 5%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 345      | 6.5900   | 0.0600 | 7.1555        | 0.6052 | 0.1804 | 33     | -0.93            | 4%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 38       | 6.6875   | 0.0950 | 7.1555        | 0.6052 | 0.1804 | 33     | -0.77            | 3%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 849      | 6.7150   | 0.1500 | 7.1555        | 0.6052 | 0.1804 | 33     | -0.73            | 3%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 843      | 6.7750   | 0.3100 | 7.1555        | 0.6052 | 0.1804 | 33     | -0.63            | 3%             | 0    |

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|-------------|---------------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                       |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 592      | 6.8500   | 0.0600 | 7.1555        | 0.6052 | 0.1804 | 33     | -0.50            | 2%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 845      | 6.8550   | 0.3500 | 7.1555        | 0.6052 | 0.1804 | 33     | -0.50            | 2%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 695      | 6.9800   | 0.1600 | 7.1555        | 0.6052 | 0.1804 | 33     | -0.29            | 1%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 65       | 7.0463   | 0.0275 | 7.1555        | 0.6052 | 0.1804 | 33     | -0.18            | 1%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 178      | 7.0500   | 0.1000 | 7.1555        | 0.6052 | 0.1804 | 33     | -0.17            | 1%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 693      | 7.0700   | 0.2600 | 7.1555        | 0.6052 | 0.1804 | 33     | -0.14            | 1%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 571      | 7.0800   | 0.0800 | 7.1555        | 0.6052 | 0.1804 | 33     | -0.12            | 1%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 171      | 7.1400   | 0.0600 | 7.1555        | 0.6052 | 0.1804 | 33     | -0.03            | 0%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 35       | 7.1450   | 0.0300 | 7.1555        | 0.6052 | 0.1804 | 33     | -0.02            | 0%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 689      | 7.1500   | 0.1000 | 7.1555        | 0.6052 | 0.1804 | 33     | -0.01            | 0%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 89       | 7.1900   | 0.0000 | 7.1555        | 0.6052 | 0.1804 | 33     | 0.06             | 0%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 413      | 7.2500   | 0.1000 | 7.1555        | 0.6052 | 0.1804 | 33     | 0.16             | 1%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 187      | 7.2950   | 0.0700 | 7.1555        | 0.6052 | 0.1804 | 33     | 0.23             | 1%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 872      | 7.3350   | 0.0700 | 7.1555        | 0.6052 | 0.1804 | 33     | 0.30             | 1%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 98       | 7.5500   | 0.1000 | 7.1555        | 0.6052 | 0.1804 | 33     | 0.65             | 3%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 669      | 7.5550   | 0.1300 | 7.1555        | 0.6052 | 0.1804 | 33     | 0.66             | 3%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 45       | 7.6150   | 0.6700 | 7.1555        | 0.6052 | 0.1804 | 33     | 0.76             | 3%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 139      | 7.6650   | 0.5300 | 7.1555        | 0.6052 | 0.1804 | 33     | 0.84             | 4%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 199      | 7.7150   | 0.1500 | 7.1555        | 0.6052 | 0.1804 | 33     | 0.92             | 4%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 366      | 7.7500   | 0.9000 | 7.1555        | 0.6052 | 0.1804 | 33     | 0.98             | 4%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 675      | 8.1100   | 0.0600 | 7.1555        | 0.6052 | 0.1804 | 33     | 1.58             | 7%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 550      | 8.4400   | 0.2200 | 7.1555        | 0.6052 | 0.1804 | 33     | 2.12             | 9%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 581      | 8.4550   | 0.1300 | 7.1555        | 0.6052 | 0.1804 | 33     | 2.15             | 9%             | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 616      | 8.7450   | 0.1700 | 7.1555        | 0.6052 | 0.1804 | 33     | 2.63             | 11%            | 0    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 618      | 4.1600   | 1.1000 | 7.1555        | 0.6052 | 0.1804 | 33     | -4.95            | 21%            | 1    |
| 001.07      | Loss on Drying, 104 deg 3 hr, in malt | 278      | 92.4200  | 0.0400 | 7.1555        | 0.6052 | 0.1804 | 33     | 140.89           | 596%           | 2    |
| 001.08      | Loss on Drying, 102 deg 16 hr, in mea | 590      | 7.3950   | 0.2100 |               |        | 0.2100 | 1      |                  |                |      |
| 001.99      | Loss on Drying, Miscellaneous         | 615      | 6.3150   | 0.2100 | 7.9583        | 1.0463 | 0.0992 | 12     | -1.57            | 10%            | 0    |
| 001.99      | Loss on Drying, Miscellaneous         | 787      | 6.6800   | 0.0600 | 7.9583        | 1.0463 | 0.0992 | 12     | -1.22            | 8%             | 0    |
| 001.99      | Loss on Drying, Miscellaneous         | 37       | 7.0950   | 0.1100 | 7.9583        | 1.0463 | 0.0992 | 12     | -0.83            | 5%             | 0    |
| 001.99      | Loss on Drying, Miscellaneous         | 853      | 7.2250   | 0.0900 | 7.9583        | 1.0463 | 0.0992 | 12     | -0.70            | 5%             | 0    |
| 001.99      | Loss on Drying, Miscellaneous         | 505      | 7.6650   | 0.2900 | 7.9583        | 1.0463 | 0.0992 | 12     | -0.28            | 2%             | 0    |
| 001.99      | Loss on Drying, Miscellaneous         | 629      | 8.0500   | 0.1000 | 7.9583        | 1.0463 | 0.0992 | 12     | 0.09             | 1%             | 0    |
| 001.99      | Loss on Drying, Miscellaneous         | 536      | 8.0600   | 0.1400 | 7.9583        | 1.0463 | 0.0992 | 12     | 0.10             | 1%             | 0    |
| 001.99      | Loss on Drying, Miscellaneous         | 630      | 8.3700   | 0.0800 | 7.9583        | 1.0463 | 0.0992 | 12     | 0.39             | 3%             | 0    |
| 001.99      | Loss on Drying, Miscellaneous         | 510      | 8.4000   | 0.0000 | 7.9583        | 1.0463 | 0.0992 | 12     | 0.42             | 3%             | 0    |
| 001.99      | Loss on Drying, Miscellaneous         | 656      | 8.4150   | 0.0700 | 7.9583        | 1.0463 | 0.0992 | 12     | 0.44             | 3%             | 0    |
| 001.99      | Loss on Drying, Miscellaneous         | 681      | 9.9300   | 0.0400 | 7.9583        | 1.0463 | 0.0992 | 12     | 1.88             | 12%            | 0    |
| 001.99      | Loss on Drying, Miscellaneous         | 619      | 10.2000  | 0.0000 | 7.9583        | 1.0463 | 0.0992 | 12     | 2.14             | 14%            | 0    |
| 001.99      | Loss on Drying, Miscellaneous         | 51       | 44.0650  | 0.3100 | 7.9583        | 1.0463 | 0.0992 | 12     | 34.51            | 227%           | 2    |
| 001.99      | Loss on Drying, Miscellaneous         | 786      | 6.8400   | 0.0000 | 7.9583        | 1.0463 | 0.0992 | 12     | -1.07            | 7%             | 8    |
| 001.99      | Loss on Drying, Miscellaneous         | 788      | 6.9350   | 0.3100 | 7.9583        | 1.0463 | 0.0992 | 12     | -0.98            | 6%             | 8    |

| Method Code | Analyte Name and Method        | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|--------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 002.00      | Protein, Crude                 | 867      | 41.5850  | 0.0300 | 43.0733       | 1.3476 | 0.4300 | 6      | -1.10            | 2%             | 0    |
| 002.00      | Protein, Crude                 | 826      | 42.2100  | 0.7800 | 43.0733       | 1.3476 | 0.4300 | 6      | -0.64            | 1%             | 0    |
| 002.00      | Protein, Crude                 | 679      | 42.3800  | 0.1200 | 43.0733       | 1.3476 | 0.4300 | 6      | -0.51            | 1%             | 0    |
| 002.00      | Protein, Crude                 | 199      | 43.7500  | 0.2000 | 43.0733       | 1.3476 | 0.4300 | 6      | 0.50             | 1%             | 0    |
| 002.00      | Protein, Crude                 | 845      | 43.8350  | 0.9700 | 43.0733       | 1.3476 | 0.4300 | 6      | 0.57             | 1%             | 0    |
| 002.00      | Protein, Crude                 | 28       | 44.6800  | 0.4800 | 43.0733       | 1.3476 | 0.4300 | 6      | 1.19             | 2%             | 0    |
| 002.01      | Protein, Auto Kjel-Foss        | 848      | 43.0650  | 0.0100 | 43.4831       | 0.2871 | 0.1391 | 9      | -1.46            | 0%             | 0    |
| 002.01      | Protein, Auto Kjel-Foss        | 653      | 43.2400  | 0.0000 | 43.4831       | 0.2871 | 0.1391 | 9      | -0.85            | 0%             | 0    |
| 002.01      | Protein, Auto Kjel-Foss        | 350      | 43.3445  | 0.0050 | 43.4831       | 0.2871 | 0.1391 | 9      | -0.48            | 0%             | 0    |
| 002.01      | Protein, Auto Kjel-Foss        | 98       | 43.4000  | 0.0000 | 43.4831       | 0.2871 | 0.1391 | 9      | -0.29            | 0%             | 0    |
| 002.01      | Protein, Auto Kjel-Foss        | 716      | 43.4450  | 0.0700 | 43.4831       | 0.2871 | 0.1391 | 9      | -0.13            | 0%             | 0    |
| 002.01      | Protein, Auto Kjel-Foss        | 723      | 43.6350  | 0.0100 | 43.4831       | 0.2871 | 0.1391 | 9      | 0.53             | 0%             | 0    |
| 002.01      | Protein, Auto Kjel-Foss        | 43       | 43.6400  | 0.6200 | 43.4831       | 0.2871 | 0.1391 | 9      | 0.55             | 0%             | 0    |
| 002.01      | Protein, Auto Kjel-Foss        | 652      | 43.7000  | 0.4000 | 43.4831       | 0.2871 | 0.1391 | 9      | 0.76             | 0%             | 0    |
| 002.01      | Protein, Auto Kjel-Foss        | 62       | 43.9465  | 0.1370 | 43.4831       | 0.2871 | 0.1391 | 9      | 1.61             | 1%             | 0    |
| 002.02      | Protein, Semiauto Autoanalyzer | 42       | 42.7250  | 0.0900 | 43.7792       | 0.6734 | 0.2103 | 6      | -1.57            | 1%             | 0    |
| 002.02      | Protein, Semiauto Autoanalyzer | 169      | 43.4100  | 0.4400 | 43.7792       | 0.6734 | 0.2103 | 6      | -0.55            | 0%             | 0    |
| 002.02      | Protein, Semiauto Autoanalyzer | 669      | 43.7900  | 0.3000 | 43.7792       | 0.6734 | 0.2103 | 6      | 0.02             | 0%             | 0    |
| 002.02      | Protein, Semiauto Autoanalyzer | 43       | 43.8450  | 0.2100 | 43.7792       | 0.6734 | 0.2103 | 6      | 0.10             | 0%             | 0    |
| 002.02      | Protein, Semiauto Autoanalyzer | 36       | 44.2763  | 0.0219 | 43.7792       | 0.6734 | 0.2103 | 6      | 0.74             | 1%             | 0    |
| 002.02      | Protein, Semiauto Autoanalyzer | 152      | 44.5000  | 0.2000 | 43.7792       | 0.6734 | 0.2103 | 6      | 1.07             | 1%             | 0    |
| 002.04      | Protein, Copper Cat            | 876      | 42.0200  | 0.4200 | 43.9667       | 0.6037 | 0.4833 | 6      | -3.22            | 2%             | 0    |
| 002.04      | Protein, Copper Cat            | 868      | 43.5800  | 0.0800 | 43.9667       | 0.6037 | 0.4833 | 6      | -0.64            | 0%             | 0    |
| 002.04      | Protein, Copper Cat            | 874      | 43.8000  | 0.6800 | 43.9667       | 0.6037 | 0.4833 | 6      | -0.28            | 0%             | 0    |
| 002.04      | Protein, Copper Cat            | 504      | 44.1850  | 0.0700 | 43.9667       | 0.6037 | 0.4833 | 6      | 0.36             | 0%             | 0    |
| 002.04      | Protein, Copper Cat            | 208      | 44.2500  | 0.1000 | 43.9667       | 0.6037 | 0.4833 | 6      | 0.47             | 0%             | 0    |
| 002.04      | Protein, Copper Cat            | 187      | 45.2450  | 1.5500 | 43.9667       | 0.6037 | 0.4833 | 6      | 2.12             | 1%             | 0    |
| 002.05      | Protein, Copper, Boric Acid    | 852      | 40.6700  | 0.2600 | 43.5480       | 0.4270 | 0.1317 | 17     | -6.74            | 3%             | 0    |
| 002.05      | Protein, Copper, Boric Acid    | 354      | 42.8000  | 0.0000 | 43.5480       | 0.4270 | 0.1317 | 17     | -1.75            | 1%             | 0    |
| 002.05      | Protein, Copper, Boric Acid    | 689      | 42.9000  | 0.2000 | 43.5480       | 0.4270 | 0.1317 | 17     | -1.52            | 1%             | 0    |
| 002.05      | Protein, Copper, Boric Acid    | 658      | 43.2562  | 0.2101 | 43.5480       | 0.4270 | 0.1317 | 17     | -0.68            | 0%             | 0    |
| 002.05      | Protein, Copper, Boric Acid    | 849      | 43.3050  | 0.0100 | 43.5480       | 0.4270 | 0.1317 | 17     | -0.57            | 0%             | 0    |
| 002.05      | Protein, Copper, Boric Acid    | 39       | 43.4440  | 0.0260 | 43.5480       | 0.4270 | 0.1317 | 17     | -0.24            | 0%             | 0    |
| 002.05      | Protein, Copper, Boric Acid    | 596      | 43.4500  | 0.5000 | 43.5480       | 0.4270 | 0.1317 | 17     | -0.23            | 0%             | 0    |
| 002.05      | Protein, Copper, Boric Acid    | 552      | 43.4600  | 0.2000 | 43.5480       | 0.4270 | 0.1317 | 17     | -0.21            | 0%             | 0    |
| 002.05      | Protein, Copper, Boric Acid    | 536      | 43.5700  | 0.1600 | 43.5480       | 0.4270 | 0.1317 | 17     | 0.05             | 0%             | 0    |
| 002.05      | Protein, Copper, Boric Acid    | 871      | 43.5900  | 0.0000 | 43.5480       | 0.4270 | 0.1317 | 17     | 0.10             | 0%             | 0    |
| 002.05      | Protein, Copper, Boric Acid    | 83       | 43.6900  | 0.1200 | 43.5480       | 0.4270 | 0.1317 | 17     | 0.33             | 0%             | 0    |
| 002.05      | Protein, Copper, Boric Acid    | 305      | 43.7300  | 0.1400 | 43.5480       | 0.4270 | 0.1317 | 17     | 0.43             | 0%             | 0    |
| 002.05      | Protein, Copper, Boric Acid    | 194      | 43.8400  | 0.0200 | 43.5480       | 0.4270 | 0.1317 | 17     | 0.68             | 0%             | 0    |
| 002.05      | Protein, Copper, Boric Acid    | 620      | 43.8798  | 0.1110 | 43.5480       | 0.4270 | 0.1317 | 17     | 0.78             | 0%             | 0    |
| 002.05      | Protein, Copper, Boric Acid    | 178      | 43.9000  | 0.2000 | 43.5480       | 0.4270 | 0.1317 | 17     | 0.82             | 0%             | 0    |

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|-------------|--------------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                      |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 002.05      | Protein, Copper, Boric Acid          | 722      | 44.1216  | 0.0363 | 43.5480       | 0.4270 | 0.1317 | 17     | <b>1.34</b>      | 1%             | 0    |
| 002.05      | Protein, Copper, Boric Acid          | 622      | 44.2464  | 0.0453 | 43.5480       | 0.4270 | 0.1317 | 17     | <b>1.64</b>      | 1%             | 0    |
| 002.05      | Protein, Copper, Boric Acid          | 179      | 43.2000  | 0.9400 | 43.5480       | 0.4270 | 0.1317 | 17     | <b>-0.81</b>     | 0%             | 1    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 687      | 40.1100  | 0.2200 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-11.43</b>    | 5%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 647      | 41.9750  | 4.9500 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-6.28</b>     | 3%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 859      | 42.3060  | 0.1320 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-5.37</b>     | 2%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 679      | 42.9550  | 0.1100 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-3.57</b>     | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 42       | 43.0350  | 0.1700 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-3.35</b>     | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 345      | 43.2150  | 0.1100 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-2.86</b>     | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 592      | 43.3140  | 0.2700 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-2.58</b>     | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 781      | 43.3150  | 0.3700 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-2.58</b>     | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 618      | 43.3650  | 0.4100 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-2.44</b>     | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 100      | 43.6150  | 0.7900 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-1.75</b>     | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 692      | 43.6500  | 0.1000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-1.65</b>     | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 139      | 43.7050  | 0.3700 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-1.50</b>     | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 358      | 43.7450  | 0.1700 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-1.39</b>     | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 33       | 43.7500  | 0.0800 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-1.38</b>     | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 144      | 43.7850  | 0.0700 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-1.28</b>     | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 695      | 43.7950  | 0.3300 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-1.25</b>     | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 106      | 43.8300  | 0.0400 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-1.16</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 119      | 43.8400  | 0.0400 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-1.13</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 712      | 43.8450  | 0.1500 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-1.12</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 553      | 43.8850  | 0.2840 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-1.00</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 798      | 43.8850  | 0.3700 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-1.00</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 508      | 43.8905  | 0.2070 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.99</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 14       | 43.9000  | 0.2000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.96</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 619      | 43.9000  | 0.0000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.96</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 49       | 43.9000  | 0.3800 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.96</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 609      | 43.9300  | 0.1600 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.88</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 546      | 43.9355  | 0.0690 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.87</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 354      | 43.9450  | 0.0100 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.84</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 27       | 43.9465  | 0.5010 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.83</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 505      | 43.9650  | 0.3900 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.78</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 18       | 43.9750  | 0.4300 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.76</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 626      | 43.9750  | 0.1500 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.76</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 520      | 43.9750  | 0.0300 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.76</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 539      | 43.9850  | 0.8300 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.73</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 37       | 44.0200  | 0.0600 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.63</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 660      | 44.0250  | 0.0700 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.62</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 160      | 44.0350  | 0.5100 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.59</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 872      | 44.0405  | 0.1250 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.58</b>     | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 4        | 44.0500  | 0.1800 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>-0.55</b>     | 0%             | 0    |

| Method Code | Analyte Name and Method              | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|--------------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                      |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 002.06      | Protein, Combustion Nitrogen Analyze | 242      | 44.0650  | 0.1300 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.51            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 407      | 44.0650  | 0.0300 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.51            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 868      | 44.0750  | 0.0900 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.48            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 857      | 44.0950  | 0.5900 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.42            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 278      | 44.1000  | 0.0000 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.41            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 541      | 44.1250  | 0.2500 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.34            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 670      | 44.1300  | 0.0600 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.33            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 829      | 44.1550  | 0.0100 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.26            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 294      | 44.1600  | 0.0600 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.24            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 19       | 44.1750  | 0.3300 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.20            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 787      | 44.1750  | 0.0700 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.20            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 571      | 44.1765  | 0.0850 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.20            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 741      | 44.1850  | 0.5500 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.18            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 34       | 44.2000  | 0.0400 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.13            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 35       | 44.2000  | 0.0400 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.13            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 26       | 44.2050  | 0.0500 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.12            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 550      | 44.2100  | 0.1000 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.11            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 776      | 44.2200  | 0.3800 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.08            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 843      | 44.2200  | 0.4600 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.08            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 121      | 44.2210  | 0.1760 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.08            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 817      | 44.2450  | 0.0900 | 44.2487       | 0.3621 | 0.2269 | 127    | -0.01            | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 45       | 44.2500  | 0.1000 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.00             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 89       | 44.2500  | 0.0000 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.00             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 610      | 44.2500  | 0.1000 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.00             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 229      | 44.2700  | 0.0600 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.06             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 13       | 44.2750  | 0.0900 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.07             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 529      | 44.2750  | 0.0100 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.07             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 36       | 44.2900  | 0.0200 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.11             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 21       | 44.2950  | 0.1100 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.13             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 199      | 44.2950  | 0.0700 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.13             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 615      | 44.3000  | 0.1800 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.14             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 811      | 44.3000  | 0.2800 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.14             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 298      | 44.3200  | 0.0200 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.20             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 6        | 44.3275  | 0.0770 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.22             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 3        | 44.3300  | 0.0800 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.22             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 65       | 44.3300  | 0.0600 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.22             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 366      | 44.3500  | 0.1000 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.28             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 646      | 44.3500  | 0.0000 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.28             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 676      | 44.3530  | 0.0940 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.29             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 630      | 44.3650  | 0.2300 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.32             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 598      | 44.3700  | 0.3400 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.34             | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 205      | 44.3750  | 0.0900 | 44.2487       | 0.3621 | 0.2269 | 127    | 0.35             | 0%             | 0    |

| Method Code | Analyte Name and Method              | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|--------------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                      |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 002.06      | Protein, Combustion Nitrogen Analyze | 650      | 44.3750  | 0.3100 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.35</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 735      | 44.3800  | 0.2000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.36</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 738      | 44.3900  | 0.0600 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.39</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 853      | 44.3900  | 0.2000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.39</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 43       | 44.3950  | 0.4700 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.40</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 589      | 44.3950  | 0.1300 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.40</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 164      | 44.4150  | 0.0100 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.46</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 38       | 44.4150  | 0.0700 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.46</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 512      | 44.4250  | 0.5700 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.49</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 47       | 44.4400  | 0.6400 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.53</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 98       | 44.4500  | 0.1000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.56</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 171      | 44.4500  | 0.3000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.56</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 353      | 44.4500  | 0.0600 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.56</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 726      | 44.4510  | 0.0560 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.56</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 108      | 44.4700  | 0.4600 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.61</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 590      | 44.4750  | 0.1500 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.63</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 682      | 44.4850  | 0.0900 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.65</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 175      | 44.5000  | 0.2000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.69</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 265      | 44.5000  | 0.0000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.69</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 190      | 44.5150  | 0.0900 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.74</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 1        | 44.5250  | 0.5900 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.76</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 148      | 44.5400  | 0.0200 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.80</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 425      | 44.5500  | 0.0600 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.83</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 574      | 44.5500  | 0.1000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.83</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 866      | 44.5500  | 0.1000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.83</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 504      | 44.5650  | 0.0900 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.87</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 750      | 44.5650  | 0.1500 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.87</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 8        | 44.5700  | 0.1200 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.89</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 226      | 44.6500  | 0.5000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.11</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 693      | 44.6550  | 0.1300 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.12</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 511      | 44.6850  | 0.1500 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.21</b>      | 0%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 784      | 44.7250  | 0.1100 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.32</b>      | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 823      | 44.7500  | 0.1000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.38</b>      | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 32       | 44.8000  | 0.4000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.52</b>      | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 792      | 44.8100  | 0.1400 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.55</b>      | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 179      | 44.9000  | 0.1600 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.80</b>      | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 233      | 44.9000  | 0.1600 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.80</b>      | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 761      | 44.9250  | 0.0300 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.87</b>      | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 11       | 45.0000  | 0.7000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>2.08</b>      | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 263      | 45.0083  | 0.0966 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>2.10</b>      | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 554      | 45.0550  | 0.0100 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>2.23</b>      | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 413      | 45.1000  | 0.2000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>2.35</b>      | 1%             | 0    |

| Method Code | Analyte Name and Method              | Lab Code | Lab Data |         | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|--------------------------------------|----------|----------|---------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                      |          | Value    | range   | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 002.06      | Protein, Combustion Nitrogen Analyze | 686      | 45.1250  | 0.0900  | 44.2487       | 0.3621 | 0.2269 | 127    | 2.42             | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 510      | 45.2500  | 0.3000  | 44.2487       | 0.3621 | 0.2269 | 127    | 2.77             | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 16       | 45.4000  | 0.4000  | 44.2487       | 0.3621 | 0.2269 | 127    | 3.18             | 1%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 616      | 45.7000  | 0.2000  | 44.2487       | 0.3621 | 0.2269 | 127    | 4.01             | 2%             | 0    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 2        | 16.2700  | 0.0600  | 44.2487       | 0.3621 | 0.2269 | 127    | -77.28           | 32%            | 2    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 656      | 24.2300  | 38.5400 | 44.2487       | 0.3621 | 0.2269 | 127    | -55.29           | 23%            | 2    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 782      | 43.0350  | 0.9100  | 44.2487       | 0.3621 | 0.2269 | 127    | -3.35            | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 803      | 43.4250  | 0.2100  | 44.2487       | 0.3621 | 0.2269 | 127    | -2.28            | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 797      | 43.4500  | 0.2400  | 44.2487       | 0.3621 | 0.2269 | 127    | -2.21            | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 801      | 43.4800  | 0.7800  | 44.2487       | 0.3621 | 0.2269 | 127    | -2.12            | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 800      | 43.5150  | 0.0500  | 44.2487       | 0.3621 | 0.2269 | 127    | -2.03            | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 777      | 43.5300  | 1.1600  | 44.2487       | 0.3621 | 0.2269 | 127    | -1.99            | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 796      | 43.6400  | 0.1400  | 44.2487       | 0.3621 | 0.2269 | 127    | -1.68            | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 805      | 43.7300  | 0.1800  | 44.2487       | 0.3621 | 0.2269 | 127    | -1.43            | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 833      | 43.7400  | 0.0200  | 44.2487       | 0.3621 | 0.2269 | 127    | -1.41            | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 812      | 43.8300  | 0.0800  | 44.2487       | 0.3621 | 0.2269 | 127    | -1.16            | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 810      | 43.8800  | 0.0600  | 44.2487       | 0.3621 | 0.2269 | 127    | -1.02            | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 744      | 43.9900  | 0.0200  | 44.2487       | 0.3621 | 0.2269 | 127    | -0.71            | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 804      | 43.9900  | 0.2400  | 44.2487       | 0.3621 | 0.2269 | 127    | -0.71            | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 743      | 44.0150  | 0.0500  | 44.2487       | 0.3621 | 0.2269 | 127    | -0.65            | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 790      | 44.0500  | 0.0200  | 44.2487       | 0.3621 | 0.2269 | 127    | -0.55            | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 831      | 44.0900  | 0.1000  | 44.2487       | 0.3621 | 0.2269 | 127    | -0.44            | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 813      | 44.0950  | 0.0100  | 44.2487       | 0.3621 | 0.2269 | 127    | -0.42            | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 806      | 44.1050  | 0.3300  | 44.2487       | 0.3621 | 0.2269 | 127    | -0.40            | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 795      | 44.1150  | 0.4100  | 44.2487       | 0.3621 | 0.2269 | 127    | -0.37            | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 814      | 44.1500  | 0.1000  | 44.2487       | 0.3621 | 0.2269 | 127    | -0.27            | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 760      | 44.1600  | 0.0600  | 44.2487       | 0.3621 | 0.2269 | 127    | -0.24            | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 772      | 44.1750  | 0.0300  | 44.2487       | 0.3621 | 0.2269 | 127    | -0.20            | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 832      | 44.2350  | 0.1700  | 44.2487       | 0.3621 | 0.2269 | 127    | -0.04            | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 830      | 44.2550  | 0.1700  | 44.2487       | 0.3621 | 0.2269 | 127    | 0.02             | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 815      | 44.2700  | 0.0600  | 44.2487       | 0.3621 | 0.2269 | 127    | 0.06             | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 821      | 44.3050  | 0.1500  | 44.2487       | 0.3621 | 0.2269 | 127    | 0.16             | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 780      | 44.3100  | 0.0800  | 44.2487       | 0.3621 | 0.2269 | 127    | 0.17             | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 809      | 44.3250  | 0.2900  | 44.2487       | 0.3621 | 0.2269 | 127    | 0.21             | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 794      | 44.3550  | 0.2500  | 44.2487       | 0.3621 | 0.2269 | 127    | 0.29             | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 788      | 44.3690  | 0.4820  | 44.2487       | 0.3621 | 0.2269 | 127    | 0.33             | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 742      | 44.3700  | 0.1000  | 44.2487       | 0.3621 | 0.2269 | 127    | 0.34             | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 751      | 44.3750  | 0.2100  | 44.2487       | 0.3621 | 0.2269 | 127    | 0.35             | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 835      | 44.3950  | 0.0100  | 44.2487       | 0.3621 | 0.2269 | 127    | 0.40             | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 819      | 44.4000  | 0.0000  | 44.2487       | 0.3621 | 0.2269 | 127    | 0.42             | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 827      | 44.4100  | 0.4800  | 44.2487       | 0.3621 | 0.2269 | 127    | 0.45             | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 774      | 44.4150  | 0.3300  | 44.2487       | 0.3621 | 0.2269 | 127    | 0.46             | 0%             | 8    |

| Method Code | Analyte Name and Method              | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|--------------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                      |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 002.06      | Protein, Combustion Nitrogen Analyze | 778      | 44.4150  | 0.0700 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.46</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 771      | 44.4250  | 0.0900 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.49</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 740      | 44.4300  | 0.3000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.50</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 816      | 44.4500  | 0.3000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.56</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 737      | 44.4650  | 0.1300 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.60</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 753      | 44.4650  | 0.0900 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.60</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 758      | 44.5050  | 0.0700 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.71</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 748      | 44.5200  | 0.0200 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.75</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 808      | 44.5300  | 0.3000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.78</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 786      | 44.5350  | 0.4900 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.79</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 825      | 44.5500  | 0.1000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.83</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 807      | 44.5550  | 0.4100 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.85</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 759      | 44.5600  | 0.0400 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.86</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 762      | 44.5700  | 0.3400 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.89</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 755      | 44.5750  | 0.0100 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.90</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 756      | 44.5800  | 0.3400 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.92</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 745      | 44.5900  | 0.3600 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.94</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 763      | 44.5950  | 0.0300 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.96</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 822      | 44.5950  | 0.5100 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>0.96</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 749      | 44.6150  | 0.0700 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.01</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 785      | 44.6200  | 0.0600 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.03</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 754      | 44.6250  | 0.0100 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.04</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 747      | 44.6400  | 0.0800 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.08</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 770      | 44.6450  | 0.0100 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.09</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 834      | 44.6450  | 0.1300 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.09</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 828      | 44.6450  | 0.1100 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.09</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 824      | 44.6500  | 0.1000 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.11</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 746      | 44.6550  | 0.0300 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.12</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 757      | 44.6650  | 0.3300 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.15</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 769      | 44.6800  | 0.0400 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.19</b>      | 0%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 767      | 44.7100  | 0.0600 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.27</b>      | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 783      | 44.7250  | 0.0900 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.32</b>      | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 775      | 44.7400  | 0.0200 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.36</b>      | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 752      | 44.7550  | 0.2500 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.40</b>      | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 765      | 44.7850  | 0.1300 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.48</b>      | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 736      | 44.8950  | 0.1300 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>1.79</b>      | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 734      | 44.9750  | 0.0900 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>2.01</b>      | 1%             | 8    |
| 002.06      | Protein, Combustion Nitrogen Analyze | 739      | 45.3600  | 0.1800 | 44.2487       | 0.3621 | 0.2269 | 127    | <b>3.07</b>      | 1%             | 8    |
| 002.08      | Protein, Cu/Ti                       | 610      | 44.5500  | 0.7000 | 44.8009       | 0.3548 | 0.3777 | 2      | <b>-0.71</b>     | 0%             | 0    |
| 002.08      | Protein, Cu/Ti                       | 563      | 45.0517  | 0.0554 | 44.8009       | 0.3548 | 0.3777 | 2      | <b>0.71</b>      | 0%             | 0    |
| 002.10      | Protein, Block dig/distillation      | 631      | 42.4400  | 0.6000 | 43.7100       | 0.3232 | 0.2019 | 8      | <b>-3.93</b>     | 1%             | 0    |
| 002.10      | Protein, Block dig/distillation      | 731      | 42.8250  | 0.0500 | 43.7100       | 0.3232 | 0.2019 | 8      | <b>-2.74</b>     | 1%             | 0    |



| Method Code | Analyte Name and Method               | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|---------------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                       |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 002.10      | Protein, Block dig/distillation       | 629      | 43.5750  | 0.1300 | 43.7100       | 0.3232 | 0.2019 | 8      | -0.42            | 0%             | 0    |
| 002.10      | Protein, Block dig/distillation       | 613      | 43.6850  | 0.5900 | 43.7100       | 0.3232 | 0.2019 | 8      | -0.08            | 0%             | 0    |
| 002.10      | Protein, Block dig/distillation       | 675      | 43.7850  | 0.0100 | 43.7100       | 0.3232 | 0.2019 | 8      | 0.23             | 0%             | 0    |
| 002.10      | Protein, Block dig/distillation       | 619      | 43.9000  | 0.0000 | 43.7100       | 0.3232 | 0.2019 | 8      | 0.59             | 0%             | 0    |
| 002.10      | Protein, Block dig/distillation       | 546      | 43.9290  | 0.1249 | 43.7100       | 0.3232 | 0.2019 | 8      | 0.68             | 0%             | 0    |
| 002.10      | Protein, Block dig/distillation       | 861      | 44.2550  | 0.1100 | 43.7100       | 0.3232 | 0.2019 | 8      | 1.69             | 1%             | 0    |
| 002.10      | Protein, Block dig/distillation       | 160      | 41.9350  | 1.5500 | 43.7100       | 0.3232 | 0.2019 | 8      | -5.49            | 2%             | 1    |
| 002.11      | Protein, NIR                          | 679      | 39.3150  | 0.3100 | 41.7256       | 1.0566 | 0.2200 | 8      | -2.28            | 3%             | 0    |
| 002.11      | Protein, NIR                          | 631      | 40.6400  | 0.1000 | 41.7256       | 1.0566 | 0.2200 | 8      | -1.03            | 1%             | 0    |
| 002.11      | Protein, NIR                          | 867      | 41.2800  | 0.0400 | 41.7256       | 1.0566 | 0.2200 | 8      | -0.42            | 1%             | 0    |
| 002.11      | Protein, NIR                          | 32       | 41.7000  | 0.6000 | 41.7256       | 1.0566 | 0.2200 | 8      | -0.02            | 0%             | 0    |
| 002.11      | Protein, NIR                          | 11       | 41.8500  | 0.1000 | 41.7256       | 1.0566 | 0.2200 | 8      | 0.12             | 0%             | 0    |
| 002.11      | Protein, NIR                          | 713      | 42.3050  | 0.1700 | 41.7256       | 1.0566 | 0.2200 | 8      | 0.55             | 1%             | 0    |
| 002.11      | Protein, NIR                          | 731      | 42.4800  | 0.0400 | 41.7256       | 1.0566 | 0.2200 | 8      | 0.71             | 1%             | 0    |
| 002.11      | Protein, NIR                          | 178      | 43.4000  | 0.4000 | 41.7256       | 1.0566 | 0.2200 | 8      | 1.58             | 2%             | 0    |
| 002.99      | Protein, Miscellaneous                | 643      | 43.1250  | 0.4900 | 43.9200       | 1.1243 | 0.3000 | 2      | -0.71            | 1%             | 0    |
| 002.99      | Protein, Miscellaneous                | 681      | 44.7150  | 0.1100 | 43.9200       | 1.1243 | 0.3000 | 2      | 0.71             | 1%             | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 867      | 1.7700   | 0.0400 | 3.2166        | 0.6493 | 0.1267 | 19     | -2.23            | 22%            | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 106      | 2.5700   | 0.0200 | 3.2166        | 0.6493 | 0.1267 | 19     | -1.00            | 10%            | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 616      | 2.5850   | 0.0700 | 3.2166        | 0.6493 | 0.1267 | 19     | -0.97            | 10%            | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 39       | 2.6420   | 0.0040 | 3.2166        | 0.6493 | 0.1267 | 19     | -0.88            | 9%             | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 345      | 2.7500   | 0.1000 | 3.2166        | 0.6493 | 0.1267 | 19     | -0.72            | 7%             | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 512      | 2.8905   | 0.1770 | 3.2166        | 0.6493 | 0.1267 | 19     | -0.50            | 5%             | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 26       | 2.9400   | 0.0000 | 3.2166        | 0.6493 | 0.1267 | 19     | -0.43            | 4%             | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 563      | 2.9931   | 0.1769 | 3.2166        | 0.6493 | 0.1267 | 19     | -0.34            | 3%             | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 175      | 3.0100   | 0.0600 | 3.2166        | 0.6493 | 0.1267 | 19     | -0.32            | 3%             | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 194      | 3.0100   | 0.0400 | 3.2166        | 0.6493 | 0.1267 | 19     | -0.32            | 3%             | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 615      | 3.1550   | 0.2100 | 3.2166        | 0.6493 | 0.1267 | 19     | -0.09            | 1%             | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 32       | 3.1600   | 0.0200 | 3.2166        | 0.6493 | 0.1267 | 19     | -0.09            | 1%             | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 152      | 3.5000   | 0.0000 | 3.2166        | 0.6493 | 0.1267 | 19     | 0.44             | 4%             | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 596      | 3.8900   | 0.0600 | 3.2166        | 0.6493 | 0.1267 | 19     | 1.04             | 10%            | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 848      | 4.0150   | 0.0700 | 3.2166        | 0.6493 | 0.1267 | 19     | 1.23             | 12%            | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 354      | 4.5950   | 0.0700 | 3.2166        | 0.6493 | 0.1267 | 19     | 2.12             | 21%            | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 139      | 4.8750   | 0.5300 | 3.2166        | 0.6493 | 0.1267 | 19     | 2.55             | 26%            | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 179      | 6.6400   | 0.2000 | 3.2166        | 0.6493 | 0.1267 | 19     | 5.27             | 53%            | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 65       | 6.7050   | 0.5600 | 3.2166        | 0.6493 | 0.1267 | 19     | 5.37             | 54%            | 0    |
| 003.00      | Fat, Eth Ext., Direct                 | 876      | 3.5850   | 1.2300 | 3.2166        | 0.6493 | 0.1267 | 19     | 0.57             | 6%             | 1    |
| 003.01      | Fat, Ind Eth Ext (13th ed.), Indirect | 208      | 2.5900   | 0.0400 | 2.7975        | 0.2934 | 0.4750 | 2      | -0.71            | 4%             | 0    |
| 003.01      | Fat, Ind Eth Ext (13th ed.), Indirect | 504      | 3.0050   | 0.9100 | 2.7975        | 0.2934 | 0.4750 | 2      | 0.71             | 4%             | 0    |
| 003.06      | Fat, Pet Ether                        | 647      | 1.2100   | 0.0200 | 2.6069        | 0.1599 | 0.0589 | 18     | -8.73            | 27%            | 0    |
| 003.06      | Fat, Pet Ether                        | 3        | 2.0400   | 0.2200 | 2.6069        | 0.1599 | 0.0589 | 18     | -3.54            | 11%            | 0    |
| 003.06      | Fat, Pet Ether                        | 689      | 2.3500   | 0.1000 | 2.6069        | 0.1599 | 0.0589 | 18     | -1.61            | 5%             | 0    |

| Method Code | Analyte Name and Method | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                         |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 003.06      | Fat, Pet Ether          | 731      | 2.3900   | 0.0200 | 2.6069        | 0.1599 | 0.0589 | 18     | -1.36            | 4%             | 0    |
| 003.06      | Fat, Pet Ether          | 148      | 2.5100   | 0.0200 | 2.6069        | 0.1599 | 0.0589 | 18     | -0.61            | 2%             | 0    |
| 003.06      | Fat, Pet Ether          | 849      | 2.5450   | 0.0100 | 2.6069        | 0.1599 | 0.0589 | 18     | -0.39            | 1%             | 0    |
| 003.06      | Fat, Pet Ether          | 169      | 2.5500   | 0.1200 | 2.6069        | 0.1599 | 0.0589 | 18     | -0.36            | 1%             | 0    |
| 003.06      | Fat, Pet Ether          | 294      | 2.5600   | 0.0800 | 2.6069        | 0.1599 | 0.0589 | 18     | -0.29            | 1%             | 0    |
| 003.06      | Fat, Pet Ether          | 425      | 2.5800   | 0.0200 | 2.6069        | 0.1599 | 0.0589 | 18     | -0.17            | 1%             | 0    |
| 003.06      | Fat, Pet Ether          | 871      | 2.6400   | 0.0400 | 2.6069        | 0.1599 | 0.0589 | 18     | 0.21             | 1%             | 0    |
| 003.06      | Fat, Pet Ether          | 511      | 2.6450   | 0.0300 | 2.6069        | 0.1599 | 0.0589 | 18     | 0.24             | 1%             | 0    |
| 003.06      | Fat, Pet Ether          | 354      | 2.6550   | 0.0100 | 2.6069        | 0.1599 | 0.0589 | 18     | 0.30             | 1%             | 0    |
| 003.06      | Fat, Pet Ether          | 199      | 2.6750   | 0.0100 | 2.6069        | 0.1599 | 0.0589 | 18     | 0.43             | 1%             | 0    |
| 003.06      | Fat, Pet Ether          | 669      | 2.6850   | 0.0300 | 2.6069        | 0.1599 | 0.0589 | 18     | 0.49             | 1%             | 0    |
| 003.06      | Fat, Pet Ether          | 552      | 2.9450   | 0.0500 | 2.6069        | 0.1599 | 0.0589 | 18     | 2.11             | 6%             | 0    |
| 003.06      | Fat, Pet Ether          | 83       | 3.1150   | 0.1700 | 2.6069        | 0.1599 | 0.0589 | 18     | 3.18             | 10%            | 0    |
| 003.06      | Fat, Pet Ether          | 682      | 3.2000   | 0.0400 | 2.6069        | 0.1599 | 0.0589 | 18     | 3.71             | 11%            | 0    |
| 003.06      | Fat, Pet Ether          | 164      | 3.5650   | 0.0700 | 2.6069        | 0.1599 | 0.0589 | 18     | 5.99             | 18%            | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 27       | 2.6120   | 0.0440 | 3.2991        | 0.5704 | 0.1018 | 25     | -1.20            | 10%            | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 675      | 2.7050   | 0.0300 | 3.2991        | 0.5704 | 0.1018 | 25     | -1.04            | 9%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 505      | 2.7200   | 0.0400 | 3.2991        | 0.5704 | 0.1018 | 25     | -1.02            | 9%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 653      | 2.7350   | 0.0100 | 3.2991        | 0.5704 | 0.1018 | 25     | -0.99            | 9%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 554      | 2.7700   | 0.1200 | 3.2991        | 0.5704 | 0.1018 | 25     | -0.93            | 8%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 121      | 2.7745   | 0.1050 | 3.2991        | 0.5704 | 0.1018 | 25     | -0.92            | 8%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 33       | 2.8950   | 0.0100 | 3.2991        | 0.5704 | 0.1018 | 25     | -0.71            | 6%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 226      | 2.9000   | 0.2000 | 3.2991        | 0.5704 | 0.1018 | 25     | -0.70            | 6%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 13       | 2.9450   | 0.0300 | 3.2991        | 0.5704 | 0.1018 | 25     | -0.62            | 5%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 263      | 2.9483   | 0.0034 | 3.2991        | 0.5704 | 0.1018 | 25     | -0.62            | 5%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 98       | 3.0400   | 0.1200 | 3.2991        | 0.5704 | 0.1018 | 25     | -0.45            | 4%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 358      | 3.0600   | 0.2200 | 3.2991        | 0.5704 | 0.1018 | 25     | -0.42            | 4%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 510      | 3.1000   | 0.2000 | 3.2991        | 0.5704 | 0.1018 | 25     | -0.35            | 3%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 353      | 3.2400   | 0.0000 | 3.2991        | 0.5704 | 0.1018 | 25     | -0.10            | 1%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 4        | 3.5400   | 0.3400 | 3.2991        | 0.5704 | 0.1018 | 25     | 0.42             | 4%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 38       | 3.5650   | 0.1100 | 3.2991        | 0.5704 | 0.1018 | 25     | 0.47             | 4%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 723      | 3.6450   | 0.0700 | 3.2991        | 0.5704 | 0.1018 | 25     | 0.61             | 5%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 849      | 3.7200   | 0.0200 | 3.2991        | 0.5704 | 0.1018 | 25     | 0.74             | 6%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 722      | 3.8431   | 0.0315 | 3.2991        | 0.5704 | 0.1018 | 25     | 0.95             | 8%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 2        | 3.8700   | 0.2800 | 3.2991        | 0.5704 | 0.1018 | 25     | 1.00             | 9%             | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 590      | 3.9350   | 0.1300 | 3.2991        | 0.5704 | 0.1018 | 25     | 1.11             | 10%            | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 354      | 4.0650   | 0.0700 | 3.2991        | 0.5704 | 0.1018 | 25     | 1.34             | 12%            | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 350      | 4.4675   | 0.0530 | 3.2991        | 0.5704 | 0.1018 | 25     | 2.05             | 18%            | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 651      | 4.7525   | 0.2510 | 3.2991        | 0.5704 | 0.1018 | 25     | 2.55             | 22%            | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 620      | 5.0043   | 0.0573 | 3.2991        | 0.5704 | 0.1018 | 25     | 2.99             | 26%            | 0    |
| 003.09      | Fat, Soxtec, Eth Ext    | 656      | 3.4900   | 0.5000 | 3.2991        | 0.5704 | 0.1018 | 25     | 0.33             | 3%             | 1    |
| 003.10      | Fat, Soxtec, Pet Ether  | 609      | 1.2050   | 0.1500 | 2.5765        | 0.2004 | 0.0853 | 30     | -6.84            | 27%            | 0    |

| Method Code | Analyte Name and Method  | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|--------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                          |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 003.10      | Fat, Soxtec, Pet Ether   | 553      | 2.2200   | 0.1400 | 2.5765        | 0.2004 | 0.0853 | 30     | -1.78            | 7%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 242      | 2.2800   | 0.0200 | 2.5765        | 0.2004 | 0.0853 | 30     | -1.48            | 6%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 98       | 2.3300   | 0.1400 | 2.5765        | 0.2004 | 0.0853 | 30     | -1.23            | 5%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 619      | 2.3400   | 0.0200 | 2.5765        | 0.2004 | 0.0853 | 30     | -1.18            | 5%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 89       | 2.3850   | 0.0100 | 2.5765        | 0.2004 | 0.0853 | 30     | -0.96            | 4%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 868      | 2.3900   | 0.2400 | 2.5765        | 0.2004 | 0.0853 | 30     | -0.93            | 4%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 51       | 2.4850   | 0.0500 | 2.5765        | 0.2004 | 0.0853 | 30     | -0.46            | 2%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 695      | 2.5000   | 0.0600 | 2.5765        | 0.2004 | 0.0853 | 30     | -0.38            | 1%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 100      | 2.5200   | 0.1200 | 2.5765        | 0.2004 | 0.0853 | 30     | -0.28            | 1%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 34       | 2.5400   | 0.0000 | 2.5765        | 0.2004 | 0.0853 | 30     | -0.18            | 1%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 305      | 2.5450   | 0.0900 | 2.5765        | 0.2004 | 0.0853 | 30     | -0.16            | 1%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 160      | 2.5465   | 0.1790 | 2.5765        | 0.2004 | 0.0853 | 30     | -0.15            | 1%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 42       | 2.5550   | 0.0900 | 2.5765        | 0.2004 | 0.0853 | 30     | -0.11            | 0%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 45       | 2.5700   | 0.0800 | 2.5765        | 0.2004 | 0.0853 | 30     | -0.03            | 0%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 202      | 2.5750   | 0.0100 | 2.5765        | 0.2004 | 0.0853 | 30     | -0.01            | 0%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 119      | 2.6100   | 0.0400 | 2.5765        | 0.2004 | 0.0853 | 30     | 0.17             | 1%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 629      | 2.6150   | 0.0100 | 2.5765        | 0.2004 | 0.0853 | 30     | 0.19             | 1%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 618      | 2.6265   | 0.0690 | 2.5765        | 0.2004 | 0.0853 | 30     | 0.25             | 1%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 689      | 2.6500   | 0.1000 | 2.5765        | 0.2004 | 0.0853 | 30     | 0.37             | 1%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 354      | 2.6700   | 0.0000 | 2.5765        | 0.2004 | 0.0853 | 30     | 0.47             | 2%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 178      | 2.7000   | 0.2000 | 2.5765        | 0.2004 | 0.0853 | 30     | 0.62             | 2%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 693      | 2.7150   | 0.0300 | 2.5765        | 0.2004 | 0.0853 | 30     | 0.69             | 3%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 62       | 2.7155   | 0.1770 | 2.5765        | 0.2004 | 0.0853 | 30     | 0.69             | 3%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 233      | 2.7300   | 0.0800 | 2.5765        | 0.2004 | 0.0853 | 30     | 0.77             | 3%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 298      | 2.7500   | 0.0200 | 2.5765        | 0.2004 | 0.0853 | 30     | 0.87             | 3%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 679      | 2.8150   | 0.0700 | 2.5765        | 0.2004 | 0.0853 | 30     | 1.19             | 5%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 676      | 2.8385   | 0.2130 | 2.5765        | 0.2004 | 0.0853 | 30     | 1.31             | 5%             | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 623      | 3.3594   | 0.0109 | 2.5765        | 0.2004 | 0.0853 | 30     | 3.91             | 15%            | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 613      | 3.9300   | 0.1400 | 2.5765        | 0.2004 | 0.0853 | 30     | 6.75             | 26%            | 0    |
| 003.10      | Fat, Soxtec, Pet Ether   | 366      | 2.5000   | 0.4000 | 2.5765        | 0.2004 | 0.0853 | 30     | -0.38            | 1%             | 1    |
| 003.11      | Fat, NIR                 | 11       | 1.6000   | 0.0000 | 1.8499        | 0.1297 | 0.0243 | 7      | -1.93            | 7%             | 0    |
| 003.11      | Fat, NIR                 | 631      | 1.6600   | 0.0200 | 1.8499        | 0.1297 | 0.0243 | 7      | -1.46            | 5%             | 0    |
| 003.11      | Fat, NIR                 | 178      | 1.8000   | 0.0000 | 1.8499        | 0.1297 | 0.0243 | 7      | -0.38            | 1%             | 0    |
| 003.11      | Fat, NIR                 | 867      | 1.8700   | 0.0000 | 1.8499        | 0.1297 | 0.0243 | 7      | 0.16             | 1%             | 0    |
| 003.11      | Fat, NIR                 | 679      | 1.9100   | 0.0800 | 1.8499        | 0.1297 | 0.0243 | 7      | 0.46             | 2%             | 0    |
| 003.11      | Fat, NIR                 | 713      | 1.9150   | 0.0100 | 1.8499        | 0.1297 | 0.0243 | 7      | 0.50             | 2%             | 0    |
| 003.11      | Fat, NIR                 | 731      | 2.1300   | 0.0600 | 1.8499        | 0.1297 | 0.0243 | 7      | 2.16             | 8%             | 0    |
| 003.11      | Fat, NIR                 | 32       | 3.1000   | 0.2000 | 1.8499        | 0.1297 | 0.0243 | 7      | 9.64             | 34%            | 1    |
| 003.12      | Fat, Hexane Ext          | 171      | 2.5050   | 0.1100 | 2.9317        | 0.4202 | 0.0567 | 3      | -1.02            | 7%             | 0    |
| 003.12      | Fat, Hexane Ext          | 631      | 2.9450   | 0.0100 | 2.9317        | 0.4202 | 0.0567 | 3      | 0.03             | 0%             | 0    |
| 003.12      | Fat, Hexane Ext          | 670      | 3.3450   | 0.0500 | 2.9317        | 0.4202 | 0.0567 | 3      | 0.98             | 7%             | 0    |
| 003.13      | Fat, Soxtec, Hexane Ext. | 660      | 2.3500   | 0.1600 | 2.6865        | 0.2791 | 0.0720 | 6      | -1.21            | 6%             | 0    |

| Method Code | Analyte Name and Method    | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|----------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                            |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 003.13      | Fat, Soxtec, Hexane Ext.   | 28       | 2.4850   | 0.0300 | 2.6865        | 0.2791 | 0.0720 | 6      | -0.72            | 4%             | 0    |
| 003.13      | Fat, Soxtec, Hexane Ext.   | 205      | 2.6490   | 0.0520 | 2.6865        | 0.2791 | 0.0720 | 6      | -0.13            | 1%             | 0    |
| 003.13      | Fat, Soxtec, Hexane Ext.   | 187      | 2.7550   | 0.0100 | 2.6865        | 0.2791 | 0.0720 | 6      | 0.25             | 1%             | 0    |
| 003.13      | Fat, Soxtec, Hexane Ext.   | 646      | 2.8550   | 0.1100 | 2.6865        | 0.2791 | 0.0720 | 6      | 0.60             | 3%             | 0    |
| 003.13      | Fat, Soxtec, Hexane Ext.   | 11       | 3.0250   | 0.0700 | 2.6865        | 0.2791 | 0.0720 | 6      | 1.21             | 6%             | 0    |
| 003.14      | Fat, Ankom                 | 853      | 2.3900   | 0.3800 | 2.9517        | 0.4157 | 0.1274 | 21     | -1.35            | 10%            | 0    |
| 003.14      | Fat, Ankom                 | 550      | 2.4650   | 0.3500 | 2.9517        | 0.4157 | 0.1274 | 21     | -1.17            | 8%             | 0    |
| 003.14      | Fat, Ankom                 | 175      | 2.4750   | 0.0300 | 2.9517        | 0.4157 | 0.1274 | 21     | -1.15            | 8%             | 0    |
| 003.14      | Fat, Ankom                 | 574      | 2.5950   | 0.3700 | 2.9517        | 0.4157 | 0.1274 | 21     | -0.86            | 6%             | 0    |
| 003.14      | Fat, Ankom                 | 144      | 2.6250   | 0.0700 | 2.9517        | 0.4157 | 0.1274 | 21     | -0.79            | 6%             | 0    |
| 003.14      | Fat, Ankom                 | 581      | 2.6600   | 0.2200 | 2.9517        | 0.4157 | 0.1274 | 21     | -0.70            | 5%             | 0    |
| 003.14      | Fat, Ankom                 | 278      | 2.7000   | 0.0000 | 2.9517        | 0.4157 | 0.1274 | 21     | -0.61            | 4%             | 0    |
| 003.14      | Fat, Ankom                 | 299      | 2.7640   | 0.0500 | 2.9517        | 0.4157 | 0.1274 | 21     | -0.45            | 3%             | 0    |
| 003.14      | Fat, Ankom                 | 520      | 2.7750   | 0.1100 | 2.9517        | 0.4157 | 0.1274 | 21     | -0.43            | 3%             | 0    |
| 003.14      | Fat, Ankom                 | 598      | 2.8200   | 0.0600 | 2.9517        | 0.4157 | 0.1274 | 21     | -0.32            | 2%             | 0    |
| 003.14      | Fat, Ankom                 | 108      | 2.8600   | 0.0400 | 2.9517        | 0.4157 | 0.1274 | 21     | -0.22            | 2%             | 0    |
| 003.14      | Fat, Ankom                 | 686      | 3.0450   | 0.1900 | 2.9517        | 0.4157 | 0.1274 | 21     | 0.22             | 2%             | 0    |
| 003.14      | Fat, Ankom                 | 265      | 3.0500   | 0.3000 | 2.9517        | 0.4157 | 0.1274 | 21     | 0.24             | 2%             | 0    |
| 003.14      | Fat, Ankom                 | 19       | 3.0550   | 0.0100 | 2.9517        | 0.4157 | 0.1274 | 21     | 0.25             | 2%             | 0    |
| 003.14      | Fat, Ankom                 | 49       | 3.1600   | 0.1200 | 2.9517        | 0.4157 | 0.1274 | 21     | 0.50             | 4%             | 0    |
| 003.14      | Fat, Ankom                 | 229      | 3.3000   | 0.0400 | 2.9517        | 0.4157 | 0.1274 | 21     | 0.84             | 6%             | 0    |
| 003.14      | Fat, Ankom                 | 413      | 3.7500   | 0.1000 | 2.9517        | 0.4157 | 0.1274 | 21     | 1.92             | 14%            | 0    |
| 003.14      | Fat, Ankom                 | 407      | 4.1200   | 0.0800 | 2.9517        | 0.4157 | 0.1274 | 21     | 2.81             | 20%            | 0    |
| 003.14      | Fat, Ankom                 | 190      | 5.2750   | 0.1300 | 2.9517        | 0.4157 | 0.1274 | 21     | 5.59             | 39%            | 0    |
| 003.14      | Fat, Ankom                 | 726      | 5.3505   | 0.0150 | 2.9517        | 0.4157 | 0.1274 | 21     | 5.77             | 41%            | 0    |
| 003.14      | Fat, Ankom                 | 529      | 8.4650   | 0.0100 | 2.9517        | 0.4157 | 0.1274 | 21     | 13.26            | 93%            | 0    |
| 003.99      | Fat, Miscellaneous         | 861      | 2.4750   | 0.0300 | 3.1349        | 0.4883 | 0.0830 | 10     | -1.35            | 11%            | 0    |
| 003.99      | Fat, Miscellaneous         | 536      | 2.6350   | 0.1300 | 3.1349        | 0.4883 | 0.0830 | 10     | -1.02            | 8%             | 0    |
| 003.99      | Fat, Miscellaneous         | 47       | 2.8000   | 0.0000 | 3.1349        | 0.4883 | 0.0830 | 10     | -0.69            | 5%             | 0    |
| 003.99      | Fat, Miscellaneous         | 681      | 3.0100   | 0.0200 | 3.1349        | 0.4883 | 0.0830 | 10     | -0.26            | 2%             | 0    |
| 003.99      | Fat, Miscellaneous         | 852      | 3.0650   | 0.1300 | 3.1349        | 0.4883 | 0.0830 | 10     | -0.14            | 1%             | 0    |
| 003.99      | Fat, Miscellaneous         | 738      | 3.1950   | 0.0500 | 3.1349        | 0.4883 | 0.0830 | 10     | 0.12             | 1%             | 0    |
| 003.99      | Fat, Miscellaneous         | 787      | 3.2700   | 0.0200 | 3.1349        | 0.4883 | 0.0830 | 10     | 0.28             | 2%             | 0    |
| 003.99      | Fat, Miscellaneous         | 630      | 3.4550   | 0.0300 | 3.1349        | 0.4883 | 0.0830 | 10     | 0.66             | 5%             | 0    |
| 003.99      | Fat, Miscellaneous         | 546      | 3.5850   | 0.3100 | 3.1349        | 0.4883 | 0.0830 | 10     | 0.92             | 7%             | 0    |
| 003.99      | Fat, Miscellaneous         | 712      | 4.0050   | 0.1100 | 3.1349        | 0.4883 | 0.0830 | 10     | 1.78             | 14%            | 0    |
| 003.99      | Fat, Miscellaneous         | 737      | 2.8400   | 0.0000 | 3.1349        | 0.4883 | 0.0830 | 10     | -0.60            | 5%             | 8    |
| 003.99      | Fat, Miscellaneous         | 786      | 2.9850   | 0.1900 | 3.1349        | 0.4883 | 0.0830 | 10     | -0.31            | 2%             | 8    |
| 003.99      | Fat, Miscellaneous         | 788      | 3.4550   | 0.1900 | 3.1349        | 0.4883 | 0.0830 | 10     | 0.66             | 5%             | 8    |
| 004.00      | Fiber, Crude Asbestos Free | 871      | 5.5550   | 0.0100 | 7.2258        | 0.6244 | 0.1562 | 24     | -2.68            | 12%            | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 39       | 5.7785   | 0.0670 | 7.2258        | 0.6244 | 0.1562 | 24     | -2.32            | 10%            | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 510      | 6.5500   | 0.1000 | 7.2258        | 0.6244 | 0.1562 | 24     | -1.08            | 5%             | 0    |

| Method Code | Analyte Name and Method    | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|----------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                            |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 004.00      | Fiber, Crude Asbestos Free | 726      | 6.6740   | 0.0380 | 7.2258        | 0.6244 | 0.1562 | 24     | -0.88            | 4%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 169      | 6.6900   | 0.0400 | 7.2258        | 0.6244 | 0.1562 | 24     | -0.86            | 4%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 194      | 6.7350   | 0.0300 | 7.2258        | 0.6244 | 0.1562 | 24     | -0.79            | 3%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 504      | 6.8250   | 0.2100 | 7.2258        | 0.6244 | 0.1562 | 24     | -0.64            | 3%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 199      | 6.8850   | 0.1900 | 7.2258        | 0.6244 | 0.1562 | 24     | -0.55            | 2%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 354      | 6.9500   | 0.0600 | 7.2258        | 0.6244 | 0.1562 | 24     | -0.44            | 2%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 353      | 7.0400   | 0.2200 | 7.2258        | 0.6244 | 0.1562 | 24     | -0.30            | 1%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 164      | 7.1500   | 0.1000 | 7.2258        | 0.6244 | 0.1562 | 24     | -0.12            | 1%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 425      | 7.1500   | 0.1000 | 7.2258        | 0.6244 | 0.1562 | 24     | -0.12            | 1%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 171      | 7.2050   | 0.2100 | 7.2258        | 0.6244 | 0.1562 | 24     | -0.03            | 0%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 298      | 7.2300   | 0.0200 | 7.2258        | 0.6244 | 0.1562 | 24     | 0.01             | 0%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 175      | 7.4550   | 0.3100 | 7.2258        | 0.6244 | 0.1562 | 24     | 0.37             | 2%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 681      | 7.5150   | 0.0300 | 7.2258        | 0.6244 | 0.1562 | 24     | 0.46             | 2%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 345      | 7.5500   | 0.1000 | 7.2258        | 0.6244 | 0.1562 | 24     | 0.52             | 2%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 647      | 7.6700   | 0.3200 | 7.2258        | 0.6244 | 0.1562 | 24     | 0.71             | 3%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 695      | 7.7450   | 0.3900 | 7.2258        | 0.6244 | 0.1562 | 24     | 0.83             | 4%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 208      | 7.7550   | 0.0300 | 7.2258        | 0.6244 | 0.1562 | 24     | 0.85             | 4%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 563      | 7.9200   | 0.1826 | 7.2258        | 0.6244 | 0.1562 | 24     | 1.11             | 5%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 876      | 7.9350   | 0.7900 | 7.2258        | 0.6244 | 0.1562 | 24     | 1.14             | 5%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 511      | 8.0500   | 0.1000 | 7.2258        | 0.6244 | 0.1562 | 24     | 1.32             | 6%             | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 226      | 9.1500   | 0.1000 | 7.2258        | 0.6244 | 0.1562 | 24     | 3.08             | 13%            | 0    |
| 004.00      | Fiber, Crude Asbestos Free | 596      | 7.8000   | 1.0000 | 7.2258        | 0.6244 | 0.1562 | 24     | 0.92             | 4%             | 1    |
| 004.01      | Fiber, Sing Filt           | 45       | 8.5850   | 0.1300 | 8.6675        | 0.1167 | 0.5150 | 2      | -0.71            | 0%             | 0    |
| 004.01      | Fiber, Sing Filt           | 366      | 8.7500   | 0.9000 | 8.6675        | 0.1167 | 0.5150 | 2      | 0.71             | 0%             | 0    |
| 004.03      | Fiber, Fritted Glass       | 619      | 7.1100   | 0.2200 | 7.5800        | 0.7127 | 0.3067 | 3      | -0.66            | 3%             | 0    |
| 004.03      | Fiber, Fritted Glass       | 626      | 7.2300   | 0.2000 | 7.5800        | 0.7127 | 0.3067 | 3      | -0.49            | 2%             | 0    |
| 004.03      | Fiber, Fritted Glass       | 693      | 8.4000   | 0.5000 | 7.5800        | 0.7127 | 0.3067 | 3      | 1.15             | 5%             | 0    |
| 004.06      | Fiber, Fibertec            | 731      | 6.3800   | 0.1600 | 7.4538        | 0.4697 | 0.1548 | 26     | -2.29            | 7%             | 0    |
| 004.06      | Fiber, Fibertec            | 848      | 6.8350   | 0.0500 | 7.4538        | 0.4697 | 0.1548 | 26     | -1.32            | 4%             | 0    |
| 004.06      | Fiber, Fibertec            | 552      | 6.8450   | 0.1700 | 7.4538        | 0.4697 | 0.1548 | 26     | -1.30            | 4%             | 0    |
| 004.06      | Fiber, Fibertec            | 610      | 7.0000   | 0.0000 | 7.4538        | 0.4697 | 0.1548 | 26     | -0.97            | 3%             | 0    |
| 004.06      | Fiber, Fibertec            | 590      | 7.0100   | 0.0200 | 7.4538        | 0.4697 | 0.1548 | 26     | -0.94            | 3%             | 0    |
| 004.06      | Fiber, Fibertec            | 653      | 7.0650   | 0.0500 | 7.4538        | 0.4697 | 0.1548 | 26     | -0.83            | 3%             | 0    |
| 004.06      | Fiber, Fibertec            | 98       | 7.1550   | 0.2300 | 7.4538        | 0.4697 | 0.1548 | 26     | -0.64            | 2%             | 0    |
| 004.06      | Fiber, Fibertec            | 350      | 7.2645   | 0.0310 | 7.4538        | 0.4697 | 0.1548 | 26     | -0.40            | 1%             | 0    |
| 004.06      | Fiber, Fibertec            | 656      | 7.3200   | 0.2000 | 7.4538        | 0.4697 | 0.1548 | 26     | -0.28            | 1%             | 0    |
| 004.06      | Fiber, Fibertec            | 723      | 7.3200   | 0.0400 | 7.4538        | 0.4697 | 0.1548 | 26     | -0.28            | 1%             | 0    |
| 004.06      | Fiber, Fibertec            | 675      | 7.3600   | 0.0200 | 7.4538        | 0.4697 | 0.1548 | 26     | -0.20            | 1%             | 0    |
| 004.06      | Fiber, Fibertec            | 512      | 7.3790   | 0.1820 | 7.4538        | 0.4697 | 0.1548 | 26     | -0.16            | 1%             | 0    |
| 004.06      | Fiber, Fibertec            | 868      | 7.4050   | 0.1100 | 7.4538        | 0.4697 | 0.1548 | 26     | -0.10            | 0%             | 0    |
| 004.06      | Fiber, Fibertec            | 205      | 7.4100   | 0.1000 | 7.4538        | 0.4697 | 0.1548 | 26     | -0.09            | 0%             | 0    |
| 004.06      | Fiber, Fibertec            | 178      | 7.4500   | 0.5000 | 7.4538        | 0.4697 | 0.1548 | 26     | -0.01            | 0%             | 0    |

| Method Code | Analyte Name and Method | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                         |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 004.06      | Fiber, Fibertec         | 38       | 7.4700   | 0.0200 | 7.4538        | 0.4697 | 0.1548 | 26     | <b>0.03</b>      | 0%             | 0    |
| 004.06      | Fiber, Fibertec         | 620      | 7.4729   | 0.4358 | 7.4538        | 0.4697 | 0.1548 | 26     | <b>0.04</b>      | 0%             | 0    |
| 004.06      | Fiber, Fibertec         | 689      | 7.5500   | 0.1000 | 7.4538        | 0.4697 | 0.1548 | 26     | <b>0.20</b>      | 1%             | 0    |
| 004.06      | Fiber, Fibertec         | 354      | 7.7100   | 0.1800 | 7.4538        | 0.4697 | 0.1548 | 26     | <b>0.55</b>      | 2%             | 0    |
| 004.06      | Fiber, Fibertec         | 845      | 7.7150   | 0.2900 | 7.4538        | 0.4697 | 0.1548 | 26     | <b>0.56</b>      | 2%             | 0    |
| 004.06      | Fiber, Fibertec         | 27       | 7.9825   | 0.2350 | 7.4538        | 0.4697 | 0.1548 | 26     | <b>1.13</b>      | 4%             | 0    |
| 004.06      | Fiber, Fibertec         | 722      | 7.9862   | 0.1412 | 7.4538        | 0.4697 | 0.1548 | 26     | <b>1.13</b>      | 4%             | 0    |
| 004.06      | Fiber, Fibertec         | 676      | 8.2350   | 0.1700 | 7.4538        | 0.4697 | 0.1548 | 26     | <b>1.66</b>      | 5%             | 0    |
| 004.06      | Fiber, Fibertec         | 609      | 8.2650   | 0.4500 | 7.4538        | 0.4697 | 0.1548 | 26     | <b>1.73</b>      | 5%             | 0    |
| 004.06      | Fiber, Fibertec         | 866      | 8.3800   | 0.0400 | 7.4538        | 0.4697 | 0.1548 | 26     | <b>1.97</b>      | 6%             | 0    |
| 004.06      | Fiber, Fibertec         | 613      | 10.0700  | 0.1000 | 7.4538        | 0.4697 | 0.1548 | 26     | <b>5.57</b>      | 18%            | 0    |
| 004.07      | Fiber, ANKOM            | 529      | 2.8400   | 0.0000 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-4.08</b>     | 32%            | 0    |
| 004.07      | Fiber, ANKOM            | 646      | 6.0400   | 0.2000 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-1.43</b>     | 11%            | 0    |
| 004.07      | Fiber, ANKOM            | 160      | 6.1235   | 0.5270 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-1.36</b>     | 11%            | 0    |
| 004.07      | Fiber, ANKOM            | 505      | 6.2100   | 0.1000 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-1.29</b>     | 10%            | 0    |
| 004.07      | Fiber, ANKOM            | 413      | 6.4000   | 0.4000 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-1.13</b>     | 9%             | 0    |
| 004.07      | Fiber, ANKOM            | 13       | 6.5400   | 0.0200 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-1.01</b>     | 8%             | 0    |
| 004.07      | Fiber, ANKOM            | 242      | 6.6250   | 0.1900 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-0.94</b>     | 7%             | 0    |
| 004.07      | Fiber, ANKOM            | 3        | 6.6450   | 0.6500 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-0.93</b>     | 7%             | 0    |
| 004.07      | Fiber, ANKOM            | 98       | 6.7850   | 0.1900 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-0.81</b>     | 6%             | 0    |
| 004.07      | Fiber, ANKOM            | 682      | 6.8500   | 0.3000 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-0.76</b>     | 6%             | 0    |
| 004.07      | Fiber, ANKOM            | 100      | 6.8850   | 0.3700 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-0.73</b>     | 6%             | 0    |
| 004.07      | Fiber, ANKOM            | 278      | 7.0500   | 0.1000 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-0.59</b>     | 5%             | 0    |
| 004.07      | Fiber, ANKOM            | 553      | 7.1000   | 0.4800 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-0.55</b>     | 4%             | 0    |
| 004.07      | Fiber, ANKOM            | 19       | 7.1550   | 0.1300 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-0.50</b>     | 4%             | 0    |
| 004.07      | Fiber, ANKOM            | 26       | 7.1550   | 0.0500 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-0.50</b>     | 4%             | 0    |
| 004.07      | Fiber, ANKOM            | 643      | 7.3100   | 0.0800 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-0.38</b>     | 3%             | 0    |
| 004.07      | Fiber, ANKOM            | 28       | 7.5500   | 0.3000 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-0.18</b>     | 1%             | 0    |
| 004.07      | Fiber, ANKOM            | 581      | 7.6000   | 0.5000 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-0.14</b>     | 1%             | 0    |
| 004.07      | Fiber, ANKOM            | 4        | 7.6050   | 0.5900 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-0.13</b>     | 1%             | 0    |
| 004.07      | Fiber, ANKOM            | 35       | 7.6950   | 0.0300 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-0.06</b>     | 0%             | 0    |
| 004.07      | Fiber, ANKOM            | 708      | 7.7000   | 0.2400 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>-0.05</b>     | 0%             | 0    |
| 004.07      | Fiber, ANKOM            | 407      | 7.7700   | 0.2000 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>0.01</b>      | 0%             | 0    |
| 004.07      | Fiber, ANKOM            | 592      | 7.9395   | 0.0710 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>0.15</b>      | 1%             | 0    |
| 004.07      | Fiber, ANKOM            | 202      | 7.9450   | 1.1900 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>0.15</b>      | 1%             | 0    |
| 004.07      | Fiber, ANKOM            | 849      | 8.0200   | 0.2400 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>0.21</b>      | 2%             | 0    |
| 004.07      | Fiber, ANKOM            | 33       | 8.1000   | 0.2000 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>0.28</b>      | 2%             | 0    |
| 004.07      | Fiber, ANKOM            | 265      | 8.2000   | 1.0000 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>0.36</b>      | 3%             | 0    |
| 004.07      | Fiber, ANKOM            | 679      | 8.3500   | 0.0200 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>0.49</b>      | 4%             | 0    |
| 004.07      | Fiber, ANKOM            | 190      | 8.4050   | 0.0500 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>0.53</b>      | 4%             | 0    |
| 004.07      | Fiber, ANKOM            | 42       | 8.4450   | 0.9300 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>0.56</b>      | 4%             | 0    |
| 004.07      | Fiber, ANKOM            | 294      | 8.4450   | 0.1900 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>0.56</b>      | 4%             | 0    |

| Method Code | Analyte Name and Method | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                         |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 004.07      | Fiber, ANKOM            | 610      | 8.5000   | 0.0000 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>0.61</b>      | 5%             | 0    |
| 004.07      | Fiber, ANKOM            | 8        | 8.5650   | 0.3300 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>0.66</b>      | 5%             | 0    |
| 004.07      | Fiber, ANKOM            | 229      | 8.8000   | 0.0000 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>0.86</b>      | 7%             | 0    |
| 004.07      | Fiber, ANKOM            | 89       | 8.9600   | 0.0600 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>0.99</b>      | 8%             | 0    |
| 004.07      | Fiber, ANKOM            | 144      | 9.7700   | 0.0200 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>1.66</b>      | 13%            | 0    |
| 004.07      | Fiber, ANKOM            | 686      | 10.0150  | 0.1300 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>1.87</b>      | 15%            | 0    |
| 004.07      | Fiber, ANKOM            | 300      | 10.3500  | 1.5000 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>2.14</b>      | 17%            | 0    |
| 004.07      | Fiber, ANKOM            | 121      | 10.7485  | 0.1710 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>2.47</b>      | 19%            | 0    |
| 004.07      | Fiber, ANKOM            | 554      | 10.9500  | 0.3000 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>2.64</b>      | 21%            | 0    |
| 004.07      | Fiber, ANKOM            | 631      | 12.7050  | 0.8100 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>4.09</b>      | 32%            | 0    |
| 004.07      | Fiber, ANKOM            | 520      | 7.7800   | 2.2200 | 7.7634        | 1.2068 | 0.3136 | 41     | <b>0.01</b>      | 0%             | 1    |
| 004.11      | Fiber, NIR              | 32       | 8.1500   | 0.1000 | 10.0048       | 0.8243 | 0.1125 | 8      | <b>-2.25</b>     | 9%             | 0    |
| 004.11      | Fiber, NIR              | 11       | 8.8000   | 0.0000 | 10.0048       | 0.8243 | 0.1125 | 8      | <b>-1.46</b>     | 6%             | 0    |
| 004.11      | Fiber, NIR              | 713      | 9.8700   | 0.0200 | 10.0048       | 0.8243 | 0.1125 | 8      | <b>-0.16</b>     | 1%             | 0    |
| 004.11      | Fiber, NIR              | 679      | 9.9050   | 0.2700 | 10.0048       | 0.8243 | 0.1125 | 8      | <b>-0.12</b>     | 0%             | 0    |
| 004.11      | Fiber, NIR              | 631      | 10.2800  | 0.1400 | 10.0048       | 0.8243 | 0.1125 | 8      | <b>0.33</b>      | 1%             | 0    |
| 004.11      | Fiber, NIR              | 867      | 10.4700  | 0.0200 | 10.0048       | 0.8243 | 0.1125 | 8      | <b>0.56</b>      | 2%             | 0    |
| 004.11      | Fiber, NIR              | 731      | 10.7250  | 0.2500 | 10.0048       | 0.8243 | 0.1125 | 8      | <b>0.87</b>      | 4%             | 0    |
| 004.11      | Fiber, NIR              | 178      | 10.8500  | 0.1000 | 10.0048       | 0.8243 | 0.1125 | 8      | <b>1.03</b>      | 4%             | 0    |
| 004.99      | Fiber, Miscellaneous    | 598      | 6.2000   | 0.6200 | 7.7183        | 2.0923 | 0.3033 | 3      | <b>-0.73</b>     | 10%            | 0    |
| 004.99      | Fiber, Miscellaneous    | 629      | 6.8500   | 0.1000 | 7.7183        | 2.0923 | 0.3033 | 3      | <b>-0.42</b>     | 6%             | 0    |
| 004.99      | Fiber, Miscellaneous    | 867      | 10.1050  | 0.1900 | 7.7183        | 2.0923 | 0.3033 | 3      | <b>1.14</b>      | 15%            | 0    |
| 005.00      | Ash,                    | 119      | 17.3000  | 0.7200 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-3.00</b>     | 5%             | 0    |
| 005.00      | Ash,                    | 618      | 17.6763  | 0.0065 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-2.41</b>     | 4%             | 0    |
| 005.00      | Ash,                    | 65       | 17.6992  | 0.0517 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-2.38</b>     | 4%             | 0    |
| 005.00      | Ash,                    | 169      | 17.8350  | 0.0100 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-2.16</b>     | 4%             | 0    |
| 005.00      | Ash,                    | 616      | 17.8400  | 0.0600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-2.16</b>     | 4%             | 0    |
| 005.00      | Ash,                    | 596      | 17.8500  | 0.1000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-2.14</b>     | 4%             | 0    |
| 005.00      | Ash,                    | 425      | 17.8600  | 0.0600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-2.12</b>     | 4%             | 0    |
| 005.00      | Ash,                    | 776      | 17.9050  | 0.3900 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-2.05</b>     | 3%             | 0    |
| 005.00      | Ash,                    | 598      | 17.9450  | 0.0100 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.99</b>     | 3%             | 0    |
| 005.00      | Ash,                    | 194      | 17.9550  | 0.0300 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.97</b>     | 3%             | 0    |
| 005.00      | Ash,                    | 552      | 17.9900  | 0.1000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.92</b>     | 3%             | 0    |
| 005.00      | Ash,                    | 160      | 18.0115  | 0.1190 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.89</b>     | 3%             | 0    |
| 005.00      | Ash,                    | 550      | 18.0250  | 0.0100 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.86</b>     | 3%             | 0    |
| 005.00      | Ash,                    | 539      | 18.2100  | 0.2000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.57</b>     | 3%             | 0    |
| 005.00      | Ash,                    | 179      | 18.2250  | 0.0300 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.55</b>     | 3%             | 0    |
| 005.00      | Ash,                    | 49       | 18.2700  | 0.2400 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.48</b>     | 2%             | 0    |
| 005.00      | Ash,                    | 8        | 18.3850  | 0.0300 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.30</b>     | 2%             | 0    |
| 005.00      | Ash,                    | 623      | 18.3938  | 0.0792 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.29</b>     | 2%             | 0    |
| 005.00      | Ash,                    | 175      | 18.4000  | 0.0000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.28</b>     | 2%             | 0    |
| 005.00      | Ash,                    | 33       | 18.4500  | 0.3000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.20</b>     | 2%             | 0    |

| Method Code | Analyte Name and Method | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                         |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 005.00      | Ash,                    | 670      | 18.4500  | 0.1600 | 19.2128       | 0.6370 | 0.1684 | 108    | -1.20            | 2%             | 0    |
| 005.00      | Ash,                    | 541      | 18.5000  | 0.1600 | 19.2128       | 0.6370 | 0.1684 | 108    | -1.12            | 2%             | 0    |
| 005.00      | Ash,                    | 278      | 18.5600  | 0.2400 | 19.2128       | 0.6370 | 0.1684 | 108    | -1.02            | 2%             | 0    |
| 005.00      | Ash,                    | 817      | 18.6050  | 0.3500 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.95            | 2%             | 0    |
| 005.00      | Ash,                    | 750      | 18.6150  | 0.0500 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.94            | 2%             | 0    |
| 005.00      | Ash,                    | 658      | 18.6340  | 0.1760 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.91            | 2%             | 0    |
| 005.00      | Ash,                    | 407      | 18.7150  | 0.0300 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.78            | 1%             | 0    |
| 005.00      | Ash,                    | 811      | 18.7150  | 0.2900 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.78            | 1%             | 0    |
| 005.00      | Ash,                    | 144      | 18.7800  | 0.6200 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.68            | 1%             | 0    |
| 005.00      | Ash,                    | 613      | 18.7900  | 0.0400 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.66            | 1%             | 0    |
| 005.00      | Ash,                    | 845      | 18.7900  | 0.4400 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.66            | 1%             | 0    |
| 005.00      | Ash,                    | 735      | 18.8600  | 0.0600 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.55            | 1%             | 0    |
| 005.00      | Ash,                    | 27       | 18.8630  | 0.0620 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.55            | 1%             | 0    |
| 005.00      | Ash,                    | 798      | 18.8800  | 0.0600 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.52            | 1%             | 0    |
| 005.00      | Ash,                    | 205      | 18.8950  | 0.1300 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.50            | 1%             | 0    |
| 005.00      | Ash,                    | 89       | 18.9200  | 0.0000 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.46            | 1%             | 0    |
| 005.00      | Ash,                    | 108      | 18.9300  | 0.1200 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.44            | 1%             | 0    |
| 005.00      | Ash,                    | 34       | 18.9600  | 0.0000 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.40            | 1%             | 0    |
| 005.00      | Ash,                    | 178      | 19.0000  | 0.8000 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.33            | 1%             | 0    |
| 005.00      | Ash,                    | 242      | 19.0150  | 0.0100 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.31            | 1%             | 0    |
| 005.00      | Ash,                    | 26       | 19.1150  | 0.0300 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.15            | 0%             | 0    |
| 005.00      | Ash,                    | 675      | 19.1400  | 0.0800 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.11            | 0%             | 0    |
| 005.00      | Ash,                    | 853      | 19.1600  | 0.7200 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.08            | 0%             | 0    |
| 005.00      | Ash,                    | 761      | 19.1700  | 0.0600 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.07            | 0%             | 0    |
| 005.00      | Ash,                    | 656      | 19.2050  | 0.3300 | 19.2128       | 0.6370 | 0.1684 | 108    | -0.01            | 0%             | 0    |
| 005.00      | Ash,                    | 689      | 19.2100  | 0.0600 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.00             | 0%             | 0    |
| 005.00      | Ash,                    | 354      | 19.2450  | 0.0100 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.05             | 0%             | 0    |
| 005.00      | Ash,                    | 829      | 19.2450  | 0.1500 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.05             | 0%             | 0    |
| 005.00      | Ash,                    | 510      | 19.2650  | 0.0100 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.08             | 0%             | 0    |
| 005.00      | Ash,                    | 653      | 19.2700  | 0.1600 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.09             | 0%             | 0    |
| 005.00      | Ash,                    | 1        | 19.2950  | 0.4500 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.13             | 0%             | 0    |
| 005.00      | Ash,                    | 300      | 19.3000  | 0.4000 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.14             | 0%             | 0    |
| 005.00      | Ash,                    | 615      | 19.3100  | 0.5000 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.15             | 0%             | 0    |
| 005.00      | Ash,                    | 38       | 19.3150  | 0.0500 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.16             | 0%             | 0    |
| 005.00      | Ash,                    | 781      | 19.3150  | 0.0500 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.16             | 0%             | 0    |
| 005.00      | Ash,                    | 171      | 19.3200  | 0.0800 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.17             | 0%             | 0    |
| 005.00      | Ash,                    | 199      | 19.3350  | 0.1900 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.19             | 0%             | 0    |
| 005.00      | Ash,                    | 686      | 19.3550  | 0.0300 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.22             | 0%             | 0    |
| 005.00      | Ash,                    | 298      | 19.3700  | 0.0200 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.25             | 0%             | 0    |
| 005.00      | Ash,                    | 650      | 19.3800  | 0.0400 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.26             | 0%             | 0    |
| 005.00      | Ash,                    | 139      | 19.3900  | 0.2400 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.28             | 0%             | 0    |
| 005.00      | Ash,                    | 630      | 19.3900  | 0.4600 | 19.2128       | 0.6370 | 0.1684 | 108    | 0.28             | 0%             | 0    |



| Method Code | Analyte Name and Method | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                         |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 005.00      | Ash,                    | 646      | 19.4000  | 0.0000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.29</b>      | 0%             | 0    |
| 005.00      | Ash,                    | 723      | 19.4200  | 0.0200 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.33</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 563      | 19.4337  | 0.2361 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.35</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 98       | 19.4500  | 0.1000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.37</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 305      | 19.4500  | 0.0600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.37</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 187      | 19.4950  | 0.0500 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.44</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 208      | 19.5000  | 0.4000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.45</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 505      | 19.5050  | 0.0300 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.46</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 712      | 19.5050  | 0.5300 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.46</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 4        | 19.5200  | 0.0400 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.48</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 553      | 19.5350  | 0.0700 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.51</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 358      | 19.5450  | 0.1500 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.52</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 741      | 19.5450  | 0.2900 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.52</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 35       | 19.5700  | 0.1400 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.56</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 353      | 19.5900  | 0.0200 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.59</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 83       | 19.6000  | 0.1000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.61</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 731      | 19.6050  | 0.1500 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.62</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 660      | 19.6200  | 0.6000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.64</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 682      | 19.6200  | 0.0400 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.64</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 590      | 19.6500  | 0.0800 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.69</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 693      | 19.6800  | 0.1800 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.73</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 45       | 19.7000  | 0.0000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.76</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 413      | 19.7000  | 0.8000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.76</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 651      | 19.7095  | 0.0970 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.78</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 848      | 19.7100  | 0.0800 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.78</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 849      | 19.7150  | 0.1500 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.79</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 350      | 19.7795  | 0.0110 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.89</b>      | 1%             | 0    |
| 005.00      | Ash,                    | 164      | 19.7950  | 0.1100 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.91</b>      | 2%             | 0    |
| 005.00      | Ash,                    | 229      | 19.7950  | 0.1100 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.91</b>      | 2%             | 0    |
| 005.00      | Ash,                    | 722      | 19.8034  | 0.0365 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.93</b>      | 2%             | 0    |
| 005.00      | Ash,                    | 629      | 19.8100  | 0.1600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.94</b>      | 2%             | 0    |
| 005.00      | Ash,                    | 622      | 19.8215  | 0.0390 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.96</b>      | 2%             | 0    |
| 005.00      | Ash,                    | 148      | 19.8700  | 0.1000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.03</b>      | 2%             | 0    |
| 005.00      | Ash,                    | 620      | 19.9075  | 0.0350 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.09</b>      | 2%             | 0    |
| 005.00      | Ash,                    | 669      | 19.9100  | 0.1000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.09</b>      | 2%             | 0    |
| 005.00      | Ash,                    | 784      | 19.9550  | 0.0900 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.17</b>      | 2%             | 0    |
| 005.00      | Ash,                    | 152      | 20.0000  | 0.0000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.24</b>      | 2%             | 0    |
| 005.00      | Ash,                    | 226      | 20.0000  | 0.2000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.24</b>      | 2%             | 0    |
| 005.00      | Ash,                    | 265      | 20.0000  | 0.0000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.24</b>      | 2%             | 0    |
| 005.00      | Ash,                    | 366      | 20.0000  | 0.4000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.24</b>      | 2%             | 0    |
| 005.00      | Ash,                    | 619      | 20.0500  | 0.1000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.31</b>      | 2%             | 0    |
| 005.00      | Ash,                    | 874      | 20.0650  | 0.5500 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.34</b>      | 2%             | 0    |

| Method Code | Analyte Name and Method | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                         |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 005.00      | Ash,                    | 504      | 20.1150  | 0.0300 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.42</b>      | 2%             | 0    |
| 005.00      | Ash,                    | 345      | 20.2950  | 0.0900 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.70</b>      | 3%             | 0    |
| 005.00      | Ash,                    | 716      | 20.5200  | 0.3600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>2.05</b>      | 3%             | 0    |
| 005.00      | Ash,                    | 852      | 20.5250  | 0.7900 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>2.06</b>      | 3%             | 0    |
| 005.00      | Ash,                    | 51       | 18.5900  | 1.3200 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.98</b>     | 2%             | 1    |
| 005.00      | Ash,                    | 520      | 18.6950  | 0.9500 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.81</b>     | 1%             | 1    |
| 005.00      | Ash,                    | 100      | 19.0400  | 0.9400 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.27</b>     | 0%             | 1    |
| 005.00      | Ash,                    | 62       | 19.7345  | 1.1570 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.82</b>      | 1%             | 1    |
| 005.00      | Ash,                    | 609      | 13.7750  | 0.4300 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-8.54</b>     | 14%            | 2    |
| 005.00      | Ash,                    | 775      | 17.9050  | 0.0500 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-2.05</b>     | 3%             | 8    |
| 005.00      | Ash,                    | 780      | 18.0950  | 0.0100 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.75</b>     | 3%             | 8    |
| 005.00      | Ash,                    | 778      | 18.1250  | 0.1100 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.71</b>     | 3%             | 8    |
| 005.00      | Ash,                    | 812      | 18.2150  | 0.0100 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.57</b>     | 3%             | 8    |
| 005.00      | Ash,                    | 805      | 18.2250  | 0.0900 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.55</b>     | 3%             | 8    |
| 005.00      | Ash,                    | 827      | 18.2400  | 0.3200 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.53</b>     | 3%             | 8    |
| 005.00      | Ash,                    | 774      | 18.2650  | 0.0700 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.49</b>     | 2%             | 8    |
| 005.00      | Ash,                    | 800      | 18.3750  | 0.2300 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.32</b>     | 2%             | 8    |
| 005.00      | Ash,                    | 796      | 18.4250  | 0.4500 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.24</b>     | 2%             | 8    |
| 005.00      | Ash,                    | 803      | 18.4550  | 0.5900 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.19</b>     | 2%             | 8    |
| 005.00      | Ash,                    | 757      | 18.4600  | 0.0000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.18</b>     | 2%             | 8    |
| 005.00      | Ash,                    | 809      | 18.4600  | 0.2600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.18</b>     | 2%             | 8    |
| 005.00      | Ash,                    | 797      | 18.4700  | 0.1600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.17</b>     | 2%             | 8    |
| 005.00      | Ash,                    | 810      | 18.5700  | 0.1000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-1.01</b>     | 2%             | 8    |
| 005.00      | Ash,                    | 813      | 18.6000  | 0.0200 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.96</b>     | 2%             | 8    |
| 005.00      | Ash,                    | 831      | 18.6000  | 0.0600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.96</b>     | 2%             | 8    |
| 005.00      | Ash,                    | 832      | 18.6100  | 0.0400 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.95</b>     | 2%             | 8    |
| 005.00      | Ash,                    | 752      | 18.6800  | 0.2400 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.84</b>     | 1%             | 8    |
| 005.00      | Ash,                    | 804      | 18.7050  | 0.3900 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.80</b>     | 1%             | 8    |
| 005.00      | Ash,                    | 756      | 18.7100  | 0.2000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.79</b>     | 1%             | 8    |
| 005.00      | Ash,                    | 808      | 18.7450  | 0.3900 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.73</b>     | 1%             | 8    |
| 005.00      | Ash,                    | 814      | 18.7500  | 0.0800 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.73</b>     | 1%             | 8    |
| 005.00      | Ash,                    | 807      | 18.7550  | 0.0500 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.72</b>     | 1%             | 8    |
| 005.00      | Ash,                    | 777      | 18.8000  | 0.2800 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.65</b>     | 1%             | 8    |
| 005.00      | Ash,                    | 816      | 18.8000  | 0.0000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.65</b>     | 1%             | 8    |
| 005.00      | Ash,                    | 795      | 18.8100  | 0.0400 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.63</b>     | 1%             | 8    |
| 005.00      | Ash,                    | 815      | 18.9100  | 0.2600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.48</b>     | 1%             | 8    |
| 005.00      | Ash,                    | 801      | 18.9950  | 0.0100 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.34</b>     | 1%             | 8    |
| 005.00      | Ash,                    | 751      | 19.0250  | 0.6500 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.29</b>     | 0%             | 8    |
| 005.00      | Ash,                    | 806      | 19.0500  | 0.1000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.26</b>     | 0%             | 8    |
| 005.00      | Ash,                    | 734      | 19.0600  | 0.1200 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.24</b>     | 0%             | 8    |
| 005.00      | Ash,                    | 736      | 19.0600  | 0.1000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.24</b>     | 0%             | 8    |
| 005.00      | Ash,                    | 830      | 19.0950  | 0.2300 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>-0.18</b>     | 0%             | 8    |

| Method Code | Analyte Name and Method | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                         |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 005.00      | Ash,                    | 758      | 19.2150  | 0.0300 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.00</b>      | 0%             | 8    |
| 005.00      | Ash,                    | 760      | 19.2150  | 0.0100 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.00</b>      | 0%             | 8    |
| 005.00      | Ash,                    | 762      | 19.2850  | 0.0500 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.11</b>      | 0%             | 8    |
| 005.00      | Ash,                    | 747      | 19.3050  | 0.0100 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.14</b>      | 0%             | 8    |
| 005.00      | Ash,                    | 754      | 19.3100  | 0.0600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.15</b>      | 0%             | 8    |
| 005.00      | Ash,                    | 763      | 19.3250  | 0.0700 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.18</b>      | 0%             | 8    |
| 005.00      | Ash,                    | 745      | 19.3300  | 0.2400 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.18</b>      | 0%             | 8    |
| 005.00      | Ash,                    | 755      | 19.3300  | 0.1400 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.18</b>      | 0%             | 8    |
| 005.00      | Ash,                    | 749      | 19.3400  | 0.1200 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.20</b>      | 0%             | 8    |
| 005.00      | Ash,                    | 835      | 19.3900  | 0.0000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.28</b>      | 0%             | 8    |
| 005.00      | Ash,                    | 753      | 19.4100  | 0.1200 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.31</b>      | 1%             | 8    |
| 005.00      | Ash,                    | 819      | 19.4300  | 0.0600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.34</b>      | 1%             | 8    |
| 005.00      | Ash,                    | 739      | 19.4400  | 0.0600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.36</b>      | 1%             | 8    |
| 005.00      | Ash,                    | 834      | 19.4600  | 0.0200 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.39</b>      | 1%             | 8    |
| 005.00      | Ash,                    | 759      | 19.5200  | 0.0400 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.48</b>      | 1%             | 8    |
| 005.00      | Ash,                    | 742      | 19.5350  | 0.0500 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.51</b>      | 1%             | 8    |
| 005.00      | Ash,                    | 822      | 19.5350  | 0.0300 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.51</b>      | 1%             | 8    |
| 005.00      | Ash,                    | 740      | 19.5450  | 0.0500 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.52</b>      | 1%             | 8    |
| 005.00      | Ash,                    | 743      | 19.5500  | 0.2600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.53</b>      | 1%             | 8    |
| 005.00      | Ash,                    | 748      | 19.5500  | 0.0800 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.53</b>      | 1%             | 8    |
| 005.00      | Ash,                    | 821      | 19.5650  | 0.0700 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.55</b>      | 1%             | 8    |
| 005.00      | Ash,                    | 770      | 19.6400  | 0.1400 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.67</b>      | 1%             | 8    |
| 005.00      | Ash,                    | 828      | 19.6850  | 0.2900 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.74</b>      | 1%             | 8    |
| 005.00      | Ash,                    | 767      | 19.7500  | 0.0600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.84</b>      | 1%             | 8    |
| 005.00      | Ash,                    | 769      | 19.8100  | 0.3400 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>0.94</b>      | 2%             | 8    |
| 005.00      | Ash,                    | 746      | 19.8700  | 0.1000 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.03</b>      | 2%             | 8    |
| 005.00      | Ash,                    | 785      | 19.8750  | 0.3100 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.04</b>      | 2%             | 8    |
| 005.00      | Ash,                    | 744      | 19.8950  | 0.1100 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.07</b>      | 2%             | 8    |
| 005.00      | Ash,                    | 783      | 19.9200  | 0.1600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.11</b>      | 2%             | 8    |
| 005.00      | Ash,                    | 772      | 19.9400  | 0.3200 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.14</b>      | 2%             | 8    |
| 005.00      | Ash,                    | 771      | 20.0500  | 0.1200 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.31</b>      | 2%             | 8    |
| 005.00      | Ash,                    | 765      | 20.1300  | 0.0600 | 19.2128       | 0.6370 | 0.1684 | 108    | <b>1.44</b>      | 2%             | 8    |
| 005.02      | Ash, LECO               | 610      | 19.8500  | 0.1000 |               |        | 0.1000 | 1      |                  |                |      |
| 005.03      | Ash, Microwave furnace  | 782      | 19.3100  | 0.0400 |               |        | 0.0400 | 0      |                  |                |      |
| 005.05      | Ash, 3h @ 550°C         | 871      | 18.9800  | 0.0000 | 20.0647       | 0.4868 | 0.0420 | 8      | <b>-2.23</b>     | 3%             | 0    |
| 005.05      | Ash, 3h @ 550°C         | 631      | 19.1950  | 0.0900 | 20.0647       | 0.4868 | 0.0420 | 8      | <b>-1.79</b>     | 2%             | 0    |
| 005.05      | Ash, 3h @ 550°C         | 294      | 19.9350  | 0.0100 | 20.0647       | 0.4868 | 0.0420 | 8      | <b>-0.27</b>     | 0%             | 0    |
| 005.05      | Ash, 3h @ 550°C         | 679      | 20.0750  | 0.0300 | 20.0647       | 0.4868 | 0.0420 | 8      | <b>0.02</b>      | 0%             | 0    |
| 005.05      | Ash, 3h @ 550°C         | 592      | 20.1090  | 0.0540 | 20.0647       | 0.4868 | 0.0420 | 8      | <b>0.09</b>      | 0%             | 0    |
| 005.05      | Ash, 3h @ 550°C         | 868      | 20.3400  | 0.0200 | 20.0647       | 0.4868 | 0.0420 | 8      | <b>0.57</b>      | 1%             | 0    |
| 005.05      | Ash, 3h @ 550°C         | 866      | 20.3930  | 0.0220 | 20.0647       | 0.4868 | 0.0420 | 8      | <b>0.67</b>      | 1%             | 0    |
| 005.05      | Ash, 3h @ 550°C         | 695      | 21.4950  | 0.1100 | 20.0647       | 0.4868 | 0.0420 | 8      | <b>2.94</b>      | 4%             | 0    |

| Method Code | Analyte Name and Method      | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                              |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 005.05      | Ash, 3h @ 550°C              | 121      | 18.6180  | 0.2680 | 20.0647       | 0.4868 | 0.0420 | 8      | -2.97            | 4%             | 1    |
| 005.11      | Ash, NIR                     | 731      | 18.9850  | 0.7900 | 22.9847       | 1.9672 | 0.3200 | 6      | -2.03            | 9%             | 0    |
| 005.11      | Ash, NIR                     | 713      | 21.6750  | 0.2300 | 22.9847       | 1.9672 | 0.3200 | 6      | -0.67            | 3%             | 0    |
| 005.11      | Ash, NIR                     | 679      | 22.9650  | 0.3500 | 22.9847       | 1.9672 | 0.3200 | 6      | -0.01            | 0%             | 0    |
| 005.11      | Ash, NIR                     | 867      | 23.6500  | 0.0200 | 22.9847       | 1.9672 | 0.3200 | 6      | 0.34             | 1%             | 0    |
| 005.11      | Ash, NIR                     | 631      | 24.5750  | 0.4300 | 22.9847       | 1.9672 | 0.3200 | 6      | 0.81             | 3%             | 0    |
| 005.11      | Ash, NIR                     | 178      | 24.7500  | 0.1000 | 22.9847       | 1.9672 | 0.3200 | 6      | 0.90             | 4%             | 0    |
| 005.99      | Ash, Miscellaneous           | 826      | 17.6600  | 0.0400 | 19.4850       | 1.4318 | 0.2211 | 9      | -1.27            | 5%             | 0    |
| 005.99      | Ash, Miscellaneous           | 681      | 18.0950  | 0.0500 | 19.4850       | 1.4318 | 0.2211 | 9      | -0.97            | 4%             | 0    |
| 005.99      | Ash, Miscellaneous           | 536      | 18.3300  | 0.5000 | 19.4850       | 1.4318 | 0.2211 | 9      | -0.81            | 3%             | 0    |
| 005.99      | Ash, Miscellaneous           | 546      | 19.5800  | 0.6200 | 19.4850       | 1.4318 | 0.2211 | 9      | 0.07             | 0%             | 0    |
| 005.99      | Ash, Miscellaneous           | 581      | 19.6600  | 0.1000 | 19.4850       | 1.4318 | 0.2211 | 9      | 0.12             | 0%             | 0    |
| 005.99      | Ash, Miscellaneous           | 574      | 19.7450  | 0.0100 | 19.4850       | 1.4318 | 0.2211 | 9      | 0.18             | 1%             | 0    |
| 005.99      | Ash, Miscellaneous           | 861      | 19.9950  | 0.0700 | 19.4850       | 1.4318 | 0.2211 | 9      | 0.36             | 1%             | 0    |
| 005.99      | Ash, Miscellaneous           | 652      | 20.8000  | 0.4000 | 19.4850       | 1.4318 | 0.2211 | 9      | 0.92             | 3%             | 0    |
| 005.99      | Ash, Miscellaneous           | 202      | 21.5000  | 0.2000 | 19.4850       | 1.4318 | 0.2211 | 9      | 1.41             | 5%             | 0    |
| 008.02      | Fiber, Acid Detergent        | 590      | 8.2000   | 0.4000 | 11.8062       | 1.8660 | 0.2056 | 11     | -1.93            | 15%            | 0    |
| 008.02      | Fiber, Acid Detergent        | 619      | 9.1950   | 0.1300 | 11.8062       | 1.8660 | 0.2056 | 11     | -1.40            | 11%            | 0    |
| 008.02      | Fiber, Acid Detergent        | 592      | 10.1860  | 0.1420 | 11.8062       | 1.8660 | 0.2056 | 11     | -0.87            | 7%             | 0    |
| 008.02      | Fiber, Acid Detergent        | 675      | 10.6500  | 0.0600 | 11.8062       | 1.8660 | 0.2056 | 11     | -0.62            | 5%             | 0    |
| 008.02      | Fiber, Acid Detergent        | 868      | 11.1900  | 0.2400 | 11.8062       | 1.8660 | 0.2056 | 11     | -0.33            | 3%             | 0    |
| 008.02      | Fiber, Acid Detergent        | 98       | 12.1900  | 0.5800 | 11.8062       | 1.8660 | 0.2056 | 11     | 0.21             | 2%             | 0    |
| 008.02      | Fiber, Acid Detergent        | 187      | 13.0000  | 0.0600 | 11.8062       | 1.8660 | 0.2056 | 11     | 0.64             | 5%             | 0    |
| 008.02      | Fiber, Acid Detergent        | 35       | 13.1400  | 0.0400 | 11.8062       | 1.8660 | 0.2056 | 11     | 0.71             | 6%             | 0    |
| 008.02      | Fiber, Acid Detergent        | 148      | 13.3900  | 0.1400 | 11.8062       | 1.8660 | 0.2056 | 11     | 0.85             | 7%             | 0    |
| 008.02      | Fiber, Acid Detergent        | 226      | 13.4000  | 0.2000 | 11.8062       | 1.8660 | 0.2056 | 11     | 0.85             | 7%             | 0    |
| 008.02      | Fiber, Acid Detergent        | 353      | 13.7250  | 0.2700 | 11.8062       | 1.8660 | 0.2056 | 11     | 1.03             | 8%             | 0    |
| 008.05      | Fiber, Acid Detergent-Hach   | 265      | 14.4500  | 0.5000 |               |        | 0.5000 | 1      |                  |                |      |
| 008.08      | Fiber, Acid Detergent, ANKOM | 686      | 8.0000   | 0.6800 | 9.7646        | 1.0185 | 0.3691 | 23     | -1.73            | 9%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM | 26       | 8.5800   | 0.1200 | 9.7646        | 1.0185 | 0.3691 | 23     | -1.16            | 6%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM | 4        | 8.6750   | 0.1500 | 9.7646        | 1.0185 | 0.3691 | 23     | -1.07            | 6%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM | 646      | 8.6800   | 0.7600 | 9.7646        | 1.0185 | 0.3691 | 23     | -1.06            | 6%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM | 581      | 8.7850   | 0.2500 | 9.7646        | 1.0185 | 0.3691 | 23     | -0.96            | 5%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM | 358      | 8.8750   | 0.5500 | 9.7646        | 1.0185 | 0.3691 | 23     | -0.87            | 5%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM | 164      | 9.1000   | 0.0000 | 9.7646        | 1.0185 | 0.3691 | 23     | -0.65            | 3%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM | 413      | 9.4000   | 0.0000 | 9.7646        | 1.0185 | 0.3691 | 23     | -0.36            | 2%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM | 693      | 9.5050   | 0.8500 | 9.7646        | 1.0185 | 0.3691 | 23     | -0.25            | 1%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM | 294      | 9.5650   | 0.0900 | 9.7646        | 1.0185 | 0.3691 | 23     | -0.20            | 1%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM | 669      | 9.7400   | 0.4800 | 9.7646        | 1.0185 | 0.3691 | 23     | -0.02            | 0%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM | 49       | 9.7800   | 1.1000 | 9.7646        | 1.0185 | 0.3691 | 23     | 0.02             | 0%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM | 278      | 9.8000   | 0.6000 | 9.7646        | 1.0185 | 0.3691 | 23     | 0.03             | 0%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM | 354      | 9.8500   | 0.2400 | 9.7646        | 1.0185 | 0.3691 | 23     | 0.08             | 0%             | 0    |

| Method Code | Analyte Name and Method             | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-------------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                     |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 008.08      | Fiber, Acid Detergent, ANKOM        | 37       | 9.8600   | 0.0200 | 9.7646        | 1.0185 | 0.3691 | 23     | <b>0.09</b>      | 0%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM        | 83       | 10.2550  | 0.1500 | 9.7646        | 1.0185 | 0.3691 | 23     | <b>0.48</b>      | 3%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM        | 33       | 10.4500  | 0.3000 | 9.7646        | 1.0185 | 0.3691 | 23     | <b>0.67</b>      | 4%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM        | 1        | 10.5000  | 0.2000 | 9.7646        | 1.0185 | 0.3691 | 23     | <b>0.72</b>      | 4%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM        | 510      | 10.6000  | 0.4000 | 9.7646        | 1.0185 | 0.3691 | 23     | <b>0.82</b>      | 4%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM        | 106      | 10.6850  | 0.0100 | 9.7646        | 1.0185 | 0.3691 | 23     | <b>0.90</b>      | 5%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM        | 160      | 11.0800  | 0.5400 | 9.7646        | 1.0185 | 0.3691 | 23     | <b>1.29</b>      | 7%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM        | 202      | 11.3500  | 0.7000 | 9.7646        | 1.0185 | 0.3691 | 23     | <b>1.56</b>      | 8%             | 0    |
| 008.08      | Fiber, Acid Detergent, ANKOM        | 45       | 11.4500  | 0.3000 | 9.7646        | 1.0185 | 0.3691 | 23     | <b>1.65</b>      | 9%             | 0    |
| 008.99      | Fiber, Acid Detergent Miscellaneous | 610      | 9.7000   | 1.2000 | 12.5200       | 3.9881 | 0.8500 | 2      | <b>-0.71</b>     | 11%            | 0    |
| 008.99      | Fiber, Acid Detergent Miscellaneous | 613      | 15.3400  | 0.5000 | 12.5200       | 3.9881 | 0.8500 | 2      | <b>0.71</b>      | 11%            | 0    |
| 009.07      | Fiber, Neutral Det-ENZ Pretreat     | 187      | 19.8650  | 0.0700 | 21.7438       | 0.9373 | 0.6300 | 8      | <b>-2.00</b>     | 4%             | 0    |
| 009.07      | Fiber, Neutral Det-ENZ Pretreat     | 98       | 20.9000  | 2.0000 | 21.7438       | 0.9373 | 0.6300 | 8      | <b>-0.90</b>     | 2%             | 0    |
| 009.07      | Fiber, Neutral Det-ENZ Pretreat     | 590      | 21.4000  | 1.0000 | 21.7438       | 0.9373 | 0.6300 | 8      | <b>-0.37</b>     | 1%             | 0    |
| 009.07      | Fiber, Neutral Det-ENZ Pretreat     | 353      | 21.6300  | 0.1000 | 21.7438       | 0.9373 | 0.6300 | 8      | <b>-0.12</b>     | 0%             | 0    |
| 009.07      | Fiber, Neutral Det-ENZ Pretreat     | 226      | 21.9500  | 0.1000 | 21.7438       | 0.9373 | 0.6300 | 8      | <b>0.22</b>      | 0%             | 0    |
| 009.07      | Fiber, Neutral Det-ENZ Pretreat     | 45       | 21.9500  | 1.7000 | 21.7438       | 0.9373 | 0.6300 | 8      | <b>0.22</b>      | 0%             | 0    |
| 009.07      | Fiber, Neutral Det-ENZ Pretreat     | 38       | 22.5400  | 0.0600 | 21.7438       | 0.9373 | 0.6300 | 8      | <b>0.85</b>      | 2%             | 0    |
| 009.07      | Fiber, Neutral Det-ENZ Pretreat     | 675      | 23.4950  | 0.0100 | 21.7438       | 0.9373 | 0.6300 | 8      | <b>1.87</b>      | 4%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 278      | 17.8000  | 0.2000 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>-1.56</b>     | 7%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 164      | 17.9500  | 0.1000 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>-1.48</b>     | 6%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 413      | 18.0500  | 1.1000 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>-1.43</b>     | 6%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 686      | 18.7850  | 0.1700 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>-1.02</b>     | 4%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 37       | 19.6250  | 0.0300 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>-0.55</b>     | 2%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 646      | 19.6400  | 0.8600 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>-0.54</b>     | 2%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 160      | 20.4500  | 0.4200 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>-0.09</b>     | 0%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 581      | 20.4600  | 0.4200 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>-0.08</b>     | 0%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 693      | 20.5700  | 1.2800 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>-0.02</b>     | 0%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 294      | 20.8150  | 0.0500 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>0.11</b>      | 0%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 510      | 20.9000  | 0.2000 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>0.16</b>      | 1%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 202      | 20.9500  | 0.3000 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>0.19</b>      | 1%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 354      | 20.9550  | 0.2700 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>0.19</b>      | 1%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 106      | 21.2250  | 0.8100 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>0.34</b>      | 1%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 49       | 22.7350  | 0.9100 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>1.18</b>      | 5%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 83       | 22.7600  | 0.1000 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>1.20</b>      | 5%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 669      | 23.3700  | 0.5800 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>1.54</b>      | 7%             | 0    |
| 009.09      | Fiber, Neutral Detergent, ANKOM     | 265      | 25.3500  | 0.5000 | 20.6097       | 1.7954 | 0.4611 | 18     | <b>2.64</b>      | 12%            | 0    |
| 009.99      | Fiber, Neutral Det Miscellaneous    | 610      | 18.7500  | 1.1000 | 21.9617       | 5.3051 | 1.0700 | 3      | <b>-0.61</b>     | 7%             | 0    |
| 009.99      | Fiber, Neutral Det Miscellaneous    | 619      | 19.0500  | 0.3000 | 21.9617       | 5.3051 | 1.0700 | 3      | <b>-0.55</b>     | 7%             | 0    |
| 009.99      | Fiber, Neutral Det Miscellaneous    | 613      | 28.0850  | 1.8100 | 21.9617       | 5.3051 | 1.0700 | 3      | <b>1.15</b>      | 14%            | 0    |
| 010.03      | Moisture, Karl-Fischer              | 546      | 4.2306   | 0.4566 | 4.8502        | 0.4761 | 0.2992 | 4      | <b>-1.30</b>     | 6%             | 0    |
| 010.03      | Moisture, Karl-Fischer              | 27       | 4.7650   | 0.5100 | 4.8502        | 0.4761 | 0.2992 | 4      | <b>-0.18</b>     | 1%             | 0    |

| Method Code | Analyte Name and Method     | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-----------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                             |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 010.03      | Moisture, Karl-Fischer      | 826      | 5.0600   | 0.0400 | 4.8502        | 0.4761 | 0.2992 | 4      | <b>0.44</b>      | 2%             | 0    |
| 010.03      | Moisture, Karl-Fischer      | 843      | 5.3450   | 0.1900 | 4.8502        | 0.4761 | 0.2992 | 4      | <b>1.04</b>      | 5%             | 0    |
| 010.11      | Moisture, NIR               | 38       | 4.7520   | 0.1040 | 5.7750        | 0.5314 | 0.1149 | 7      | <b>-1.93</b>     | 9%             | 0    |
| 010.11      | Moisture, NIR               | 178      | 5.3000   | 0.4000 | 5.7750        | 0.5314 | 0.1149 | 7      | <b>-0.89</b>     | 4%             | 0    |
| 010.11      | Moisture, NIR               | 631      | 5.5300   | 0.0800 | 5.7750        | 0.5314 | 0.1149 | 7      | <b>-0.46</b>     | 2%             | 0    |
| 010.11      | Moisture, NIR               | 867      | 5.8250   | 0.0100 | 5.7750        | 0.5314 | 0.1149 | 7      | <b>0.09</b>      | 0%             | 0    |
| 010.11      | Moisture, NIR               | 679      | 6.0400   | 0.1800 | 5.7750        | 0.5314 | 0.1149 | 7      | <b>0.50</b>      | 2%             | 0    |
| 010.11      | Moisture, NIR               | 713      | 6.0800   | 0.0200 | 5.7750        | 0.5314 | 0.1149 | 7      | <b>0.57</b>      | 3%             | 0    |
| 010.11      | Moisture, NIR               | 731      | 7.7450   | 0.0100 | 5.7750        | 0.5314 | 0.1149 | 7      | <b>3.71</b>      | 17%            | 0    |
| 010.99      | Moisture, Miscellaneous     | 164      | 5.1500   | 0.0200 | 7.2472        | 1.1574 | 0.0986 | 10     | <b>-1.81</b>     | 14%            | 0    |
| 010.99      | Moisture, Miscellaneous     | 631      | 6.3200   | 0.0600 | 7.2472        | 1.1574 | 0.0986 | 10     | <b>-0.80</b>     | 6%             | 0    |
| 010.99      | Moisture, Miscellaneous     | 712      | 6.6100   | 0.2200 | 7.2472        | 1.1574 | 0.0986 | 10     | <b>-0.55</b>     | 4%             | 0    |
| 010.99      | Moisture, Miscellaneous     | 871      | 6.6200   | 0.0200 | 7.2472        | 1.1574 | 0.0986 | 10     | <b>-0.54</b>     | 4%             | 0    |
| 010.99      | Moisture, Miscellaneous     | 613      | 7.0550   | 0.2900 | 7.2472        | 1.1574 | 0.0986 | 10     | <b>-0.17</b>     | 1%             | 0    |
| 010.99      | Moisture, Miscellaneous     | 716      | 7.2700   | 0.0400 | 7.2472        | 1.1574 | 0.0986 | 10     | <b>0.02</b>      | 0%             | 0    |
| 010.99      | Moisture, Miscellaneous     | 652      | 7.4000   | 0.0000 | 7.2472        | 1.1574 | 0.0986 | 10     | <b>0.13</b>      | 1%             | 0    |
| 010.99      | Moisture, Miscellaneous     | 866      | 8.4320   | 0.0560 | 7.2472        | 1.1574 | 0.0986 | 10     | <b>1.02</b>      | 8%             | 0    |
| 010.99      | Moisture, Miscellaneous     | 529      | 8.4400   | 0.0200 | 7.2472        | 1.1574 | 0.0986 | 10     | <b>1.03</b>      | 8%             | 0    |
| 010.99      | Moisture, Miscellaneous     | 852      | 8.7900   | 0.2600 | 7.2472        | 1.1574 | 0.0986 | 10     | <b>1.33</b>      | 11%            | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 294      | 7.8500   | 0.3000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-2.59</b>     | 14%            | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 874      | 7.8950   | 0.0300 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-2.55</b>     | 13%            | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 660      | 8.4200   | 0.4000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-2.08</b>     | 11%            | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 179      | 8.4500   | 0.1200 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-2.06</b>     | 11%            | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 658      | 8.5035   | 0.0910 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-2.01</b>     | 11%            | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 552      | 8.5150   | 0.0100 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-2.00</b>     | 10%            | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 152      | 9.0000   | 0.0000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-1.57</b>     | 8%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 175      | 9.2000   | 0.2000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-1.39</b>     | 7%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 843      | 9.2550   | 0.6500 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-1.34</b>     | 7%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 574      | 9.2600   | 0.1600 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-1.34</b>     | 7%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 643      | 9.4500   | 0.3000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-1.17</b>     | 6%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 354      | 9.6000   | 0.1800 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-1.04</b>     | 5%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 34       | 9.6550   | 0.1100 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.99</b>     | 5%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 682      | 9.6850   | 0.0900 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.96</b>     | 5%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 623      | 9.8026   | 0.1562 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.86</b>     | 4%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 119      | 9.8600   | 0.1000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.81</b>     | 4%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 539      | 10.0100  | 0.7200 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.67</b>     | 4%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 100      | 10.0450  | 0.2700 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.64</b>     | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 160      | 10.0465  | 0.1590 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.64</b>     | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 202      | 10.0550  | 0.1700 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.63</b>     | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 358      | 10.1000  | 0.2000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.59</b>     | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 21       | 10.1100  | 0.0800 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.59</b>     | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 848      | 10.1100  | 0.3200 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.59</b>     | 3%             | 0    |

| Method Code | Analyte Name and Method     | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-----------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                             |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 011.01      | Loss on Drying, 135 deg 2hr | 298      | 10.1700  | 0.0200 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.53            | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 811      | 10.1800  | 0.1000 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.52            | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 761      | 10.3000  | 0.1600 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.42            | 2%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 242      | 10.3700  | 0.2400 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.35            | 2%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 305      | 10.3900  | 0.0600 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.34            | 2%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 208      | 10.5000  | 0.2000 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.24            | 1%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 620      | 10.5001  | 0.1543 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.24            | 1%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 51       | 10.5100  | 0.3000 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.23            | 1%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 622      | 10.6170  | 0.0355 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.14            | 1%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 722      | 10.6281  | 0.0000 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.13            | 1%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 62       | 10.6340  | 0.1100 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.12            | 1%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 33       | 10.6400  | 0.1000 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.12            | 1%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 563      | 10.6436  | 0.1919 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.11            | 1%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 520      | 10.6450  | 0.0100 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.11            | 1%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 300      | 10.6550  | 0.0100 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.10            | 1%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 148      | 10.7600  | 0.0600 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.01            | 0%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 723      | 10.7600  | 0.0200 | 10.7708       | 1.1291 | 0.1795 | 77     | -0.01            | 0%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 646      | 10.7900  | 0.0600 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.02             | 0%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 350      | 10.8270  | 0.0380 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.05             | 0%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 859      | 10.9950  | 0.1200 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.20             | 1%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 226      | 11.0000  | 0.2000 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.20             | 1%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 651      | 11.0245  | 0.0470 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.22             | 1%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 121      | 11.0890  | 0.3500 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.28             | 1%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 675      | 11.1400  | 0.0200 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.33             | 2%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 8        | 11.1500  | 0.0000 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.34             | 2%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 407      | 11.2300  | 0.0200 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.41             | 2%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 792      | 11.2750  | 0.8700 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.45             | 2%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 781      | 11.4155  | 0.0984 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.57             | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 650      | 11.4350  | 0.0900 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.59             | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 798      | 11.4400  | 0.0400 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.59             | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 735      | 11.4500  | 0.3400 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.60             | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 776      | 11.4900  | 0.2600 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.64             | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 817      | 11.5050  | 0.2700 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.65             | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 171      | 11.5100  | 0.1400 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.65             | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 229      | 11.5100  | 0.1200 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.65             | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 26       | 11.5150  | 0.0100 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.66             | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 194      | 11.5150  | 0.0300 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.66             | 3%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 653      | 11.5350  | 0.0100 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.68             | 4%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 205      | 11.6000  | 0.3400 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.73             | 4%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 596      | 11.6500  | 0.9000 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.78             | 4%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 741      | 11.7400  | 0.4400 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.86             | 4%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 98       | 11.7500  | 0.1000 | 10.7708       | 1.1291 | 0.1795 | 77     | 0.87             | 5%             | 0    |

| Method Code | Analyte Name and Method     | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-----------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                             |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 011.01      | Loss on Drying, 135 deg 2hr | 511      | 11.7950  | 0.3700 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.91</b>      | 5%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 670      | 11.9900  | 0.1200 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.08</b>      | 6%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 265      | 12.0500  | 0.3000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.13</b>      | 6%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 823      | 12.0500  | 0.1000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.13</b>      | 6%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 233      | 12.2100  | 0.3000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.27</b>      | 7%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 750      | 12.3350  | 0.4100 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.39</b>      | 7%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 164      | 12.3850  | 0.1100 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.43</b>      | 7%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 829      | 12.4750  | 0.0700 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.51</b>      | 8%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 144      | 12.5050  | 0.3500 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.54</b>      | 8%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 541      | 12.5700  | 0.0400 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.59</b>      | 8%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 510      | 12.6500  | 0.1000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.66</b>      | 9%             | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 738      | 12.8450  | 0.0500 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.84</b>      | 10%            | 0    |
| 011.01      | Loss on Drying, 135 deg 2hr | 553      | 10.8200  | 1.7600 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.04</b>      | 0%             | 1    |
| 011.01      | Loss on Drying, 135 deg 2hr | 108      | 12.7900  | 2.2400 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.79</b>      | 9%             | 1    |
| 011.01      | Loss on Drying, 135 deg 2hr | 808      | 9.7850   | 0.2700 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.87</b>     | 5%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 810      | 9.9050   | 0.1100 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.77</b>     | 4%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 770      | 10.0300  | 0.1000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.66</b>     | 3%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 765      | 10.1700  | 0.0400 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.53</b>     | 3%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 769      | 10.1800  | 0.0000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.52</b>     | 3%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 771      | 10.2650  | 0.0300 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.45</b>     | 2%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 809      | 10.2800  | 0.3600 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.43</b>     | 2%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 831      | 10.2950  | 0.3500 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.42</b>     | 2%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 767      | 10.3800  | 0.3000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.35</b>     | 2%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 828      | 10.3950  | 0.1900 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.33</b>     | 2%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 763      | 10.4550  | 0.0700 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.28</b>     | 1%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 759      | 10.4900  | 0.0400 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.25</b>     | 1%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 772      | 10.5050  | 0.1900 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.24</b>     | 1%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 762      | 10.5200  | 0.1600 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.22</b>     | 1%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 760      | 10.6000  | 0.1000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>-0.15</b>     | 1%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 813      | 10.8950  | 0.1700 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.11</b>      | 1%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 830      | 10.9850  | 0.0900 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.19</b>      | 1%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 736      | 11.0650  | 0.1300 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.26</b>      | 1%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 782      | 11.1865  | 0.0596 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.37</b>      | 2%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 821      | 11.1950  | 0.0300 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.38</b>      | 2%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 803      | 11.2200  | 0.2800 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.40</b>      | 2%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 815      | 11.2200  | 0.7200 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.40</b>      | 2%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 796      | 11.2500  | 0.2600 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.42</b>      | 2%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 774      | 11.2700  | 0.1200 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.44</b>      | 2%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 740      | 11.2750  | 0.0500 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.45</b>      | 2%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 746      | 11.2950  | 0.0300 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.46</b>      | 2%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 812      | 11.3050  | 0.2100 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.47</b>      | 2%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 805      | 11.3450  | 0.4700 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.51</b>      | 3%             | 8    |



| Method Code | Analyte Name and Method     | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-----------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                             |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 011.01      | Loss on Drying, 135 deg 2hr | 816      | 11.3500  | 0.1000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.51</b>      | 3%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 778      | 11.3700  | 0.4000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.53</b>      | 3%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 742      | 11.4450  | 0.0500 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.60</b>      | 3%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 795      | 11.4450  | 0.2300 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.60</b>      | 3%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 832      | 11.4700  | 0.1600 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.62</b>      | 3%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 807      | 11.4800  | 0.0400 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.63</b>      | 3%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 814      | 11.4850  | 0.1900 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.63</b>      | 3%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 806      | 11.5400  | 0.3000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.68</b>      | 4%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 777      | 11.5500  | 0.7200 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.69</b>      | 4%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 743      | 11.5550  | 0.2700 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.69</b>      | 4%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 801      | 11.5750  | 0.0300 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.71</b>      | 4%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 827      | 11.5800  | 0.4800 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.72</b>      | 4%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 744      | 11.5900  | 0.0600 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.73</b>      | 4%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 804      | 11.5900  | 0.0400 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.73</b>      | 4%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 734      | 11.5950  | 0.1500 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.73</b>      | 4%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 739      | 11.6700  | 0.1400 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.80</b>      | 4%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 780      | 11.7200  | 0.5600 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.84</b>      | 4%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 748      | 11.7300  | 0.4200 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.85</b>      | 4%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 797      | 11.7600  | 0.1400 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.88</b>      | 5%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 747      | 11.7700  | 0.2400 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.89</b>      | 5%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 800      | 11.8750  | 0.1100 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>0.98</b>      | 5%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 745      | 11.9000  | 0.1200 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.00</b>      | 5%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 834      | 11.9550  | 0.0500 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.05</b>      | 5%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 825      | 12.0000  | 0.0000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.09</b>      | 6%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 775      | 12.0100  | 0.1800 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.10</b>      | 6%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 835      | 12.0550  | 0.2100 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.14</b>      | 6%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 819      | 12.0800  | 0.0600 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.16</b>      | 6%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 824      | 12.1000  | 0.0000 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.18</b>      | 6%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 757      | 12.1100  | 0.5800 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.19</b>      | 6%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 753      | 12.1200  | 0.3200 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.19</b>      | 6%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 822      | 12.2150  | 0.0700 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.28</b>      | 7%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 752      | 12.2200  | 0.1400 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.28</b>      | 7%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 755      | 12.2300  | 0.2400 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.29</b>      | 7%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 754      | 12.2600  | 0.0600 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.32</b>      | 7%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 756      | 12.2750  | 0.1700 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.33</b>      | 7%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 758      | 12.2750  | 0.0100 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.33</b>      | 7%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 749      | 12.3350  | 0.0500 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.39</b>      | 7%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 790      | 12.3450  | 0.0300 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.39</b>      | 7%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 833      | 12.3600  | 0.0800 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.41</b>      | 7%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 751      | 12.4150  | 0.1500 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.46</b>      | 8%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 737      | 12.4700  | 0.0600 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.50</b>      | 8%             | 8    |
| 011.01      | Loss on Drying, 135 deg 2hr | 794      | 12.4911  | 0.2356 | 10.7708       | 1.1291 | 0.1795 | 77     | <b>1.52</b>      | 8%             | 8    |

| Method Code | Analyte Name and Method            | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|------------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                    |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 011.02      | Loss on drying, 130°C for 2 hours  | 598      | 7.9350   | 0.0500 |               |        | 0.0500 | 1      |                  |                |      |
| 011.99      | Loss on Drying, High Temp. Methods | 541      | 5.0550   | 0.3100 | 6.9117        | 2.4587 | 0.3433 | 3      | -0.76            | 13%            | 0    |
| 011.99      | Loss on Drying, High Temp. Methods | 852      | 5.9800   | 0.1200 | 6.9117        | 2.4587 | 0.3433 | 3      | -0.38            | 7%             | 0    |
| 011.99      | Loss on Drying, High Temp. Methods | 857      | 9.7000   | 0.6000 | 6.9117        | 2.4587 | 0.3433 | 3      | 1.13             | 20%            | 0    |
| 012.00      | Starch, Polarimetric (Ewers)       | 689      | 6.2500   | 0.3000 | 8.0033        | 1.6401 | 0.3000 | 3      | -1.07            | 11%            | 0    |
| 012.00      | Starch, Polarimetric (Ewers)       | 354      | 8.2600   | 0.0000 | 8.0033        | 1.6401 | 0.3000 | 3      | 0.16             | 2%             | 0    |
| 012.00      | Starch, Polarimetric (Ewers)       | 178      | 9.5000   | 0.6000 | 8.0033        | 1.6401 | 0.3000 | 3      | 0.91             | 9%             | 0    |
| 012.01      | Starch, Megazyme                   | 676      | 5.9850   | 0.1100 | 6.3325        | 0.4914 | 0.0850 | 2      | -0.71            | 3%             | 0    |
| 012.01      | Starch, Megazyme                   | 686      | 6.6800   | 0.0600 | 6.3325        | 0.4914 | 0.0850 | 2      | 0.71             | 3%             | 0    |
| 012.02      | Starch, Colorimetric (GOP)         | 722      | 5.7413   | 0.3871 |               |        | 0.3871 | 1      |                  |                |      |
| 012.03      | Starch, Enzymatic                  | 98       | 6.3500   | 0.1000 |               |        | 0.1000 | 1      |                  |                |      |
| 012.04      | Starch, YSI Analyzer               | 510      | 2.4500   | 0.1000 | 6.0200        | 0.5736 | 0.1100 | 6      | -6.22            | 30%            | 0    |
| 012.04      | Starch, YSI Analyzer               | 278      | 5.8000   | 0.0000 | 6.0200        | 0.5736 | 0.1100 | 6      | -0.38            | 2%             | 0    |
| 012.04      | Starch, YSI Analyzer               | 160      | 5.8450   | 0.0300 | 6.0200        | 0.5736 | 0.1100 | 6      | -0.31            | 1%             | 0    |
| 012.04      | Starch, YSI Analyzer               | 353      | 6.0950   | 0.1500 | 6.0200        | 0.5736 | 0.1100 | 6      | 0.13             | 1%             | 0    |
| 012.04      | Starch, YSI Analyzer               | 38       | 6.4400   | 0.2800 | 6.0200        | 0.5736 | 0.1100 | 6      | 0.73             | 3%             | 0    |
| 012.04      | Starch, YSI Analyzer               | 106      | 7.8500   | 0.1000 | 6.0200        | 0.5736 | 0.1100 | 6      | 3.19             | 15%            | 0    |
| 012.99      | Starch, Miscellaneous              | 619      | 19.3000  | 0.0000 |               |        | 0.0000 | 1      |                  |                |      |
| 013.00      | Fat, Acid hydrolysis               | 689      | 3.7000   | 0.2000 | 3.8367        | 0.1518 | 0.2067 | 3      | -0.90            | 2%             | 0    |
| 013.00      | Fat, Acid hydrolysis               | 616      | 3.8100   | 0.2200 | 3.8367        | 0.1518 | 0.2067 | 3      | -0.18            | 0%             | 0    |
| 013.00      | Fat, Acid hydrolysis               | 229      | 4.0000   | 0.2000 | 3.8367        | 0.1518 | 0.2067 | 3      | 1.08             | 2%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 750      | 3.3250   | 0.2300 | 4.2045        | 0.4173 | 0.1428 | 34     | -2.11            | 10%            | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 33       | 3.6350   | 0.1500 | 4.2045        | 0.4173 | 0.1428 | 34     | -1.36            | 7%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 553      | 3.6500   | 0.3600 | 4.2045        | 0.4173 | 0.1428 | 34     | -1.33            | 7%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 817      | 3.7000   | 0.2200 | 4.2045        | 0.4173 | 0.1428 | 34     | -1.21            | 6%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 792      | 3.7250   | 0.4700 | 4.2045        | 0.4173 | 0.1428 | 34     | -1.15            | 6%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 208      | 3.7600   | 0.1400 | 4.2045        | 0.4173 | 0.1428 | 34     | -1.07            | 5%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 16       | 3.8000   | 0.2200 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.97            | 5%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 26       | 3.8700   | 0.0600 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.80            | 4%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 741      | 3.9250   | 0.1900 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.67            | 3%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 768      | 3.9400   | 0.2000 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.63            | 3%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 171      | 4.0100   | 0.0800 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.47            | 2%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 853      | 4.0300   | 0.1200 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.42            | 2%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 164      | 4.0350   | 0.1900 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.41            | 2%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 100      | 4.0650   | 0.1700 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.33            | 2%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 823      | 4.1000   | 0.0000 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.25            | 1%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 675      | 4.1250   | 0.0100 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.19            | 1%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 148      | 4.1750   | 0.0100 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.07            | 0%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 735      | 4.2200   | 0.1200 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.04             | 0%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 51       | 4.3150   | 0.1500 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.26             | 1%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 643      | 4.3400   | 0.0600 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.32             | 2%             | 0    |
| 013.02      | Fat, Mojonier, Bak Ext             | 776      | 4.3550   | 0.0900 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.36             | 2%             | 0    |

| Method Code | Analyte Name and Method | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                         |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 013.02      | Fat, Mojonnier, Bak Ext | 650      | 4.3750   | 0.0100 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>0.41</b>      | 2%             | 0    |
| 013.02      | Fat, Mojonnier, Bak Ext | 798      | 4.4600   | 0.3000 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>0.61</b>      | 3%             | 0    |
| 013.02      | Fat, Mojonnier, Bak Ext | 843      | 4.4650   | 0.5100 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>0.62</b>      | 3%             | 0    |
| 013.02      | Fat, Mojonnier, Bak Ext | 811      | 4.4700   | 0.1800 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>0.64</b>      | 3%             | 0    |
| 013.02      | Fat, Mojonnier, Bak Ext | 761      | 4.4850   | 0.0300 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>0.67</b>      | 3%             | 0    |
| 013.02      | Fat, Mojonnier, Bak Ext | 1        | 4.5300   | 0.2000 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>0.78</b>      | 4%             | 0    |
| 013.02      | Fat, Mojonnier, Bak Ext | 874      | 4.5500   | 0.0600 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>0.83</b>      | 4%             | 0    |
| 013.02      | Fat, Mojonnier, Bak Ext | 861      | 4.5600   | 0.0200 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>0.85</b>      | 4%             | 0    |
| 013.02      | Fat, Mojonnier, Bak Ext | 826      | 4.6000   | 0.0400 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>0.95</b>      | 5%             | 0    |
| 013.02      | Fat, Mojonnier, Bak Ext | 682      | 4.6450   | 0.0500 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>1.06</b>      | 5%             | 0    |
| 013.02      | Fat, Mojonnier, Bak Ext | 676      | 4.9286   | 0.0560 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>1.74</b>      | 9%             | 0    |
| 013.02      | Fat, Mojonnier, Bak Ext | 354      | 5.0400   | 0.0600 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>2.00</b>      | 10%            | 0    |
| 013.02      | Fat, Mojonnier, Bak Ext | 8        | 5.1800   | 0.1000 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>2.34</b>      | 12%            | 0    |
| 013.02      | Fat, Mojonnier, Bak Ext | 656      | 4.5800   | 0.7200 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>0.90</b>      | 4%             | 1    |
| 013.02      | Fat, Mojonnier, Bak Ext | 758      | 3.5250   | 0.1700 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-1.63</b>     | 8%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 832      | 3.5500   | 0.9200 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-1.57</b>     | 8%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 833      | 3.5800   | 0.1200 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-1.50</b>     | 7%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 757      | 3.6200   | 0.1400 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-1.40</b>     | 7%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 754      | 3.6300   | 0.0200 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-1.38</b>     | 7%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 831      | 3.6400   | 0.1800 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-1.35</b>     | 7%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 756      | 3.7600   | 0.1600 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-1.07</b>     | 5%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 835      | 3.7900   | 0.0400 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.99</b>     | 5%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 749      | 3.7950   | 0.0100 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.98</b>     | 5%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 772      | 3.8050   | 0.0300 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.96</b>     | 5%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 753      | 3.8100   | 0.0400 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.95</b>     | 5%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 834      | 3.8200   | 0.1600 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.92</b>     | 5%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 755      | 3.8400   | 0.1200 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.87</b>     | 4%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 814      | 3.8700   | 0.0600 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.80</b>     | 4%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 765      | 3.8750   | 0.0700 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.79</b>     | 4%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 748      | 3.8900   | 0.1400 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.75</b>     | 4%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 751      | 3.9000   | 0.1600 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.73</b>     | 4%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 744      | 3.9400   | 0.0600 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.63</b>     | 3%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 752      | 3.9600   | 0.2800 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.59</b>     | 3%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 810      | 4.0150   | 0.1900 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.45</b>     | 2%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 778      | 4.0250   | 0.0900 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.43</b>     | 2%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 790      | 4.0250   | 0.0300 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.43</b>     | 2%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 742      | 4.0300   | 0.0000 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.42</b>     | 2%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 739      | 4.0500   | 0.0600 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.37</b>     | 2%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 769      | 4.0500   | 0.1000 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.37</b>     | 2%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 824      | 4.0500   | 0.1000 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.37</b>     | 2%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 771      | 4.0900   | 0.1200 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.27</b>     | 1%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext | 827      | 4.0950   | 0.1300 | 4.2045        | 0.4173 | 0.1428 | 34     | <b>-0.26</b>     | 1%             | 8    |

| Method Code | Analyte Name and Method     | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-----------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                             |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 013.02      | Fat, Mojonnier, Bak Ext     | 780      | 4.1100   | 0.0800 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.23            | 1%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 740      | 4.1350   | 0.2500 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.17            | 1%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 747      | 4.1400   | 0.0200 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.15            | 1%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 812      | 4.1450   | 0.0900 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.14            | 1%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 828      | 4.1500   | 0.1200 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.13            | 1%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 813      | 4.1650   | 0.1900 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.09            | 0%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 746      | 4.1750   | 0.1100 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.07            | 0%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 794      | 4.1919   | 0.0252 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.03            | 0%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 825      | 4.2000   | 0.0000 | 4.2045        | 0.4173 | 0.1428 | 34     | -0.01            | 0%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 743      | 4.2250   | 0.0500 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.05             | 0%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 815      | 4.2350   | 0.1300 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.07             | 0%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 770      | 4.2400   | 0.0000 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.08             | 0%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 745      | 4.2500   | 0.1800 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.11             | 1%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 736      | 4.2700   | 0.0000 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.16             | 1%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 816      | 4.3000   | 0.0000 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.23             | 1%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 775      | 4.3150   | 0.0700 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.26             | 1%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 774      | 4.3850   | 0.1500 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.43             | 2%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 809      | 4.3950   | 0.3500 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.46             | 2%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 806      | 4.4150   | 0.0100 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.50             | 3%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 808      | 4.4200   | 0.1000 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.52             | 3%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 807      | 4.4300   | 0.2400 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.54             | 3%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 767      | 4.4600   | 0.0400 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.61             | 3%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 762      | 4.4750   | 0.2300 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.65             | 3%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 734      | 4.5000   | 0.0600 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.71             | 4%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 797      | 4.5250   | 0.0100 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.77             | 4%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 759      | 4.5400   | 0.0400 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.80             | 4%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 763      | 4.5500   | 0.0400 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.83             | 4%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 760      | 4.5550   | 0.2300 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.84             | 4%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 830      | 4.5850   | 0.0500 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.91             | 5%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 800      | 4.6100   | 0.2000 | 4.2045        | 0.4173 | 0.1428 | 34     | 0.97             | 5%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 803      | 4.6300   | 0.1200 | 4.2045        | 0.4173 | 0.1428 | 34     | 1.02             | 5%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 801      | 4.6350   | 0.3100 | 4.2045        | 0.4173 | 0.1428 | 34     | 1.03             | 5%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 777      | 4.6450   | 0.0100 | 4.2045        | 0.4173 | 0.1428 | 34     | 1.06             | 5%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 796      | 4.8500   | 0.0200 | 4.2045        | 0.4173 | 0.1428 | 34     | 1.55             | 8%             | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 795      | 5.0700   | 0.3800 | 4.2045        | 0.4173 | 0.1428 | 34     | 2.07             | 10%            | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 804      | 5.0750   | 0.5900 | 4.2045        | 0.4173 | 0.1428 | 34     | 2.09             | 10%            | 8    |
| 013.02      | Fat, Mojonnier, Bak Ext     | 805      | 5.0950   | 0.2300 | 4.2045        | 0.4173 | 0.1428 | 34     | 2.13             | 11%            | 8    |
| 013.03      | Fat, Roese-Gottlieb         | 618      | 4.0550   | 0.1500 |               |        | 0.1500 | 1      |                  |                |      |
| 013.10      | Fat, Soxtec-Acid Hydrolysis | 610      | 3.4000   | 0.2000 | 3.9467        | 0.4606 | 0.1922 | 9      | -1.19            | 7%             | 0    |
| 013.10      | Fat, Soxtec-Acid Hydrolysis | 539      | 3.5200   | 0.2400 | 3.9467        | 0.4606 | 0.1922 | 9      | -0.93            | 5%             | 0    |
| 013.10      | Fat, Soxtec-Acid Hydrolysis | 62       | 3.6450   | 0.1200 | 3.9467        | 0.4606 | 0.1922 | 9      | -0.65            | 4%             | 0    |
| 013.10      | Fat, Soxtec-Acid Hydrolysis | 613      | 3.8300   | 0.0000 | 3.9467        | 0.4606 | 0.1922 | 9      | -0.25            | 1%             | 0    |

| Method Code | Analyte Name and Method              | Lab Code | Lab Data  |          | Method Values |          |          |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|--------------------------------------|----------|-----------|----------|---------------|----------|----------|--------|------------------|----------------|------|
|             |                                      |          | Value     | range    | Rob Mean      | Rob SD   | R-bar    | # Labs |                  |                |      |
| 013.10      | Fat, Soxtec-Acid Hydrolysis          | 652      | 3.9000    | 0.0000   | 3.9467        | 0.4606   | 0.1922   | 9      | -0.10            | 1%             | 0    |
| 013.10      | Fat, Soxtec-Acid Hydrolysis          | 353      | 3.9800    | 0.1200   | 3.9467        | 0.4606   | 0.1922   | 9      | 0.07             | 0%             | 0    |
| 013.10      | Fat, Soxtec-Acid Hydrolysis          | 160      | 4.2040    | 0.2800   | 3.9467        | 0.4606   | 0.1922   | 9      | 0.56             | 3%             | 0    |
| 013.10      | Fat, Soxtec-Acid Hydrolysis          | 843      | 4.4650    | 0.5100   | 3.9467        | 0.4606   | 0.1922   | 9      | 1.13             | 7%             | 0    |
| 013.10      | Fat, Soxtec-Acid Hydrolysis          | 660      | 4.8600    | 0.2600   | 3.9467        | 0.4606   | 0.1922   | 9      | 1.98             | 12%            | 0    |
| 013.11      | Fat, Super Critical Fluid Extraction | 866      | 4.0500    | 0.1000   |               |          | 0.1000   | 1      |                  |                |      |
| 013.13      | Fat, Ankom- Acid Hydrolysis          | 581      | 3.9700    | 0.2800   |               |          | 0.2800   | 1      |                  |                |      |
| 015.41      | Aluminum, ICP, Dry ash               | 11       | 1915.8075 | 60.0850  | 2058.5069     | 154.7617 | 107.7913 | 4      | -0.92            | 3%             | 0    |
| 015.41      | Aluminum, ICP, Dry ash               | 49       | 1944.2200 | 11.0800  | 2058.5069     | 154.7617 | 107.7913 | 4      | -0.74            | 3%             | 0    |
| 015.41      | Aluminum, ICP, Dry ash               | 164      | 2135.0000 | 90.0000  | 2058.5069     | 154.7617 | 107.7913 | 4      | 0.49             | 2%             | 0    |
| 015.41      | Aluminum, ICP, Dry ash               | 520      | 2239.0000 | 270.0000 | 2058.5069     | 154.7617 | 107.7913 | 4      | 1.17             | 4%             | 0    |
| 015.42      | Aluminum, ICP, Open vessel           | 21       | 653.0000  | 56.0000  | 1367.6667     | 711.0284 | 154.6667 | 3      | -1.01            | 26%            | 0    |
| 015.42      | Aluminum, ICP, Open vessel           | 560      | 1375.0000 | 258.0000 | 1367.6667     | 711.0284 | 154.6667 | 3      | 0.01             | 0%             | 0    |
| 015.42      | Aluminum, ICP, Open vessel           | 616      | 2075.0000 | 150.0000 | 1367.6667     | 711.0284 | 154.6667 | 3      | 0.99             | 26%            | 0    |
| 015.43      | Aluminum, ICP, Microwave             | 353      | 523.2000  | 1.8000   | 1239.7000     | 597.4739 | 32.2000  | 4      | -1.20            | 29%            | 0    |
| 015.43      | Aluminum, ICP, Microwave             | 510      | 1080.0000 | 60.0000  | 1239.7000     | 597.4739 | 32.2000  | 4      | -0.27            | 6%             | 0    |
| 015.43      | Aluminum, ICP, Microwave             | 345      | 1405.6000 | 27.0000  | 1239.7000     | 597.4739 | 32.2000  | 4      | 0.28             | 7%             | 0    |
| 015.43      | Aluminum, ICP, Microwave             | 169      | 1950.0000 | 40.0000  | 1239.7000     | 597.4739 | 32.2000  | 4      | 1.19             | 29%            | 0    |
| 015.52      | Aluminum, ICP-MS, Open vessel        | 154      | 1630.0000 | 16.0000  |               |          | 16.0000  | 1      |                  |                |      |
| 016.00      | Arsenic, AA, Hydride                 | 619      | 0.1230    | 0.0100   |               |          | 0.0100   | 1      |                  |                |      |
| 016.99      | Arsenic, Miscellaneous               | 508      | 0.3090    | 0.0500   |               |          | 0.0500   | 1      |                  |                |      |
| 017.41      | Boron, ICP, Dry ash                  | 358      | 8.4150    | 0.0300   | 8.9925        | 0.8167   | 0.0850   | 2      | -0.71            | 3%             | 0    |
| 017.41      | Boron, ICP, Dry ash                  | 49       | 9.5700    | 0.1400   | 8.9925        | 0.8167   | 0.0850   | 2      | 0.71             | 3%             | 0    |
| 017.42      | Boron, ICP, Open vessel              | 45       | 7.9500    | 0.3000   | 8.0825        | 0.1874   | 0.2950   | 2      | -0.71            | 1%             | 0    |
| 017.42      | Boron, ICP, Open vessel              | 560      | 8.2150    | 0.2900   | 8.0825        | 0.1874   | 0.2950   | 2      | 0.71             | 1%             | 0    |
| 017.43      | Boron, ICP, Microwave                | 510      | 8.3650    | 0.4300   | 9.5000        | 1.3277   | 0.4200   | 3      | -0.85            | 6%             | 0    |
| 017.43      | Boron, ICP, Microwave                | 345      | 9.1750    | 0.0500   | 9.5000        | 1.3277   | 0.4200   | 3      | -0.24            | 2%             | 0    |
| 017.43      | Boron, ICP, Microwave                | 353      | 10.9600   | 0.7800   | 9.5000        | 1.3277   | 0.4200   | 3      | 1.10             | 8%             | 0    |
| 018.41      | Cadmium, ICP, Dry ash                | 11       | 0.1795    | 0.0030   |               |          | 0.0030   | 1      |                  |                |      |
| 018.42      | Cadmium, ICP, Open vessel            | 21       | 0.2110    | 0.0060   |               |          | 0.0060   | 1      |                  |                |      |
| 018.52      | Cadmium, ICP-MS, Open vessel         | 154      | 0.2700    | 0.0200   |               |          | 0.0200   | 1      |                  |                |      |
| 019.00      | Calcium, Ox-MnO4 Vol.                | 658      | 4.5280    | 0.1400   | 4.9353        | 0.2489   | 0.0661   | 14     | -1.64            | 4%             | 0    |
| 019.00      | Calcium, Ox-MnO4 Vol.                | 552      | 4.6000    | 0.0000   | 4.9353        | 0.2489   | 0.0661   | 14     | -1.35            | 3%             | 0    |
| 019.00      | Calcium, Ox-MnO4 Vol.                | 43       | 4.7500    | 0.1000   | 4.9353        | 0.2489   | 0.0661   | 14     | -0.74            | 2%             | 0    |
| 019.00      | Calcium, Ox-MnO4 Vol.                | 622      | 4.8375    | 0.1246   | 4.9353        | 0.2489   | 0.0661   | 14     | -0.39            | 1%             | 0    |
| 019.00      | Calcium, Ox-MnO4 Vol.                | 849      | 4.8400    | 0.0200   | 4.9353        | 0.2489   | 0.0661   | 14     | -0.38            | 1%             | 0    |
| 019.00      | Calcium, Ox-MnO4 Vol.                | 623      | 4.8554    | 0.1092   | 4.9353        | 0.2489   | 0.0661   | 14     | -0.32            | 1%             | 0    |
| 019.00      | Calcium, Ox-MnO4 Vol.                | 620      | 4.8878    | 0.0271   | 4.9353        | 0.2489   | 0.0661   | 14     | -0.19            | 0%             | 0    |
| 019.00      | Calcium, Ox-MnO4 Vol.                | 651      | 4.9285    | 0.0450   | 4.9353        | 0.2489   | 0.0661   | 14     | -0.03            | 0%             | 0    |
| 019.00      | Calcium, Ox-MnO4 Vol.                | 689      | 4.9450    | 0.0900   | 4.9353        | 0.2489   | 0.0661   | 14     | 0.04             | 0%             | 0    |
| 019.00      | Calcium, Ox-MnO4 Vol.                | 679      | 5.0500    | 0.0400   | 4.9353        | 0.2489   | 0.0661   | 14     | 0.46             | 1%             | 0    |
| 019.00      | Calcium, Ox-MnO4 Vol.                | 647      | 5.1000    | 0.0400   | 4.9353        | 0.2489   | 0.0661   | 14     | 0.66             | 2%             | 0    |

| Method Code | Analyte Name and Method          | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|----------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                  |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 019.00      | Calcium, Ox-Mn04 Vol.            | 646      | 5.2750   | 0.0900 | 4.9353        | 0.2489 | 0.0661 | 14     | <b>1.36</b>      | 3%             | 0    |
| 019.00      | Calcium, Ox-Mn04 Vol.            | 194      | 5.4500   | 0.1000 | 4.9353        | 0.2489 | 0.0661 | 14     | <b>2.07</b>      | 5%             | 0    |
| 019.00      | Calcium, Ox-Mn04 Vol.            | 681      | 5.6000   | 0.0000 | 4.9353        | 0.2489 | 0.0661 | 14     | <b>2.67</b>      | 7%             | 0    |
| 019.01      | #N/A                             | 108      | 4.8250   | 0.4300 |               |        | 0.4300 | 1      |                  |                |      |
| 019.02      | Calcium, Hach Method             | 536      | 5.0750   | 0.0300 |               |        | 0.0300 | 1      |                  |                |      |
| 019.03      | Calcium, Semiauto (Autoanalyzer) | 26       | 4.7050   | 0.0100 | 5.0115        | 0.2236 | 0.2113 | 4      | <b>-1.37</b>     | 3%             | 0    |
| 019.03      | Calcium, Semiauto (Autoanalyzer) | 36       | 5.0308   | 0.0350 | 5.0115        | 0.2236 | 0.2113 | 4      | <b>0.09</b>      | 0%             | 0    |
| 019.03      | Calcium, Semiauto (Autoanalyzer) | 43       | 5.0700   | 0.0400 | 5.0115        | 0.2236 | 0.2113 | 4      | <b>0.26</b>      | 1%             | 0    |
| 019.03      | Calcium, Semiauto (Autoanalyzer) | 686      | 5.2400   | 0.7600 | 5.0115        | 0.2236 | 0.2113 | 4      | <b>1.02</b>      | 2%             | 0    |
| 019.06      | Calcium, DCP                     | 83       | 4.7900   | 0.0800 |               |        | 0.0800 | 1      |                  |                |      |
| 019.08      | Calcium, EDTA                    | 590      | 4.5800   | 0.0200 | 4.7080        | 0.1052 | 0.0120 | 5      | <b>-1.22</b>     | 1%             | 0    |
| 019.08      | Calcium, EDTA                    | 689      | 4.6200   | 0.0000 | 4.7080        | 0.1052 | 0.0120 | 5      | <b>-0.84</b>     | 1%             | 0    |
| 019.08      | Calcium, EDTA                    | 848      | 4.7250   | 0.0100 | 4.7080        | 0.1052 | 0.0120 | 5      | <b>0.16</b>      | 0%             | 0    |
| 019.08      | Calcium, EDTA                    | 849      | 4.8050   | 0.0100 | 4.7080        | 0.1052 | 0.0120 | 5      | <b>0.92</b>      | 1%             | 0    |
| 019.08      | Calcium, EDTA                    | 871      | 4.8100   | 0.0200 | 4.7080        | 0.1052 | 0.0120 | 5      | <b>0.97</b>      | 1%             | 0    |
| 019.08      | Calcium, EDTA                    | 629      | 4.2200   | 0.0800 | 4.7080        | 0.1052 | 0.0120 | 5      | <b>-4.64</b>     | 5%             | 1    |
| 019.31      | Calcium, AAS, Dry ash            | 305      | 4.1300   | 0.0400 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>-5.11</b>     | 8%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 233      | 4.6350   | 0.1500 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>-1.71</b>     | 3%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 731      | 4.6750   | 0.1500 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>-1.44</b>     | 2%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 505      | 4.7050   | 0.0500 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>-1.23</b>     | 2%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 354      | 4.7100   | 0.0200 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>-1.20</b>     | 2%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 4        | 4.7240   | 0.1300 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>-1.11</b>     | 2%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 350      | 4.7340   | 0.0420 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>-1.04</b>     | 2%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 675      | 4.8100   | 0.0200 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>-0.53</b>     | 1%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 65       | 4.8163   | 0.0356 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>-0.48</b>     | 1%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 14       | 4.8250   | 0.0900 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>-0.43</b>     | 1%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 874      | 4.8300   | 0.0600 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>-0.39</b>     | 1%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 653      | 4.8565   | 0.0590 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>-0.21</b>     | 0%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 670      | 4.8675   | 0.0770 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>-0.14</b>     | 0%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 868      | 4.8800   | 0.0800 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>-0.05</b>     | 0%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 1        | 4.8880   | 0.0220 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>0.00</b>      | 0%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 139      | 4.9150   | 0.1500 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>0.18</b>      | 0%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 38       | 4.9250   | 0.0300 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>0.25</b>      | 0%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 205      | 4.9400   | 0.0400 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>0.35</b>      | 1%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 175      | 4.9500   | 0.1200 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>0.42</b>      | 1%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 152      | 4.9650   | 0.0900 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>0.52</b>      | 1%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 619      | 4.9700   | 0.0000 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>0.55</b>      | 1%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 650      | 4.9750   | 0.1300 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>0.59</b>      | 1%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 208      | 5.0000   | 0.0100 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>0.75</b>      | 1%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 669      | 5.0150   | 0.1100 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>0.86</b>      | 1%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 687      | 5.0500   | 0.1000 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>1.09</b>      | 2%             | 0    |
| 019.31      | Calcium, AAS, Dry ash            | 178      | 5.0750   | 0.0300 | 4.8881        | 0.1484 | 0.0692 | 29     | <b>1.26</b>      | 2%             | 0    |

| Method Code | Analyte Name and Method   | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|---------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                           |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 019.31      | Calcium, AAS, Dry ash     | 723      | 5.0850   | 0.0100 | 4.8881        | 0.1484 | 0.0692 | 29     | 1.33             | 2%             | 0    |
| 019.31      | Calcium, AAS, Dry ash     | 596      | 5.2500   | 0.1000 | 4.8881        | 0.1484 | 0.0692 | 29     | 2.44             | 4%             | 0    |
| 019.31      | Calcium, AAS, Dry ash     | 18       | 5.4500   | 0.0600 | 4.8881        | 0.1484 | 0.0692 | 29     | 3.79             | 6%             | 0    |
| 019.32      | Calcium, AAS, Open vessel | 631      | 4.2750   | 0.0500 | 4.8996        | 0.1126 | 0.0791 | 11     | -5.54            | 6%             | 0    |
| 019.32      | Calcium, AAS, Open vessel | 26       | 4.6850   | 0.0300 | 4.8996        | 0.1126 | 0.0791 | 11     | -1.91            | 2%             | 0    |
| 019.32      | Calcium, AAS, Open vessel | 13       | 4.8300   | 0.2600 | 4.8996        | 0.1126 | 0.0791 | 11     | -0.62            | 1%             | 0    |
| 019.32      | Calcium, AAS, Open vessel | 612      | 4.8600   | 0.0000 | 4.8996        | 0.1126 | 0.0791 | 11     | -0.35            | 0%             | 0    |
| 019.32      | Calcium, AAS, Open vessel | 722      | 4.8891   | 0.0254 | 4.8996        | 0.1126 | 0.0791 | 11     | -0.09            | 0%             | 0    |
| 019.32      | Calcium, AAS, Open vessel | 36       | 4.9000   | 0.0201 | 4.8996        | 0.1126 | 0.0791 | 11     | 0.00             | 0%             | 0    |
| 019.32      | Calcium, AAS, Open vessel | 169      | 4.9450   | 0.0500 | 4.8996        | 0.1126 | 0.0791 | 11     | 0.40             | 0%             | 0    |
| 019.32      | Calcium, AAS, Open vessel | 263      | 4.9673   | 0.0342 | 4.8996        | 0.1126 | 0.0791 | 11     | 0.60             | 1%             | 0    |
| 019.32      | Calcium, AAS, Open vessel | 35       | 4.9750   | 0.0100 | 4.8996        | 0.1126 | 0.0791 | 11     | 0.67             | 1%             | 0    |
| 019.32      | Calcium, AAS, Open vessel | 656      | 4.9850   | 0.2300 | 4.8996        | 0.1126 | 0.0791 | 11     | 0.76             | 1%             | 0    |
| 019.32      | Calcium, AAS, Open vessel | 609      | 5.1500   | 0.1600 | 4.8996        | 0.1126 | 0.0791 | 11     | 2.22             | 3%             | 0    |
| 019.33      | Calcium, AAS, Microwave   | 33       | 4.4000   | 0.2000 | 4.8925        | 0.6965 | 0.1850 | 2      | -0.71            | 5%             | 0    |
| 019.33      | Calcium, AAS, Microwave   | 10       | 5.3850   | 0.1700 | 4.8925        | 0.6965 | 0.1850 | 2      | 0.71             | 5%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 89       | 4.0600   | 0.0400 | 4.7895        | 0.1156 | 0.0623 | 33     | -6.31            | 8%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 300      | 4.3850   | 0.0900 | 4.7895        | 0.1156 | 0.0623 | 33     | -3.50            | 4%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 98       | 4.5200   | 0.0600 | 4.7895        | 0.1156 | 0.0623 | 33     | -2.33            | 3%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 144      | 4.6350   | 0.1300 | 4.7895        | 0.1156 | 0.0623 | 33     | -1.34            | 2%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 682      | 4.6400   | 0.0400 | 4.7895        | 0.1156 | 0.0623 | 33     | -1.29            | 2%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 550      | 4.6505   | 0.0330 | 4.7895        | 0.1156 | 0.0623 | 33     | -1.20            | 1%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 553      | 4.6700   | 0.1800 | 4.7895        | 0.1156 | 0.0623 | 33     | -1.03            | 1%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 19       | 4.7250   | 0.1500 | 4.7895        | 0.1156 | 0.0623 | 33     | -0.56            | 1%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 407      | 4.7250   | 0.0500 | 4.7895        | 0.1156 | 0.0623 | 33     | -0.56            | 1%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 49       | 4.7500   | 0.0200 | 4.7895        | 0.1156 | 0.0623 | 33     | -0.34            | 0%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 298      | 4.7600   | 0.0200 | 4.7895        | 0.1156 | 0.0623 | 33     | -0.26            | 0%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 848      | 4.7650   | 0.0300 | 4.7895        | 0.1156 | 0.0623 | 33     | -0.21            | 0%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 148      | 4.7685   | 0.0210 | 4.7895        | 0.1156 | 0.0623 | 33     | -0.18            | 0%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 695      | 4.7750   | 0.0100 | 4.7895        | 0.1156 | 0.0623 | 33     | -0.13            | 0%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 358      | 4.7800   | 0.0000 | 4.7895        | 0.1156 | 0.0623 | 33     | -0.08            | 0%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 425      | 4.7850   | 0.0100 | 4.7895        | 0.1156 | 0.0623 | 33     | -0.04            | 0%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 229      | 4.7900   | 0.0200 | 4.7895        | 0.1156 | 0.0623 | 33     | 0.00             | 0%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 242      | 4.8000   | 0.2600 | 4.7895        | 0.1156 | 0.0623 | 33     | 0.09             | 0%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 610      | 4.8000   | 0.1000 | 4.7895        | 0.1156 | 0.0623 | 33     | 0.09             | 0%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 11       | 4.8174   | 0.0397 | 4.7895        | 0.1156 | 0.0623 | 33     | 0.24             | 0%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 4        | 4.8190   | 0.0120 | 4.7895        | 0.1156 | 0.0623 | 33     | 0.26             | 0%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 164      | 4.8350   | 0.0500 | 4.7895        | 0.1156 | 0.0623 | 33     | 0.39             | 0%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 511      | 4.8400   | 0.1400 | 4.7895        | 0.1156 | 0.0623 | 33     | 0.44             | 1%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 598      | 4.8660   | 0.0260 | 4.7895        | 0.1156 | 0.0623 | 33     | 0.66             | 1%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 171      | 4.8700   | 0.0400 | 4.7895        | 0.1156 | 0.0623 | 33     | 0.70             | 1%             | 0    |
| 019.41      | Calcium, ICP, Dry ash     | 512      | 4.8765   | 0.1130 | 4.7895        | 0.1156 | 0.0623 | 33     | 0.75             | 1%             | 0    |

| Method Code | Analyte Name and Method      | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                              |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 019.41      | Calcium, ICP, Dry ash        | 26       | 4.8800   | 0.1400 | 4.7895        | 0.1156 | 0.0623 | 33     | <b>0.78</b>      | 1%             | 0    |
| 019.41      | Calcium, ICP, Dry ash        | 8        | 4.8900   | 0.0600 | 4.7895        | 0.1156 | 0.0623 | 33     | <b>0.87</b>      | 1%             | 0    |
| 019.41      | Calcium, ICP, Dry ash        | 100      | 4.8950   | 0.0700 | 4.7895        | 0.1156 | 0.0623 | 33     | <b>0.91</b>      | 1%             | 0    |
| 019.41      | Calcium, ICP, Dry ash        | 51       | 4.9050   | 0.0100 | 4.7895        | 0.1156 | 0.0623 | 33     | <b>1.00</b>      | 1%             | 0    |
| 019.41      | Calcium, ICP, Dry ash        | 413      | 5.0400   | 0.0200 | 4.7895        | 0.1156 | 0.0623 | 33     | <b>2.17</b>      | 3%             | 0    |
| 019.41      | Calcium, ICP, Dry ash        | 226      | 5.2300   | 0.0400 | 4.7895        | 0.1156 | 0.0623 | 33     | <b>3.81</b>      | 5%             | 0    |
| 019.41      | Calcium, ICP, Dry ash        | 265      | 5.5150   | 0.0300 | 4.7895        | 0.1156 | 0.0623 | 33     | <b>6.28</b>      | 8%             | 0    |
| 019.41      | Calcium, ICP, Dry ash        | 3        | 4.7850   | 0.5700 | 4.7895        | 0.1156 | 0.0623 | 33     | <b>-0.04</b>     | 0%             | 1    |
| 019.41      | Calcium, ICP, Dry ash        | 520      | 4.8500   | 0.5000 | 4.7895        | 0.1156 | 0.0623 | 33     | <b>0.52</b>      | 1%             | 1    |
| 019.42      | Calcium, ICP, Open vessel    | 366      | 4.5300   | 0.0200 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>-1.52</b>     | 4%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 616      | 4.5950   | 0.0100 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>-1.28</b>     | 4%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 106      | 4.6550   | 0.0100 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>-1.07</b>     | 3%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 98       | 4.7500   | 0.1000 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>-0.72</b>     | 2%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 693      | 4.8050   | 0.0900 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>-0.52</b>     | 1%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 504      | 4.8280   | 0.1240 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>-0.43</b>     | 1%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 187      | 4.8550   | 0.0100 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>-0.34</b>     | 1%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 278      | 4.8750   | 0.0700 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>-0.26</b>     | 1%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 560      | 4.9300   | 0.0600 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>-0.06</b>     | 0%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 726      | 4.9745   | 0.0290 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>0.10</b>      | 0%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 613      | 5.0100   | 0.1600 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>0.23</b>      | 1%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 45       | 5.1000   | 0.1000 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>0.56</b>      | 2%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 199      | 5.1000   | 0.1600 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>0.56</b>      | 2%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 190      | 5.1450   | 0.0900 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>0.72</b>      | 2%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 160      | 5.3573   | 0.0000 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>1.50</b>      | 4%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 202      | 5.4000   | 0.1800 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>1.65</b>      | 5%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 37       | 5.4100   | 0.0400 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>1.69</b>      | 5%             | 0    |
| 019.42      | Calcium, ICP, Open vessel    | 21       | 5.0900   | 0.3400 | 4.9470        | 0.2741 | 0.0737 | 17     | <b>0.52</b>      | 1%             | 1    |
| 019.43      | Calcium, ICP, Microwave      | 353      | 4.2500   | 0.0200 | 4.7898        | 0.2278 | 0.0991 | 10     | <b>-2.37</b>     | 6%             | 0    |
| 019.43      | Calcium, ICP, Microwave      | 28       | 4.3800   | 0.1600 | 4.7898        | 0.2278 | 0.0991 | 10     | <b>-1.80</b>     | 4%             | 0    |
| 019.43      | Calcium, ICP, Microwave      | 345      | 4.5500   | 0.0200 | 4.7898        | 0.2278 | 0.0991 | 10     | <b>-1.05</b>     | 3%             | 0    |
| 019.43      | Calcium, ICP, Microwave      | 294      | 4.7150   | 0.0700 | 4.7898        | 0.2278 | 0.0991 | 10     | <b>-0.33</b>     | 1%             | 0    |
| 019.43      | Calcium, ICP, Microwave      | 510      | 4.7600   | 0.0000 | 4.7898        | 0.2278 | 0.0991 | 10     | <b>-0.13</b>     | 0%             | 0    |
| 019.43      | Calcium, ICP, Microwave      | 121      | 4.9265   | 0.1770 | 4.7898        | 0.2278 | 0.0991 | 10     | <b>0.60</b>      | 1%             | 0    |
| 019.43      | Calcium, ICP, Microwave      | 38       | 4.9400   | 0.2000 | 4.7898        | 0.2278 | 0.0991 | 10     | <b>0.66</b>      | 2%             | 0    |
| 019.43      | Calcium, ICP, Microwave      | 27       | 4.9510   | 0.0300 | 4.7898        | 0.2278 | 0.0991 | 10     | <b>0.71</b>      | 2%             | 0    |
| 019.43      | Calcium, ICP, Microwave      | 508      | 5.0016   | 0.1041 | 4.7898        | 0.2278 | 0.0991 | 10     | <b>0.93</b>      | 2%             | 0    |
| 019.43      | Calcium, ICP, Microwave      | 42       | 5.0050   | 0.2100 | 4.7898        | 0.2278 | 0.0991 | 10     | <b>0.94</b>      | 2%             | 0    |
| 019.52      | Calcium, ICP-MS, Open vessel | 16       | 4.4900   | 0.3600 | 4.7187        | 0.3234 | 0.2560 | 2      | <b>-0.71</b>     | 2%             | 0    |
| 019.52      | Calcium, ICP-MS, Open vessel | 154      | 4.9473   | 0.1520 | 4.7187        | 0.3234 | 0.2560 | 2      | <b>0.71</b>      | 2%             | 0    |
| 019.53      | Calcium, ICP-MS, Microwave   | 572      | 4.4700   | 0.6800 | 4.5485        | 0.1110 | 0.4460 | 2      | <b>-0.71</b>     | 1%             | 0    |
| 019.53      | Calcium, ICP-MS, Microwave   | 39       | 4.6270   | 0.2120 | 4.5485        | 0.1110 | 0.4460 | 2      | <b>0.71</b>      | 1%             | 0    |
| 019.99      | Calcium, Miscellaneous       | 676      | 4.7540   | 0.0040 | 5.1991        | 0.4436 | 0.1203 | 4      | <b>-1.00</b>     | 4%             | 0    |



| Method Code | Analyte Name and Method       | Lab Code | Lab Data |         | Method Values |         |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-------------------------------|----------|----------|---------|---------------|---------|--------|--------|------------------|----------------|------|
|             |                               |          | Value    | range   | Rob Mean      | Rob SD  | R-bar  | # Labs |                  |                |      |
| 019.99      | Calcium, Miscellaneous        | 563      | 4.9425   | 0.0770  | 5.1991        | 0.4436  | 0.1203 | 4      | -0.58            | 2%             | 0    |
| 019.99      | Calcium, Miscellaneous        | 852      | 5.3500   | 0.1000  | 5.1991        | 0.4436  | 0.1203 | 4      | 0.34             | 1%             | 0    |
| 019.99      | Calcium, Miscellaneous        | 47       | 5.7500   | 0.3000  | 5.1991        | 0.4436  | 0.1203 | 4      | 1.24             | 5%             | 0    |
| 019.99      | Calcium, Miscellaneous        | 692      | -1.0000  | 0.0000  | 5.1991        | 0.4436  | 0.1203 | 4      | -13.98           | 60%            | 3    |
| 020.31      | Chromium, AAS, Dry ash        | 164      | 12.0000  | 2.0000  |               |         | 2.0000 | 1      |                  |                |      |
| 020.32      | Chromium, AAS, Open vessel    | 722      | 26.8435  | 0.3710  |               |         | 0.3710 | 1      |                  |                |      |
| 020.41      | Chromium, ICP, Dry ash        | 11       | 12.6933  | 0.6615  |               |         | 0.6615 | 1      |                  |                |      |
| 020.42      | Chromium, ICP, Open vessel    | 560      | 14.4000  | 3.6000  | 15.5833       | 1.0611  | 2.1000 | 3      | -1.12            | 4%             | 0    |
| 020.42      | Chromium, ICP, Open vessel    | 616      | 15.9000  | 1.4000  | 15.5833       | 1.0611  | 2.1000 | 3      | 0.30             | 1%             | 0    |
| 020.42      | Chromium, ICP, Open vessel    | 21       | 16.4500  | 1.3000  | 15.5833       | 1.0611  | 2.1000 | 3      | 0.82             | 3%             | 0    |
| 020.43      | Chromium, ICP, Microwave      | 510      | 15.6100  | 0.0400  | 16.7113       | 1.5574  | 0.9915 | 2      | -0.71            | 3%             | 0    |
| 020.43      | Chromium, ICP, Microwave      | 508      | 17.8125  | 1.9430  | 16.7113       | 1.5574  | 0.9915 | 2      | 0.71             | 3%             | 0    |
| 020.52      | Chromium, ICP-MS, Open vessel | 154      | 17.1000  | 0.4000  |               |         | 0.4000 | 1      |                  |                |      |
| 020.99      | Chromium, Miscellaneous       | 675      | 11.5250  | 0.6300  | 12.3050       | 1.1031  | 0.3800 | 2      | -0.71            | 3%             | 0    |
| 020.99      | Chromium, Miscellaneous       | 563      | 13.0850  | 0.1300  | 12.3050       | 1.1031  | 0.3800 | 2      | 0.71             | 3%             | 0    |
| 021.31      | Cobalt, AAS, Dry ash          | 164      | 11.9500  | 1.3000  | 12.8750       | 1.3081  | 0.7500 | 2      | -0.71            | 4%             | 0    |
| 021.31      | Cobalt, AAS, Dry ash          | 619      | 13.8000  | 0.2000  | 12.8750       | 1.3081  | 0.7500 | 2      | 0.71             | 4%             | 0    |
| 021.32      | Cobalt, AAS, Open vessel      | 722      | 17.0653  | 1.4964  |               |         | 1.4964 | 1      |                  |                |      |
| 021.33      | Cobalt, AAS, Microwave        | 610      | 10.0750  | 0.0700  |               |         | 0.0700 | 1      |                  |                |      |
| 021.41      | Cobalt, ICP, Dry ash          | 208      | 7.4200   | 0.2600  | 10.4556       | 2.0704  | 0.2708 | 4      | -1.47            | 15%            | 0    |
| 021.41      | Cobalt, ICP, Dry ash          | 425      | 10.8500  | 0.1000  | 10.4556       | 2.0704  | 0.2708 | 4      | 0.19             | 2%             | 0    |
| 021.41      | Cobalt, ICP, Dry ash          | 11       | 11.7525  | 0.5230  | 10.4556       | 2.0704  | 0.2708 | 4      | 0.63             | 6%             | 0    |
| 021.41      | Cobalt, ICP, Dry ash          | 171      | 11.8000  | 0.2000  | 10.4556       | 2.0704  | 0.2708 | 4      | 0.65             | 6%             | 0    |
| 021.42      | Cobalt, ICP, Open vessel      | 693      | 8.2650   | 0.3100  | 12.1390       | 1.3372  | 1.5467 | 6      | -2.90            | 16%            | 0    |
| 021.42      | Cobalt, ICP, Open vessel      | 560      | 11.3500  | 1.9000  | 12.1390       | 1.3372  | 1.5467 | 6      | -0.59            | 3%             | 0    |
| 021.42      | Cobalt, ICP, Open vessel      | 616      | 11.9000  | 1.2000  | 12.1390       | 1.3372  | 1.5467 | 6      | -0.18            | 1%             | 0    |
| 021.42      | Cobalt, ICP, Open vessel      | 106      | 12.6000  | 0.2000  | 12.1390       | 1.3372  | 1.5467 | 6      | 0.34             | 2%             | 0    |
| 021.42      | Cobalt, ICP, Open vessel      | 21       | 13.0500  | 0.7000  | 12.1390       | 1.3372  | 1.5467 | 6      | 0.68             | 4%             | 0    |
| 021.42      | Cobalt, ICP, Open vessel      | 504      | 13.5750  | 4.9700  | 12.1390       | 1.3372  | 1.5467 | 6      | 1.07             | 6%             | 0    |
| 021.43      | Cobalt, ICP, Microwave        | 169      | 10.5500  | 0.1000  | 12.3606       | 1.4845  | 0.2498 | 4      | -1.22            | 7%             | 0    |
| 021.43      | Cobalt, ICP, Microwave        | 508      | 12.3075  | 0.4290  | 12.3606       | 1.4845  | 0.2498 | 4      | -0.04            | 0%             | 0    |
| 021.43      | Cobalt, ICP, Microwave        | 38       | 12.4000  | 0.0000  | 12.3606       | 1.4845  | 0.2498 | 4      | 0.03             | 0%             | 0    |
| 021.43      | Cobalt, ICP, Microwave        | 510      | 14.1850  | 0.4700  | 12.3606       | 1.4845  | 0.2498 | 4      | 1.23             | 7%             | 0    |
| 021.52      | Cobalt, ICP-MS, Open vessel   | 154      | 12.2000  | 0.4000  |               |         | 0.4000 | 1      |                  |                |      |
| 021.99      | Cobalt, Miscellaneous         | 563      | 13.7250  | 0.2100  |               |         | 0.2100 | 1      |                  |                |      |
| 022.04      | Copper, DCP                   | 83       | 185.0000 | 4.0000  |               |         | 4.0000 | 1      |                  |                |      |
| 022.31      | Copper, AAS, Dry ash          | 646      | 138.4250 | 2.0500  | 176.7689      | 10.3353 | 4.2378 | 18     | -3.71            | 11%            | 0    |
| 022.31      | Copper, AAS, Dry ash          | 305      | 159.6500 | 0.4800  | 176.7689      | 10.3353 | 4.2378 | 18     | -1.66            | 5%             | 0    |
| 022.31      | Copper, AAS, Dry ash          | 505      | 162.5000 | 1.0000  | 176.7689      | 10.3353 | 4.2378 | 18     | -1.38            | 4%             | 0    |
| 022.31      | Copper, AAS, Dry ash          | 866      | 166.4400 | 6.5200  | 176.7689      | 10.3353 | 4.2378 | 18     | -1.00            | 3%             | 0    |
| 022.31      | Copper, AAS, Dry ash          | 175      | 169.0000 | 18.0000 | 176.7689      | 10.3353 | 4.2378 | 18     | -0.75            | 2%             | 0    |
| 022.31      | Copper, AAS, Dry ash          | 669      | 170.6050 | 4.0100  | 176.7689      | 10.3353 | 4.2378 | 18     | -0.60            | 2%             | 0    |

| Method Code | Analyte Name and Method  | Lab Code | Lab Data |         | Method Values |         |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|--------------------------|----------|----------|---------|---------------|---------|--------|--------|------------------|----------------|------|
|             |                          |          | Value    | range   | Rob Mean      | Rob SD  | R-bar  | # Labs |                  |                |      |
| 022.31      | Copper, AAS, Dry ash     | 178      | 178.5000 | 1.0000  | 176.7689      | 10.3353 | 4.2378 | 18     | 0.17             | 0%             | 0    |
| 022.31      | Copper, AAS, Dry ash     | 208      | 178.5000 | 1.0000  | 176.7689      | 10.3353 | 4.2378 | 18     | 0.17             | 0%             | 0    |
| 022.31      | Copper, AAS, Dry ash     | 868      | 178.5000 | 5.0000  | 176.7689      | 10.3353 | 4.2378 | 18     | 0.17             | 0%             | 0    |
| 022.31      | Copper, AAS, Dry ash     | 731      | 179.0000 | 12.0000 | 176.7689      | 10.3353 | 4.2378 | 18     | 0.22             | 1%             | 0    |
| 022.31      | Copper, AAS, Dry ash     | 354      | 179.3800 | 1.7200  | 176.7689      | 10.3353 | 4.2378 | 18     | 0.25             | 1%             | 0    |
| 022.31      | Copper, AAS, Dry ash     | 350      | 180.0000 | 2.0000  | 176.7689      | 10.3353 | 4.2378 | 18     | 0.31             | 1%             | 0    |
| 022.31      | Copper, AAS, Dry ash     | 653      | 181.0500 | 1.5000  | 176.7689      | 10.3353 | 4.2378 | 18     | 0.41             | 1%             | 0    |
| 022.31      | Copper, AAS, Dry ash     | 619      | 183.0000 | 2.0000  | 176.7689      | 10.3353 | 4.2378 | 18     | 0.60             | 2%             | 0    |
| 022.31      | Copper, AAS, Dry ash     | 14       | 185.5000 | 11.0000 | 176.7689      | 10.3353 | 4.2378 | 18     | 0.84             | 2%             | 0    |
| 022.31      | Copper, AAS, Dry ash     | 596      | 188.0000 | 0.0000  | 176.7689      | 10.3353 | 4.2378 | 18     | 1.09             | 3%             | 0    |
| 022.31      | Copper, AAS, Dry ash     | 590      | 188.5000 | 7.0000  | 176.7689      | 10.3353 | 4.2378 | 18     | 1.14             | 3%             | 0    |
| 022.31      | Copper, AAS, Dry ash     | 4        | 189.0000 | 0.0000  | 176.7689      | 10.3353 | 4.2378 | 18     | 1.18             | 3%             | 0    |
| 022.31      | Copper, AAS, Dry ash     | 675      | 159.2950 | 79.0500 | 176.7689      | 10.3353 | 4.2378 | 18     | -1.69            | 5%             | 1    |
| 022.32      | Copper, AAS, Open vessel | 35       | 171.5000 | 1.0000  | 187.0219      | 15.3211 | 3.9527 | 5      | -1.01            | 4%             | 0    |
| 022.32      | Copper, AAS, Open vessel | 656      | 179.9750 | 1.2900  | 187.0219      | 15.3211 | 3.9527 | 5      | -0.46            | 2%             | 0    |
| 022.32      | Copper, AAS, Open vessel | 13       | 181.5000 | 7.0000  | 187.0219      | 15.3211 | 3.9527 | 5      | -0.36            | 1%             | 0    |
| 022.32      | Copper, AAS, Open vessel | 38       | 190.5000 | 9.0000  | 187.0219      | 15.3211 | 3.9527 | 5      | 0.23             | 1%             | 0    |
| 022.32      | Copper, AAS, Open vessel | 722      | 211.6343 | 1.4737  | 187.0219      | 15.3211 | 3.9527 | 5      | 1.61             | 7%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 3        | 140.5000 | 3.0000  | 174.7809      | 13.0550 | 4.2909 | 29     | -2.63            | 10%            | 0    |
| 022.41      | Copper, ICP, Dry ash     | 148      | 154.6000 | 4.6000  | 174.7809      | 13.0550 | 4.2909 | 29     | -1.55            | 6%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 511      | 159.5000 | 5.0000  | 174.7809      | 13.0550 | 4.2909 | 29     | -1.17            | 4%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 49       | 162.0000 | 1.8200  | 174.7809      | 13.0550 | 4.2909 | 29     | -0.98            | 4%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 26       | 162.5000 | 1.0000  | 174.7809      | 13.0550 | 4.2909 | 29     | -0.94            | 4%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 171      | 164.0000 | 2.0000  | 174.7809      | 13.0550 | 4.2909 | 29     | -0.83            | 3%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 553      | 166.0000 | 8.0000  | 174.7809      | 13.0550 | 4.2909 | 29     | -0.67            | 3%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 229      | 167.0000 | 4.0000  | 174.7809      | 13.0550 | 4.2909 | 29     | -0.60            | 2%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 550      | 167.6500 | 11.9000 | 174.7809      | 13.0550 | 4.2909 | 29     | -0.55            | 2%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 8        | 168.4300 | 1.6400  | 174.7809      | 13.0550 | 4.2909 | 29     | -0.49            | 2%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 226      | 169.0000 | 2.0000  | 174.7809      | 13.0550 | 4.2909 | 29     | -0.44            | 2%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 98       | 173.0000 | 8.0000  | 174.7809      | 13.0550 | 4.2909 | 29     | -0.14            | 1%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 164      | 173.0000 | 6.0000  | 174.7809      | 13.0550 | 4.2909 | 29     | -0.14            | 1%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 242      | 173.0000 | 4.0000  | 174.7809      | 13.0550 | 4.2909 | 29     | -0.14            | 1%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 11       | 173.4425 | 1.0350  | 174.7809      | 13.0550 | 4.2909 | 29     | -0.10            | 0%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 695      | 173.4550 | 3.7100  | 174.7809      | 13.0550 | 4.2909 | 29     | -0.10            | 0%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 682      | 173.5500 | 0.1000  | 174.7809      | 13.0550 | 4.2909 | 29     | -0.09            | 0%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 610      | 174.5000 | 7.0000  | 174.7809      | 13.0550 | 4.2909 | 29     | -0.02            | 0%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 358      | 177.2850 | 7.6900  | 174.7809      | 13.0550 | 4.2909 | 29     | 0.19             | 1%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 520      | 181.5000 | 11.0000 | 174.7809      | 13.0550 | 4.2909 | 29     | 0.51             | 2%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 598      | 183.5000 | 11.0000 | 174.7809      | 13.0550 | 4.2909 | 29     | 0.67             | 2%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 51       | 183.9100 | 0.9400  | 174.7809      | 13.0550 | 4.2909 | 29     | 0.70             | 3%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 4        | 184.0000 | 0.0000  | 174.7809      | 13.0550 | 4.2909 | 29     | 0.71             | 3%             | 0    |
| 022.41      | Copper, ICP, Dry ash     | 512      | 184.8000 | 2.2000  | 174.7809      | 13.0550 | 4.2909 | 29     | 0.77             | 3%             | 0    |

| Method Code | Analyte Name and Method     | Lab Code | Lab Data  |         | Method Values |         |         |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-----------------------------|----------|-----------|---------|---------------|---------|---------|--------|------------------|----------------|------|
|             |                             |          | Value     | range   | Rob Mean      | Rob SD  | R-bar   | # Labs |                  |                |      |
| 022.41      | Copper, ICP, Dry ash        | 425      | 190.5000  | 1.8000  | 174.7809      | 13.0550 | 4.2909  | 29     | <b>1.20</b>      | 4%             | 0    |
| 022.41      | Copper, ICP, Dry ash        | 100      | 192.0000  | 6.0000  | 174.7809      | 13.0550 | 4.2909  | 29     | <b>1.32</b>      | 5%             | 0    |
| 022.41      | Copper, ICP, Dry ash        | 208      | 192.0000  | 6.0000  | 174.7809      | 13.0550 | 4.2909  | 29     | <b>1.32</b>      | 5%             | 0    |
| 022.41      | Copper, ICP, Dry ash        | 407      | 194.5000  | 3.0000  | 174.7809      | 13.0550 | 4.2909  | 29     | <b>1.51</b>      | 6%             | 0    |
| 022.41      | Copper, ICP, Dry ash        | 265      | 196.0000  | 0.0000  | 174.7809      | 13.0550 | 4.2909  | 29     | <b>1.63</b>      | 6%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 613      | 162.0000  | 6.0000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>-1.41</b>     | 6%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 726      | 162.1000  | 0.6000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>-1.40</b>     | 6%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 98       | 166.0000  | 4.0000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>-1.15</b>     | 5%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 693      | 168.4500  | 0.5000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>-0.99</b>     | 4%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 278      | 173.0000  | 2.0000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>-0.70</b>     | 3%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 187      | 175.7000  | 2.2800  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>-0.52</b>     | 2%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 35       | 176.5000  | 1.0000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>-0.47</b>     | 2%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 21       | 179.0000  | 2.0000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>-0.31</b>     | 1%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 366      | 179.0000  | 6.0000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>-0.31</b>     | 1%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 413      | 184.5000  | 1.0000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>0.05</b>      | 0%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 45       | 185.0000  | 2.0000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>0.08</b>      | 0%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 190      | 185.3600  | 0.2400  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>0.10</b>      | 0%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 199      | 188.8000  | 7.6000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>0.33</b>      | 1%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 106      | 192.0000  | 2.0000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>0.53</b>      | 2%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 616      | 192.5000  | 11.0000 | 183.7571      | 15.4479 | 3.0695  | 19     | <b>0.57</b>      | 2%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 37       | 203.5000  | 3.0000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>1.28</b>      | 5%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 202      | 204.3500  | 0.1000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>1.33</b>      | 6%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 560      | 205.5000  | 7.0000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>1.41</b>      | 6%             | 0    |
| 022.42      | Copper, ICP, Open vessel    | 160      | 218.0000  | 0.0000  | 183.7571      | 15.4479 | 3.0695  | 19     | <b>2.22</b>      | 9%             | 0    |
| 022.43      | Copper, ICP, Microwave      | 169      | 161.0000  | 4.0000  | 180.0532      | 14.6473 | 6.0039  | 11     | <b>-1.30</b>     | 5%             | 0    |
| 022.43      | Copper, ICP, Microwave      | 353      | 164.5500  | 4.3000  | 180.0532      | 14.6473 | 6.0039  | 11     | <b>-1.06</b>     | 4%             | 0    |
| 022.43      | Copper, ICP, Microwave      | 846      | 169.2850  | 2.8900  | 180.0532      | 14.6473 | 6.0039  | 11     | <b>-0.74</b>     | 3%             | 0    |
| 022.43      | Copper, ICP, Microwave      | 345      | 170.4000  | 6.6000  | 180.0532      | 14.6473 | 6.0039  | 11     | <b>-0.66</b>     | 3%             | 0    |
| 022.43      | Copper, ICP, Microwave      | 508      | 173.1195  | 17.1990 | 180.0532      | 14.6473 | 6.0039  | 11     | <b>-0.47</b>     | 2%             | 0    |
| 022.43      | Copper, ICP, Microwave      | 121      | 185.8220  | 0.5340  | 180.0532      | 14.6473 | 6.0039  | 11     | <b>0.39</b>      | 2%             | 0    |
| 022.43      | Copper, ICP, Microwave      | 38       | 186.5000  | 1.0000  | 180.0532      | 14.6473 | 6.0039  | 11     | <b>0.44</b>      | 2%             | 0    |
| 022.43      | Copper, ICP, Microwave      | 510      | 186.5000  | 5.0000  | 180.0532      | 14.6473 | 6.0039  | 11     | <b>0.44</b>      | 2%             | 0    |
| 022.43      | Copper, ICP, Microwave      | 42       | 189.0000  | 14.0000 | 180.0532      | 14.6473 | 6.0039  | 11     | <b>0.61</b>      | 2%             | 0    |
| 022.43      | Copper, ICP, Microwave      | 27       | 193.8140  | 7.9300  | 180.0532      | 14.6473 | 6.0039  | 11     | <b>0.94</b>      | 4%             | 0    |
| 022.43      | Copper, ICP, Microwave      | 294      | 200.5950  | 2.5900  | 180.0532      | 14.6473 | 6.0039  | 11     | <b>1.40</b>      | 6%             | 0    |
| 022.52      | Copper, ICP-MS, Open vessel | 154      | 157.5000  | 3.0000  |               |         | 3.0000  | 1      |                  |                |      |
| 022.53      | Copper, ICP-MS, Microwave   | 572      | 174.5000  | 17.0000 | 179.3750      | 6.8943  | 10.3500 | 2      | <b>-0.71</b>     | 1%             | 0    |
| 022.53      | Copper, ICP-MS, Microwave   | 39       | 184.2500  | 3.7000  | 179.3750      | 6.8943  | 10.3500 | 2      | <b>0.71</b>      | 1%             | 0    |
| 022.99      | Copper, Miscellaneous       | 563      | 189.0350  | 3.9700  | 179.3750      | 6.8943  | 3.9700  | 1      | <b>1.40</b>      | 3%             | 0    |
| 022.99      | Copper, Miscellaneous       | 692      | -1.0000   | 0.0000  | 179.3750      | 6.8943  | 3.9700  | 1      | <b>-26.16</b>    | 50%            | 3    |
| 023.01      | Fluorine, Ion Sel Elect     | 619      | 0.0040    | 0.0000  |               |         | 0.0000  | 1      |                  |                |      |
| 025.04      | Iron, DCP                   | 83       | 1131.5000 | 25.0000 |               |         | 25.0000 | 1      |                  |                |      |

| Method Code | Analyte Name and Method | Lab Code | Lab Data  |          | Method Values |          |         |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-------------------------|----------|-----------|----------|---------------|----------|---------|--------|------------------|----------------|------|
|             |                         |          | Value     | range    | Rob Mean      | Rob SD   | R-bar   | # Labs |                  |                |      |
| 025.31      | Iron, AAS, Dry ash      | 596      | 636.5000  | 13.0000  | 1010.6833     | 62.4452  | 23.3712 | 17     | -5.99            | 19%            | 0    |
| 025.31      | Iron, AAS, Dry ash      | 305      | 796.2550  | 10.3700  | 1010.6833     | 62.4452  | 23.3712 | 17     | -3.43            | 11%            | 0    |
| 025.31      | Iron, AAS, Dry ash      | 874      | 896.0000  | 32.0000  | 1010.6833     | 62.4452  | 23.3712 | 17     | -1.84            | 6%             | 0    |
| 025.31      | Iron, AAS, Dry ash      | 4        | 962.5000  | 1.0000   | 1010.6833     | 62.4452  | 23.3712 | 17     | -0.77            | 2%             | 0    |
| 025.31      | Iron, AAS, Dry ash      | 354      | 977.3300  | 1.6600   | 1010.6833     | 62.4452  | 23.3712 | 17     | -0.53            | 2%             | 0    |
| 025.31      | Iron, AAS, Dry ash      | 38       | 988.0000  | 6.0000   | 1010.6833     | 62.4452  | 23.3712 | 17     | -0.36            | 1%             | 0    |
| 025.31      | Iron, AAS, Dry ash      | 208      | 1006.5000 | 7.0000   | 1010.6833     | 62.4452  | 23.3712 | 17     | -0.07            | 0%             | 0    |
| 025.31      | Iron, AAS, Dry ash      | 670      | 1009.0000 | 2.0000   | 1010.6833     | 62.4452  | 23.3712 | 17     | -0.03            | 0%             | 0    |
| 025.31      | Iron, AAS, Dry ash      | 619      | 1012.5000 | 13.0000  | 1010.6833     | 62.4452  | 23.3712 | 17     | 0.03             | 0%             | 0    |
| 025.31      | Iron, AAS, Dry ash      | 646      | 1020.6000 | 60.4000  | 1010.6833     | 62.4452  | 23.3712 | 17     | 0.16             | 0%             | 0    |
| 025.31      | Iron, AAS, Dry ash      | 868      | 1028.5000 | 17.0000  | 1010.6833     | 62.4452  | 23.3712 | 17     | 0.29             | 1%             | 0    |
| 025.31      | Iron, AAS, Dry ash      | 669      | 1038.4100 | 63.4400  | 1010.6833     | 62.4452  | 23.3712 | 17     | 0.44             | 1%             | 0    |
| 025.31      | Iron, AAS, Dry ash      | 675      | 1052.5500 | 39.4400  | 1010.6833     | 62.4452  | 23.3712 | 17     | 0.67             | 2%             | 0    |
| 025.31      | Iron, AAS, Dry ash      | 175      | 1071.0000 | 22.0000  | 1010.6833     | 62.4452  | 23.3712 | 17     | 0.97             | 3%             | 0    |
| 025.31      | Iron, AAS, Dry ash      | 14       | 1075.0000 | 90.0000  | 1010.6833     | 62.4452  | 23.3712 | 17     | 1.03             | 3%             | 0    |
| 025.31      | Iron, AAS, Dry ash      | 350      | 1082.5000 | 5.0000   | 1010.6833     | 62.4452  | 23.3712 | 17     | 1.15             | 4%             | 0    |
| 025.31      | Iron, AAS, Dry ash      | 505      | 1087.0000 | 14.0000  | 1010.6833     | 62.4452  | 23.3712 | 17     | 1.22             | 4%             | 0    |
| 025.32      | Iron, AAS, Open vessel  | 656      | 1035.2250 | 56.4700  | 1107.9216     | 102.8085 | 34.0237 | 2      | -0.71            | 3%             | 0    |
| 025.32      | Iron, AAS, Open vessel  | 722      | 1180.6182 | 11.5775  | 1107.9216     | 102.8085 | 34.0237 | 2      | 0.71             | 3%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 229      | 863.0000  | 6.0000   | 972.1521      | 65.9979  | 22.3588 | 29     | -1.65            | 6%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 26       | 883.5000  | 13.0000  | 972.1521      | 65.9979  | 22.3588 | 29     | -1.34            | 5%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 598      | 890.5000  | 1.0000   | 972.1521      | 65.9979  | 22.3588 | 29     | -1.24            | 4%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 358      | 890.6800  | 35.4800  | 972.1521      | 65.9979  | 22.3588 | 29     | -1.23            | 4%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 300      | 898.5000  | 9.0000   | 972.1521      | 65.9979  | 22.3588 | 29     | -1.12            | 4%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 695      | 912.7550  | 2.2700   | 972.1521      | 65.9979  | 22.3588 | 29     | -0.90            | 3%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 407      | 918.0000  | 2.0000   | 972.1521      | 65.9979  | 22.3588 | 29     | -0.82            | 3%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 100      | 931.0000  | 8.0000   | 972.1521      | 65.9979  | 22.3588 | 29     | -0.62            | 2%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 226      | 936.5000  | 109.0000 | 972.1521      | 65.9979  | 22.3588 | 29     | -0.54            | 2%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 98       | 937.0000  | 48.0000  | 972.1521      | 65.9979  | 22.3588 | 29     | -0.53            | 2%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 511      | 939.5000  | 21.0000  | 972.1521      | 65.9979  | 22.3588 | 29     | -0.49            | 2%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 11       | 957.5975  | 53.9150  | 972.1521      | 65.9979  | 22.3588 | 29     | -0.22            | 1%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 148      | 959.1500  | 2.1000   | 972.1521      | 65.9979  | 22.3588 | 29     | -0.20            | 1%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 49       | 962.6200  | 7.0000   | 972.1521      | 65.9979  | 22.3588 | 29     | -0.14            | 0%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 682      | 969.0800  | 10.4000  | 972.1521      | 65.9979  | 22.3588 | 29     | -0.05            | 0%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 553      | 972.0000  | 76.0000  | 972.1521      | 65.9979  | 22.3588 | 29     | 0.00             | 0%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 242      | 987.5000  | 25.0000  | 972.1521      | 65.9979  | 22.3588 | 29     | 0.23             | 1%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 164      | 1005.0000 | 10.0000  | 972.1521      | 65.9979  | 22.3588 | 29     | 0.50             | 2%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 520      | 1005.0000 | 110.0000 | 972.1521      | 65.9979  | 22.3588 | 29     | 0.50             | 2%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 610      | 1007.5000 | 1.0000   | 972.1521      | 65.9979  | 22.3588 | 29     | 0.54             | 2%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 171      | 1009.0000 | 6.0000   | 972.1521      | 65.9979  | 22.3588 | 29     | 0.56             | 2%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 512      | 1009.5000 | 1.0000   | 972.1521      | 65.9979  | 22.3588 | 29     | 0.57             | 2%             | 0    |
| 025.41      | Iron, ICP, Dry ash      | 8        | 1017.1800 | 6.0400   | 972.1521      | 65.9979  | 22.3588 | 29     | 0.68             | 2%             | 0    |

| Method Code | Analyte Name and Method   | Lab Code | Lab Data  |          | Method Values |          |         |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|---------------------------|----------|-----------|----------|---------------|----------|---------|--------|------------------|----------------|------|
|             |                           |          | Value     | range    | Rob Mean      | Rob SD   | R-bar   | # Labs |                  |                |      |
| 025.41      | Iron, ICP, Dry ash        | 208      | 1038.0000 | 0.0000   | 972.1521      | 65.9979  | 22.3588 | 29     | <b>1.00</b>      | 3%             | 0    |
| 025.41      | Iron, ICP, Dry ash        | 550      | 1046.7000 | 18.2000  | 972.1521      | 65.9979  | 22.3588 | 29     | <b>1.13</b>      | 4%             | 0    |
| 025.41      | Iron, ICP, Dry ash        | 425      | 1052.5000 | 1.0000   | 972.1521      | 65.9979  | 22.3588 | 29     | <b>1.22</b>      | 4%             | 0    |
| 025.41      | Iron, ICP, Dry ash        | 4        | 1062.0000 | 24.0000  | 972.1521      | 65.9979  | 22.3588 | 29     | <b>1.36</b>      | 5%             | 0    |
| 025.41      | Iron, ICP, Dry ash        | 51       | 1064.0000 | 30.0000  | 972.1521      | 65.9979  | 22.3588 | 29     | <b>1.39</b>      | 5%             | 0    |
| 025.41      | Iron, ICP, Dry ash        | 265      | 1078.0000 | 12.0000  | 972.1521      | 65.9979  | 22.3588 | 29     | <b>1.60</b>      | 5%             | 0    |
| 025.41      | Iron, ICP, Dry ash        | 3        | 789.5000  | 139.0000 | 972.1521      | 65.9979  | 22.3588 | 29     | <b>-2.77</b>     | 9%             | 1    |
| 025.42      | Iron, ICP, Open vessel    | 278      | 338.5000  | 5.0000   | 653.1984      | 138.9995 | 17.1628 | 18     | <b>-2.26</b>     | 24%            | 0    |
| 025.42      | Iron, ICP, Open vessel    | 190      | 491.1400  | 2.2200   | 653.1984      | 138.9995 | 17.1628 | 18     | <b>-1.17</b>     | 12%            | 0    |
| 025.42      | Iron, ICP, Open vessel    | 613      | 511.0000  | 18.0000  | 653.1984      | 138.9995 | 17.1628 | 18     | <b>-1.02</b>     | 11%            | 0    |
| 025.42      | Iron, ICP, Open vessel    | 187      | 532.9850  | 5.5100   | 653.1984      | 138.9995 | 17.1628 | 18     | <b>-0.86</b>     | 9%             | 0    |
| 025.42      | Iron, ICP, Open vessel    | 726      | 564.0000  | 5.0000   | 653.1984      | 138.9995 | 17.1628 | 18     | <b>-0.64</b>     | 7%             | 0    |
| 025.42      | Iron, ICP, Open vessel    | 693      | 576.5000  | 31.0000  | 653.1984      | 138.9995 | 17.1628 | 18     | <b>-0.55</b>     | 6%             | 0    |
| 025.42      | Iron, ICP, Open vessel    | 413      | 590.5000  | 1.0000   | 653.1984      | 138.9995 | 17.1628 | 18     | <b>-0.45</b>     | 5%             | 0    |
| 025.42      | Iron, ICP, Open vessel    | 27       | 635.0000  | 18.0000  | 653.1984      | 138.9995 | 17.1628 | 18     | <b>-0.13</b>     | 1%             | 0    |
| 025.42      | Iron, ICP, Open vessel    | 160      | 644.0000  | 8.0000   | 653.1984      | 138.9995 | 17.1628 | 18     | <b>-0.07</b>     | 1%             | 0    |
| 025.42      | Iron, ICP, Open vessel    | 37       | 645.0000  | 12.0000  | 653.1984      | 138.9995 | 17.1628 | 18     | <b>-0.06</b>     | 1%             | 0    |
| 025.42      | Iron, ICP, Open vessel    | 21       | 675.5000  | 47.0000  | 653.1984      | 138.9995 | 17.1628 | 18     | <b>0.16</b>      | 2%             | 0    |
| 025.42      | Iron, ICP, Open vessel    | 98       | 693.0000  | 64.0000  | 653.1984      | 138.9995 | 17.1628 | 18     | <b>0.29</b>      | 3%             | 0    |
| 025.42      | Iron, ICP, Open vessel    | 45       | 723.5000  | 1.0000   | 653.1984      | 138.9995 | 17.1628 | 18     | <b>0.51</b>      | 5%             | 0    |
| 025.42      | Iron, ICP, Open vessel    | 366      | 745.5000  | 23.0000  | 653.1984      | 138.9995 | 17.1628 | 18     | <b>0.66</b>      | 7%             | 0    |
| 025.42      | Iron, ICP, Open vessel    | 106      | 767.5000  | 13.0000  | 653.1984      | 138.9995 | 17.1628 | 18     | <b>0.82</b>      | 9%             | 0    |
| 025.42      | Iron, ICP, Open vessel    | 560      | 825.0000  | 42.0000  | 653.1984      | 138.9995 | 17.1628 | 18     | <b>1.24</b>      | 13%            | 0    |
| 025.42      | Iron, ICP, Open vessel    | 199      | 925.0000  | 9.2000   | 653.1984      | 138.9995 | 17.1628 | 18     | <b>1.96</b>      | 21%            | 0    |
| 025.42      | Iron, ICP, Open vessel    | 616      | 940.0000  | 4.0000   | 653.1984      | 138.9995 | 17.1628 | 18     | <b>2.06</b>      | 22%            | 0    |
| 025.43      | Iron, ICP, Microwave      | 294      | 511.5900  | 0.4200   | 801.7222      | 237.3204 | 9.7219  | 8      | <b>-1.22</b>     | 18%            | 0    |
| 025.43      | Iron, ICP, Microwave      | 353      | 525.1000  | 3.0000   | 801.7222      | 237.3204 | 9.7219  | 8      | <b>-1.17</b>     | 17%            | 0    |
| 025.43      | Iron, ICP, Microwave      | 345      | 756.6500  | 13.1000  | 801.7222      | 237.3204 | 9.7219  | 8      | <b>-0.19</b>     | 3%             | 0    |
| 025.43      | Iron, ICP, Microwave      | 510      | 789.0000  | 8.0000   | 801.7222      | 237.3204 | 9.7219  | 8      | <b>-0.05</b>     | 1%             | 0    |
| 025.43      | Iron, ICP, Microwave      | 169      | 830.5000  | 1.0000   | 801.7222      | 237.3204 | 9.7219  | 8      | <b>0.12</b>      | 2%             | 0    |
| 025.43      | Iron, ICP, Microwave      | 121      | 874.9375  | 18.2550  | 801.7222      | 237.3204 | 9.7219  | 8      | <b>0.31</b>      | 5%             | 0    |
| 025.43      | Iron, ICP, Microwave      | 42       | 1041.0000 | 24.0000  | 801.7222      | 237.3204 | 9.7219  | 8      | <b>1.01</b>      | 15%            | 0    |
| 025.43      | Iron, ICP, Microwave      | 38       | 1085.0000 | 10.0000  | 801.7222      | 237.3204 | 9.7219  | 8      | <b>1.19</b>      | 18%            | 0    |
| 025.43      | Iron, ICP, Microwave      | 508      | 965.2905  | 66.6130  | 801.7222      | 237.3204 | 9.7219  | 8      | <b>0.69</b>      | 10%            | 1    |
| 025.52      | Iron, ICP-MS, Open vessel | 154      | 909.5000  | 39.0000  |               |          | 39.0000 | 1      |                  |                |      |
| 025.53      | Iron, ICP-MS, Microwave   | 39       | 966.9000  | 58.6000  |               |          | 58.6000 | 1      |                  |                |      |
| 025.99      | Iron, Miscellaneous       | 563      | 1000.7350 | 4.7700   | 801.7222      | 237.3204 | 4.7700  | 1      | <b>0.84</b>      | 12%            | 0    |
| 025.99      | Iron, Miscellaneous       | 692      | -1.0000   | 0.0000   | 801.7222      | 237.3204 | 4.7700  | 1      | <b>-3.38</b>     | 50%            | 3    |
| 026.31      | Lead, AAS, Dry ash        | 866      | 0.8900    | 0.1560   |               |          | 0.1560  | 1      |                  |                |      |
| 026.33      | Lead, AAS, Microwave      | 610      | 0.5420    | 0.0040   |               |          | 0.0040  | 1      |                  |                |      |
| 026.41      | Lead, ICP, Dry ash        | 11       | 0.3878    | 0.1015   |               |          | 0.1015  | 1      |                  |                |      |
| 026.52      | Lead, ICP-MS, Open vessel | 154      | 0.9500    | 0.0200   |               |          | 0.0200  | 1      |                  |                |      |

| Method Code | Analyte Name and Method     | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-----------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                             |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 026.99      | Lead, Miscellaneous         | 619      | 2.2550   | 0.1500 |               |        | 0.1500 | 1      |                  |                |      |
| 027.04      | Magnesium, DCP              | 83       | 0.2800   | 0.0000 |               |        | 0.0000 | 1      |                  |                |      |
| 027.31      | Magnesium, AAS, Dry ash     | 596      | 0.1950   | 0.0100 | 0.2861        | 0.0175 | 0.0072 | 20     | -5.21            | 16%            | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 305      | 0.2550   | 0.0100 | 0.2861        | 0.0175 | 0.0072 | 20     | -1.78            | 5%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 650      | 0.2612   | 0.0003 | 0.2861        | 0.0175 | 0.0072 | 20     | -1.42            | 4%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 868      | 0.2735   | 0.0070 | 0.2861        | 0.0175 | 0.0072 | 20     | -0.72            | 2%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 175      | 0.2750   | 0.0100 | 0.2861        | 0.0175 | 0.0072 | 20     | -0.63            | 2%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 354      | 0.2750   | 0.0100 | 0.2861        | 0.0175 | 0.0072 | 20     | -0.63            | 2%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 675      | 0.2800   | 0.0000 | 0.2861        | 0.0175 | 0.0072 | 20     | -0.35            | 1%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 4        | 0.2825   | 0.0090 | 0.2861        | 0.0175 | 0.0072 | 20     | -0.20            | 1%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 619      | 0.2845   | 0.0070 | 0.2861        | 0.0175 | 0.0072 | 20     | -0.09            | 0%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 505      | 0.2850   | 0.0100 | 0.2861        | 0.0175 | 0.0072 | 20     | -0.06            | 0%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 646      | 0.2850   | 0.0100 | 0.2861        | 0.0175 | 0.0072 | 20     | -0.06            | 0%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 38       | 0.2880   | 0.0040 | 0.2861        | 0.0175 | 0.0072 | 20     | 0.11             | 0%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 139      | 0.2910   | 0.0010 | 0.2861        | 0.0175 | 0.0072 | 20     | 0.28             | 1%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 731      | 0.2950   | 0.0100 | 0.2861        | 0.0175 | 0.0072 | 20     | 0.51             | 2%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 65       | 0.2967   | 0.0036 | 0.2861        | 0.0175 | 0.0072 | 20     | 0.61             | 2%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 350      | 0.2970   | 0.0020 | 0.2861        | 0.0175 | 0.0072 | 20     | 0.63             | 2%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 208      | 0.3030   | 0.0020 | 0.2861        | 0.0175 | 0.0072 | 20     | 0.97             | 3%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 669      | 0.3100   | 0.0200 | 0.2861        | 0.0175 | 0.0072 | 20     | 1.37             | 4%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 590      | 0.3300   | 0.0000 | 0.2861        | 0.0175 | 0.0072 | 20     | 2.51             | 8%             | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 874      | 0.3445   | 0.0190 | 0.2861        | 0.0175 | 0.0072 | 20     | 3.34             | 10%            | 0    |
| 027.31      | Magnesium, AAS, Dry ash     | 14       | 0.3190   | 0.0340 | 0.2861        | 0.0175 | 0.0072 | 20     | 1.88             | 6%             | 1    |
| 027.32      | Magnesium, AAS, Open vessel | 609      | 0.2550   | 0.0100 | 0.2884        | 0.0175 | 0.0067 | 8      | -1.91            | 6%             | 0    |
| 027.32      | Magnesium, AAS, Open vessel | 13       | 0.2595   | 0.0090 | 0.2884        | 0.0175 | 0.0067 | 8      | -1.65            | 5%             | 0    |
| 027.32      | Magnesium, AAS, Open vessel | 35       | 0.2800   | 0.0000 | 0.2884        | 0.0175 | 0.0067 | 8      | -0.48            | 1%             | 0    |
| 027.32      | Magnesium, AAS, Open vessel | 263      | 0.2914   | 0.0011 | 0.2884        | 0.0175 | 0.0067 | 8      | 0.17             | 1%             | 0    |
| 027.32      | Magnesium, AAS, Open vessel | 504      | 0.2932   | 0.0024 | 0.2884        | 0.0175 | 0.0067 | 8      | 0.28             | 1%             | 0    |
| 027.32      | Magnesium, AAS, Open vessel | 169      | 0.2950   | 0.0100 | 0.2884        | 0.0175 | 0.0067 | 8      | 0.38             | 1%             | 0    |
| 027.32      | Magnesium, AAS, Open vessel | 722      | 0.3021   | 0.0012 | 0.2884        | 0.0175 | 0.0067 | 8      | 0.79             | 2%             | 0    |
| 027.32      | Magnesium, AAS, Open vessel | 656      | 0.3100   | 0.0200 | 0.2884        | 0.0175 | 0.0067 | 8      | 1.24             | 4%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 242      | 0.2700   | 0.0000 | 0.2869        | 0.0136 | 0.0081 | 30     | -1.24            | 3%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 300      | 0.2700   | 0.0000 | 0.2869        | 0.0136 | 0.0081 | 30     | -1.24            | 3%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 358      | 0.2700   | 0.0000 | 0.2869        | 0.0136 | 0.0081 | 30     | -1.24            | 3%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 511      | 0.2700   | 0.0200 | 0.2869        | 0.0136 | 0.0081 | 30     | -1.24            | 3%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 229      | 0.2750   | 0.0100 | 0.2869        | 0.0136 | 0.0081 | 30     | -0.87            | 2%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 553      | 0.2755   | 0.0050 | 0.2869        | 0.0136 | 0.0081 | 30     | -0.84            | 2%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 148      | 0.2760   | 0.0020 | 0.2869        | 0.0136 | 0.0081 | 30     | -0.80            | 2%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 49       | 0.2800   | 0.0000 | 0.2869        | 0.0136 | 0.0081 | 30     | -0.51            | 1%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 98       | 0.2800   | 0.0200 | 0.2869        | 0.0136 | 0.0081 | 30     | -0.51            | 1%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 226      | 0.2800   | 0.0200 | 0.2869        | 0.0136 | 0.0081 | 30     | -0.51            | 1%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 695      | 0.2800   | 0.0000 | 0.2869        | 0.0136 | 0.0081 | 30     | -0.51            | 1%             | 0    |

| Method Code | Analyte Name and Method     | Lab Code | Lab Data  |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-----------------------------|----------|-----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                             |          | Value     | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 027.41      | Magnesium, ICP, Dry ash     | 4        | 0.2820    | 0.0000 | 0.2869        | 0.0136 | 0.0081 | 30     | -0.36            | 1%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 26       | 0.2830    | 0.0020 | 0.2869        | 0.0136 | 0.0081 | 30     | -0.28            | 1%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 51       | 0.2850    | 0.0100 | 0.2869        | 0.0136 | 0.0081 | 30     | -0.14            | 0%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 164      | 0.2850    | 0.0100 | 0.2869        | 0.0136 | 0.0081 | 30     | -0.14            | 0%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 413      | 0.2850    | 0.0100 | 0.2869        | 0.0136 | 0.0081 | 30     | -0.14            | 0%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 425      | 0.2850    | 0.0100 | 0.2869        | 0.0136 | 0.0081 | 30     | -0.14            | 0%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 520      | 0.2850    | 0.0100 | 0.2869        | 0.0136 | 0.0081 | 30     | -0.14            | 0%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 512      | 0.2875    | 0.0035 | 0.2869        | 0.0136 | 0.0081 | 30     | 0.04             | 0%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 11       | 0.2887    | 0.0053 | 0.2869        | 0.0136 | 0.0081 | 30     | 0.13             | 0%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 610      | 0.2915    | 0.0070 | 0.2869        | 0.0136 | 0.0081 | 30     | 0.34             | 1%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 598      | 0.2949    | 0.0020 | 0.2869        | 0.0136 | 0.0081 | 30     | 0.59             | 1%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 100      | 0.2950    | 0.0100 | 0.2869        | 0.0136 | 0.0081 | 30     | 0.60             | 1%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 550      | 0.2985    | 0.0210 | 0.2869        | 0.0136 | 0.0081 | 30     | 0.86             | 2%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 171      | 0.3060    | 0.0040 | 0.2869        | 0.0136 | 0.0081 | 30     | 1.41             | 3%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 407      | 0.3070    | 0.0080 | 0.2869        | 0.0136 | 0.0081 | 30     | 1.48             | 4%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 265      | 0.3150    | 0.0100 | 0.2869        | 0.0136 | 0.0081 | 30     | 2.07             | 5%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 208      | 0.3200    | 0.0020 | 0.2869        | 0.0136 | 0.0081 | 30     | 2.44             | 6%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 3        | 0.3250    | 0.0300 | 0.2869        | 0.0136 | 0.0081 | 30     | 2.81             | 7%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 682      | 0.3250    | 0.0100 | 0.2869        | 0.0136 | 0.0081 | 30     | 2.81             | 7%             | 0    |
| 027.41      | Magnesium, ICP, Dry ash     | 8        | 2975.2700 | 3.3600 | 0.2869        | 0.0136 | 0.0081 | 30     | 218985.26        | 518533%        | 2    |
| 027.42      | Magnesium, ICP, Open vessel | 693      | 0.2400    | 0.0200 | 0.2790        | 0.0236 | 0.0066 | 19     | -1.65            | 7%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 366      | 0.2500    | 0.0000 | 0.2790        | 0.0236 | 0.0066 | 19     | -1.23            | 5%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 613      | 0.2500    | 0.0200 | 0.2790        | 0.0236 | 0.0066 | 19     | -1.23            | 5%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 45       | 0.2590    | 0.0020 | 0.2790        | 0.0236 | 0.0066 | 19     | -0.85            | 4%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 106      | 0.2600    | 0.0000 | 0.2790        | 0.0236 | 0.0066 | 19     | -0.80            | 3%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 187      | 0.2611    | 0.0022 | 0.2790        | 0.0236 | 0.0066 | 19     | -0.76            | 3%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 726      | 0.2693    | 0.0003 | 0.2790        | 0.0236 | 0.0066 | 19     | -0.41            | 2%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 21       | 0.2715    | 0.0030 | 0.2790        | 0.0236 | 0.0066 | 19     | -0.32            | 1%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 190      | 0.2750    | 0.0100 | 0.2790        | 0.0236 | 0.0066 | 19     | -0.17            | 1%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 35       | 0.2800    | 0.0000 | 0.2790        | 0.0236 | 0.0066 | 19     | 0.04             | 0%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 160      | 0.2837    | 0.0045 | 0.2790        | 0.0236 | 0.0066 | 19     | 0.20             | 1%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 504      | 0.2935    | 0.0290 | 0.2790        | 0.0236 | 0.0066 | 19     | 0.62             | 3%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 37       | 0.2970    | 0.0040 | 0.2790        | 0.0236 | 0.0066 | 19     | 0.77             | 3%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 560      | 0.2970    | 0.0080 | 0.2790        | 0.0236 | 0.0066 | 19     | 0.77             | 3%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 616      | 0.2995    | 0.0030 | 0.2790        | 0.0236 | 0.0066 | 19     | 0.87             | 4%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 98       | 0.3000    | 0.0200 | 0.2790        | 0.0236 | 0.0066 | 19     | 0.89             | 4%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 199      | 0.3000    | 0.0000 | 0.2790        | 0.0236 | 0.0066 | 19     | 0.89             | 4%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 278      | 0.3000    | 0.0000 | 0.2790        | 0.0236 | 0.0066 | 19     | 0.89             | 4%             | 0    |
| 027.42      | Magnesium, ICP, Open vessel | 202      | 0.3100    | 0.0000 | 0.2790        | 0.0236 | 0.0066 | 19     | 1.32             | 6%             | 0    |
| 027.43      | Magnesium, ICP, Microwave   | 510      | 0.2400    | 0.0000 | 0.2664        | 0.0246 | 0.0070 | 8      | -1.07            | 5%             | 0    |
| 027.43      | Magnesium, ICP, Microwave   | 353      | 0.2450    | 0.0100 | 0.2664        | 0.0246 | 0.0070 | 8      | -0.87            | 4%             | 0    |
| 027.43      | Magnesium, ICP, Microwave   | 294      | 0.2500    | 0.0000 | 0.2664        | 0.0246 | 0.0070 | 8      | -0.67            | 3%             | 0    |

| Method Code | Analyte Name and Method        | Lab Code | Lab Data |         | Method Values |         |         |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|--------------------------------|----------|----------|---------|---------------|---------|---------|--------|------------------|----------------|------|
|             |                                |          | Value    | range   | Rob Mean      | Rob SD  | R-bar   | # Labs |                  |                |      |
| 027.43      | Magnesium, ICP, Microwave      | 38       | 0.2575   | 0.0090  | 0.2664        | 0.0246  | 0.0070  | 8      | -0.36            | 2%             | 0    |
| 027.43      | Magnesium, ICP, Microwave      | 345      | 0.2700   | 0.0000  | 0.2664        | 0.0246  | 0.0070  | 8      | 0.15             | 1%             | 0    |
| 027.43      | Magnesium, ICP, Microwave      | 27       | 0.2800   | 0.0100  | 0.2664        | 0.0246  | 0.0070  | 8      | 0.55             | 3%             | 0    |
| 027.43      | Magnesium, ICP, Microwave      | 508      | 0.2907   | 0.0027  | 0.2664        | 0.0246  | 0.0070  | 8      | 0.99             | 5%             | 0    |
| 027.43      | Magnesium, ICP, Microwave      | 42       | 0.2980   | 0.0240  | 0.2664        | 0.0246  | 0.0070  | 8      | 1.29             | 6%             | 0    |
| 027.52      | Magnesium, ICP-MS, Open vessel | 154      | 0.2681   | 0.0033  |               |         | 0.0033  | 1      |                  |                |      |
| 027.53      | Magnesium, ICP-MS, Microwave   | 572      | 0.2775   | 0.0270  | 0.2965        | 0.0269  | 0.0146  | 2      | -0.71            | 3%             | 0    |
| 027.53      | Magnesium, ICP-MS, Microwave   | 39       | 0.3156   | 0.0021  | 0.2965        | 0.0269  | 0.0146  | 2      | 0.71             | 3%             | 0    |
| 027.99      | Magnesium, Miscellaneous       | 563      | 0.2868   | 0.0027  | 0.2965        | 0.0269  | 0.0027  | 1      | -0.36            | 2%             | 0    |
| 027.99      | Magnesium, Miscellaneous       | 692      | -1.0000  | 0.0000  | 0.2965        | 0.0269  | 0.0027  | 1      | -48.19           | 219%           | 3    |
| 028.04      | Manganese, DCP                 | 83       | 351.5000 | 11.0000 |               |         | 11.0000 | 1      |                  |                |      |
| 028.31      | Manganese, AAS, Dry ash        | 619      | 298.0000 | 4.0000  | 357.3072      | 19.0263 | 7.1369  | 16     | -3.12            | 8%             | 0    |
| 028.31      | Manganese, AAS, Dry ash        | 596      | 331.5000 | 5.0000  | 357.3072      | 19.0263 | 7.1369  | 16     | -1.36            | 4%             | 0    |
| 028.31      | Manganese, AAS, Dry ash        | 4        | 336.0000 | 2.0000  | 357.3072      | 19.0263 | 7.1369  | 16     | -1.12            | 3%             | 0    |
| 028.31      | Manganese, AAS, Dry ash        | 669      | 344.8850 | 18.6100 | 357.3072      | 19.0263 | 7.1369  | 16     | -0.65            | 2%             | 0    |
| 028.31      | Manganese, AAS, Dry ash        | 675      | 346.5200 | 0.9600  | 357.3072      | 19.0263 | 7.1369  | 16     | -0.57            | 2%             | 0    |
| 028.31      | Manganese, AAS, Dry ash        | 354      | 349.2400 | 9.4600  | 357.3072      | 19.0263 | 7.1369  | 16     | -0.42            | 1%             | 0    |
| 028.31      | Manganese, AAS, Dry ash        | 175      | 357.0000 | 10.0000 | 357.3072      | 19.0263 | 7.1369  | 16     | -0.02            | 0%             | 0    |
| 028.31      | Manganese, AAS, Dry ash        | 305      | 357.2200 | 5.0600  | 357.3072      | 19.0263 | 7.1369  | 16     | 0.00             | 0%             | 0    |
| 028.31      | Manganese, AAS, Dry ash        | 731      | 359.5000 | 15.0000 | 357.3072      | 19.0263 | 7.1369  | 16     | 0.12             | 0%             | 0    |
| 028.31      | Manganese, AAS, Dry ash        | 505      | 361.5000 | 7.0000  | 357.3072      | 19.0263 | 7.1369  | 16     | 0.22             | 1%             | 0    |
| 028.31      | Manganese, AAS, Dry ash        | 14       | 362.5000 | 19.0000 | 357.3072      | 19.0263 | 7.1369  | 16     | 0.27             | 1%             | 0    |
| 028.31      | Manganese, AAS, Dry ash        | 350      | 366.5000 | 1.0000  | 357.3072      | 19.0263 | 7.1369  | 16     | 0.48             | 1%             | 0    |
| 028.31      | Manganese, AAS, Dry ash        | 208      | 374.5000 | 3.0000  | 357.3072      | 19.0263 | 7.1369  | 16     | 0.90             | 2%             | 0    |
| 028.31      | Manganese, AAS, Dry ash        | 868      | 374.5000 | 5.0000  | 357.3072      | 19.0263 | 7.1369  | 16     | 0.90             | 2%             | 0    |
| 028.31      | Manganese, AAS, Dry ash        | 178      | 379.5000 | 1.0000  | 357.3072      | 19.0263 | 7.1369  | 16     | 1.17             | 3%             | 0    |
| 028.31      | Manganese, AAS, Dry ash        | 590      | 419.5500 | 8.1000  | 357.3072      | 19.0263 | 7.1369  | 16     | 3.27             | 9%             | 0    |
| 028.32      | Manganese, AAS, Open vessel    | 656      | 353.7150 | 22.1500 | 375.7049      | 19.8284 | 9.5803  | 4      | -1.11            | 3%             | 0    |
| 028.32      | Manganese, AAS, Open vessel    | 35       | 366.0000 | 0.0000  | 375.7049      | 19.8284 | 9.5803  | 4      | -0.49            | 1%             | 0    |
| 028.32      | Manganese, AAS, Open vessel    | 38       | 384.5000 | 5.0000  | 375.7049      | 19.8284 | 9.5803  | 4      | 0.44             | 1%             | 0    |
| 028.32      | Manganese, AAS, Open vessel    | 722      | 398.6046 | 11.1710 | 375.7049      | 19.8284 | 9.5803  | 4      | 1.15             | 3%             | 0    |
| 028.41      | Manganese, ICP, Dry ash        | 695      | 309.4450 | 0.5500  | 345.9788      | 17.4583 | 8.5156  | 28     | -2.09            | 5%             | 0    |
| 028.41      | Manganese, ICP, Dry ash        | 26       | 316.0000 | 0.0000  | 345.9788      | 17.4583 | 8.5156  | 28     | -1.72            | 4%             | 0    |
| 028.41      | Manganese, ICP, Dry ash        | 407      | 328.0000 | 2.0000  | 345.9788      | 17.4583 | 8.5156  | 28     | -1.03            | 3%             | 0    |
| 028.41      | Manganese, ICP, Dry ash        | 511      | 328.0000 | 6.0000  | 345.9788      | 17.4583 | 8.5156  | 28     | -1.03            | 3%             | 0    |
| 028.41      | Manganese, ICP, Dry ash        | 358      | 329.6150 | 8.4100  | 345.9788      | 17.4583 | 8.5156  | 28     | -0.94            | 2%             | 0    |
| 028.41      | Manganese, ICP, Dry ash        | 11       | 331.4575 | 22.2050 | 345.9788      | 17.4583 | 8.5156  | 28     | -0.83            | 2%             | 0    |
| 028.41      | Manganese, ICP, Dry ash        | 98       | 331.5000 | 19.0000 | 345.9788      | 17.4583 | 8.5156  | 28     | -0.83            | 2%             | 0    |
| 028.41      | Manganese, ICP, Dry ash        | 100      | 331.5000 | 25.0000 | 345.9788      | 17.4583 | 8.5156  | 28     | -0.83            | 2%             | 0    |
| 028.41      | Manganese, ICP, Dry ash        | 682      | 338.5700 | 20.7800 | 345.9788      | 17.4583 | 8.5156  | 28     | -0.42            | 1%             | 0    |
| 028.41      | Manganese, ICP, Dry ash        | 148      | 338.8000 | 1.8000  | 345.9788      | 17.4583 | 8.5156  | 28     | -0.41            | 1%             | 0    |
| 028.41      | Manganese, ICP, Dry ash        | 242      | 341.0000 | 6.0000  | 345.9788      | 17.4583 | 8.5156  | 28     | -0.29            | 1%             | 0    |



| Method Code | Analyte Name and Method     | Lab Code | Lab Data |         | Method Values |         |         |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-----------------------------|----------|----------|---------|---------------|---------|---------|--------|------------------|----------------|------|
|             |                             |          | Value    | range   | Rob Mean      | Rob SD  | R-bar   | # Labs |                  |                |      |
| 028.41      | Manganese, ICP, Dry ash     | 553      | 341.0000 | 10.0000 | 345.9788      | 17.4583 | 8.5156  | 28     | -0.29            | 1%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 610      | 341.0000 | 0.0000  | 345.9788      | 17.4583 | 8.5156  | 28     | -0.29            | 1%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 49       | 341.0250 | 8.4900  | 345.9788      | 17.4583 | 8.5156  | 28     | -0.28            | 1%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 425      | 344.2000 | 0.0000  | 345.9788      | 17.4583 | 8.5156  | 28     | -0.10            | 0%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 164      | 349.5000 | 1.0000  | 345.9788      | 17.4583 | 8.5156  | 28     | 0.20             | 1%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 4        | 350.5000 | 1.0000  | 345.9788      | 17.4583 | 8.5156  | 28     | 0.26             | 1%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 598      | 353.0000 | 10.0000 | 345.9788      | 17.4583 | 8.5156  | 28     | 0.40             | 1%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 512      | 353.3500 | 0.3000  | 345.9788      | 17.4583 | 8.5156  | 28     | 0.42             | 1%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 520      | 356.5000 | 27.0000 | 345.9788      | 17.4583 | 8.5156  | 28     | 0.60             | 2%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 171      | 359.0000 | 2.0000  | 345.9788      | 17.4583 | 8.5156  | 28     | 0.75             | 2%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 3        | 359.5000 | 13.0000 | 345.9788      | 17.4583 | 8.5156  | 28     | 0.77             | 2%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 8        | 359.5922 | 2.7323  | 345.9788      | 17.4583 | 8.5156  | 28     | 0.78             | 2%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 229      | 366.0000 | 2.0000  | 345.9788      | 17.4583 | 8.5156  | 28     | 1.15             | 3%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 51       | 366.7850 | 2.6700  | 345.9788      | 17.4583 | 8.5156  | 28     | 1.19             | 3%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 550      | 395.3500 | 19.5000 | 345.9788      | 17.4583 | 8.5156  | 28     | 2.83             | 7%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 226      | 397.5000 | 5.0000  | 345.9788      | 17.4583 | 8.5156  | 28     | 2.95             | 7%             | 0    |
| 028.41      | Manganese, ICP, Dry ash     | 265      | 419.0000 | 22.0000 | 345.9788      | 17.4583 | 8.5156  | 28     | 4.18             | 11%            | 0    |
| 028.42      | Manganese, ICP, Open vessel | 616      | 186.5000 | 15.0000 | 361.9334      | 23.7419 | 10.3871 | 17     | -7.39            | 24%            | 0    |
| 028.42      | Manganese, ICP, Open vessel | 613      | 310.0000 | 16.0000 | 361.9334      | 23.7419 | 10.3871 | 17     | -2.19            | 7%             | 0    |
| 028.42      | Manganese, ICP, Open vessel | 693      | 313.5000 | 35.0000 | 361.9334      | 23.7419 | 10.3871 | 17     | -2.04            | 7%             | 0    |
| 028.42      | Manganese, ICP, Open vessel | 413      | 342.5000 | 13.0000 | 361.9334      | 23.7419 | 10.3871 | 17     | -0.82            | 3%             | 0    |
| 028.42      | Manganese, ICP, Open vessel | 726      | 346.2500 | 0.9000  | 361.9334      | 23.7419 | 10.3871 | 17     | -0.66            | 2%             | 0    |
| 028.42      | Manganese, ICP, Open vessel | 98       | 350.0000 | 16.0000 | 361.9334      | 23.7419 | 10.3871 | 17     | -0.50            | 2%             | 0    |
| 028.42      | Manganese, ICP, Open vessel | 366      | 353.0000 | 10.0000 | 361.9334      | 23.7419 | 10.3871 | 17     | -0.38            | 1%             | 0    |
| 028.42      | Manganese, ICP, Open vessel | 45       | 363.0000 | 8.0000  | 361.9334      | 23.7419 | 10.3871 | 17     | 0.04             | 0%             | 0    |
| 028.42      | Manganese, ICP, Open vessel | 190      | 364.7350 | 2.0900  | 361.9334      | 23.7419 | 10.3871 | 17     | 0.12             | 0%             | 0    |
| 028.42      | Manganese, ICP, Open vessel | 187      | 369.4850 | 2.1900  | 361.9334      | 23.7419 | 10.3871 | 17     | 0.32             | 1%             | 0    |
| 028.42      | Manganese, ICP, Open vessel | 21       | 371.5000 | 1.0000  | 361.9334      | 23.7419 | 10.3871 | 17     | 0.40             | 1%             | 0    |
| 028.42      | Manganese, ICP, Open vessel | 560      | 372.5000 | 5.0000  | 361.9334      | 23.7419 | 10.3871 | 17     | 0.45             | 1%             | 0    |
| 028.42      | Manganese, ICP, Open vessel | 278      | 373.0000 | 26.0000 | 361.9334      | 23.7419 | 10.3871 | 17     | 0.47             | 2%             | 0    |
| 028.42      | Manganese, ICP, Open vessel | 37       | 374.0000 | 4.0000  | 361.9334      | 23.7419 | 10.3871 | 17     | 0.51             | 2%             | 0    |
| 028.42      | Manganese, ICP, Open vessel | 106      | 382.0000 | 2.0000  | 361.9334      | 23.7419 | 10.3871 | 17     | 0.85             | 3%             | 0    |
| 028.42      | Manganese, ICP, Open vessel | 202      | 398.1000 | 5.4000  | 361.9334      | 23.7419 | 10.3871 | 17     | 1.52             | 5%             | 0    |
| 028.42      | Manganese, ICP, Open vessel | 160      | 400.5000 | 15.0000 | 361.9334      | 23.7419 | 10.3871 | 17     | 1.62             | 5%             | 0    |
| 028.43      | Manganese, ICP, Microwave   | 169      | 315.0000 | 4.0000  | 352.8711      | 20.8489 | 6.3304  | 9      | -1.82            | 5%             | 0    |
| 028.43      | Manganese, ICP, Microwave   | 846      | 337.8150 | 1.0100  | 352.8711      | 20.8489 | 6.3304  | 9      | -0.72            | 2%             | 0    |
| 028.43      | Manganese, ICP, Microwave   | 345      | 338.5800 | 1.9200  | 352.8711      | 20.8489 | 6.3304  | 9      | -0.69            | 2%             | 0    |
| 028.43      | Manganese, ICP, Microwave   | 353      | 347.5500 | 5.5000  | 352.8711      | 20.8489 | 6.3304  | 9      | -0.26            | 1%             | 0    |
| 028.43      | Manganese, ICP, Microwave   | 510      | 350.5000 | 1.0000  | 352.8711      | 20.8489 | 6.3304  | 9      | -0.11            | 0%             | 0    |
| 028.43      | Manganese, ICP, Microwave   | 38       | 360.0000 | 26.0000 | 352.8711      | 20.8489 | 6.3304  | 9      | 0.34             | 1%             | 0    |
| 028.43      | Manganese, ICP, Microwave   | 27       | 369.9880 | 10.0940 | 352.8711      | 20.8489 | 6.3304  | 9      | 0.82             | 2%             | 0    |
| 028.43      | Manganese, ICP, Microwave   | 42       | 371.5000 | 5.0000  | 352.8711      | 20.8489 | 6.3304  | 9      | 0.89             | 3%             | 0    |

| Method Code | Analyte Name and Method        | Lab Code | Lab Data |         | Method Values |          |         |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|--------------------------------|----------|----------|---------|---------------|----------|---------|--------|------------------|----------------|------|
|             |                                |          | Value    | range   | Rob Mean      | Rob SD   | R-bar   | # Labs |                  |                |      |
| 028.43      | Manganese, ICP, Microwave      | 294      | 377.6250 | 2.4500  | 352.8711      | 20.8489  | 6.3304  | 9      | 1.19             | 4%             | 0    |
| 028.43      | Manganese, ICP, Microwave      | 508      | 348.2335 | 40.4810 | 352.8711      | 20.8489  | 6.3304  | 9      | -0.22            | 1%             | 1    |
| 028.52      | Manganese, ICP-MS, Open vessel | 154      | 343.0000 | 0.0000  |               |          | 0.0000  | 1      |                  |                |      |
| 028.53      | Manganese, ICP-MS, Microwave   | 572      | 330.0000 | 58.0000 | 343.7000      | 19.3747  | 46.7000 | 2      | -0.71            | 2%             | 0    |
| 028.53      | Manganese, ICP-MS, Microwave   | 39       | 357.4000 | 35.4000 | 343.7000      | 19.3747  | 46.7000 | 2      | 0.71             | 2%             | 0    |
| 028.99      | Manganese, Miscellaneous       | 47       | 1.0150   | 0.0100  | 183.4075      | 257.9419 | 1.0250  | 2      | -0.71            | 50%            | 0    |
| 028.99      | Manganese, Miscellaneous       | 563      | 365.8000 | 2.0400  | 183.4075      | 257.9419 | 1.0250  | 2      | 0.71             | 50%            | 0    |
| 028.99      | Manganese, Miscellaneous       | 692      | -1.0000  | 0.0000  | 183.4075      | 257.9419 | 1.0250  | 2      | -0.71            | 50%            | 3    |
| 031.00      | Phosphorus, Vol                | 623      | 1.0297   | 0.0091  | 1.0432        | 0.0128   | 0.0097  | 3      | -1.06            | 1%             | 0    |
| 031.00      | Phosphorus, Vol                | 849      | 1.0450   | 0.0100  | 1.0432        | 0.0128   | 0.0097  | 3      | 0.14             | 0%             | 0    |
| 031.00      | Phosphorus, Vol                | 208      | 1.0550   | 0.0100  | 1.0432        | 0.0128   | 0.0097  | 3      | 0.92             | 1%             | 0    |
| 031.01      | Phosphorus, Photometric        | 609      | 0.9700   | 0.0200  | 1.0458        | 0.0311   | 0.0159  | 48     | -2.44            | 4%             | 0    |
| 031.01      | Phosphorus, Photometric        | 350      | 0.9880   | 0.0060  | 1.0458        | 0.0311   | 0.0159  | 48     | -1.86            | 3%             | 0    |
| 031.01      | Phosphorus, Photometric        | 687      | 0.9900   | 0.0200  | 1.0458        | 0.0311   | 0.0159  | 48     | -1.79            | 3%             | 0    |
| 031.01      | Phosphorus, Photometric        | 646      | 0.9950   | 0.0100  | 1.0458        | 0.0311   | 0.0159  | 48     | -1.63            | 2%             | 0    |
| 031.01      | Phosphorus, Photometric        | 511      | 1.0000   | 0.0400  | 1.0458        | 0.0311   | 0.0159  | 48     | -1.47            | 2%             | 0    |
| 031.01      | Phosphorus, Photometric        | 596      | 1.0000   | 0.0000  | 1.0458        | 0.0311   | 0.0159  | 48     | -1.47            | 2%             | 0    |
| 031.01      | Phosphorus, Photometric        | 622      | 1.0085   | 0.0138  | 1.0458        | 0.0311   | 0.0159  | 48     | -1.20            | 2%             | 0    |
| 031.01      | Phosphorus, Photometric        | 16       | 1.0150   | 0.0100  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.99            | 1%             | 0    |
| 031.01      | Phosphorus, Photometric        | 233      | 1.0150   | 0.0100  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.99            | 1%             | 0    |
| 031.01      | Phosphorus, Photometric        | 874      | 1.0150   | 0.0100  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.99            | 1%             | 0    |
| 031.01      | Phosphorus, Photometric        | 38       | 1.0300   | 0.0200  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.51            | 1%             | 0    |
| 031.01      | Phosphorus, Photometric        | 152      | 1.0300   | 0.0200  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.51            | 1%             | 0    |
| 031.01      | Phosphorus, Photometric        | 670      | 1.0300   | 0.0000  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.51            | 1%             | 0    |
| 031.01      | Phosphorus, Photometric        | 723      | 1.0300   | 0.0000  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.51            | 1%             | 0    |
| 031.01      | Phosphorus, Photometric        | 848      | 1.0300   | 0.0000  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.51            | 1%             | 0    |
| 031.01      | Phosphorus, Photometric        | 65       | 1.0328   | 0.0265  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.42            | 1%             | 0    |
| 031.01      | Phosphorus, Photometric        | 175      | 1.0350   | 0.0100  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.35            | 1%             | 0    |
| 031.01      | Phosphorus, Photometric        | 305      | 1.0350   | 0.0100  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.35            | 1%             | 0    |
| 031.01      | Phosphorus, Photometric        | 626      | 1.0350   | 0.0500  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.35            | 1%             | 0    |
| 031.01      | Phosphorus, Photometric        | 868      | 1.0350   | 0.0300  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.35            | 1%             | 0    |
| 031.01      | Phosphorus, Photometric        | 35       | 1.0400   | 0.0000  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.19            | 0%             | 0    |
| 031.01      | Phosphorus, Photometric        | 205      | 1.0400   | 0.0200  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.19            | 0%             | 0    |
| 031.01      | Phosphorus, Photometric        | 653      | 1.0425   | 0.0170  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.11            | 0%             | 0    |
| 031.01      | Phosphorus, Photometric        | 354      | 1.0450   | 0.0100  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.02            | 0%             | 0    |
| 031.01      | Phosphorus, Photometric        | 675      | 1.0450   | 0.0100  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.02            | 0%             | 0    |
| 031.01      | Phosphorus, Photometric        | 36       | 1.0452   | 0.0090  | 1.0458        | 0.0311   | 0.0159  | 48     | -0.02            | 0%             | 0    |
| 031.01      | Phosphorus, Photometric        | 722      | 1.0483   | 0.0151  | 1.0458        | 0.0311   | 0.0159  | 48     | 0.08             | 0%             | 0    |
| 031.01      | Phosphorus, Photometric        | 651      | 1.0500   | 0.0020  | 1.0458        | 0.0311   | 0.0159  | 48     | 0.14             | 0%             | 0    |
| 031.01      | Phosphorus, Photometric        | 263      | 1.0544   | 0.0042  | 1.0458        | 0.0311   | 0.0159  | 48     | 0.28             | 0%             | 0    |
| 031.01      | Phosphorus, Photometric        | 26       | 1.0550   | 0.0100  | 1.0458        | 0.0311   | 0.0159  | 48     | 0.30             | 0%             | 0    |
| 031.01      | Phosphorus, Photometric        | 656      | 1.0550   | 0.0500  | 1.0458        | 0.0311   | 0.0159  | 48     | 0.30             | 0%             | 0    |

| Method Code | Analyte Name and Method         | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|---------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                 |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 031.01      | Phosphorus, Photometric         | 679      | 1.0550   | 0.0100 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>0.30</b>      | 0%             | 0    |
| 031.01      | Phosphorus, Photometric         | 139      | 1.0580   | 0.0180 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>0.39</b>      | 1%             | 0    |
| 031.01      | Phosphorus, Photometric         | 1        | 1.0635   | 0.0070 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>0.57</b>      | 1%             | 0    |
| 031.01      | Phosphorus, Photometric         | 619      | 1.0650   | 0.0500 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>0.62</b>      | 1%             | 0    |
| 031.01      | Phosphorus, Photometric         | 647      | 1.0650   | 0.0300 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>0.62</b>      | 1%             | 0    |
| 031.01      | Phosphorus, Photometric         | 658      | 1.0675   | 0.0090 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>0.70</b>      | 1%             | 0    |
| 031.01      | Phosphorus, Photometric         | 178      | 1.0700   | 0.0200 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>0.78</b>      | 1%             | 0    |
| 031.01      | Phosphorus, Photometric         | 18       | 1.0750   | 0.0300 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>0.94</b>      | 1%             | 0    |
| 031.01      | Phosphorus, Photometric         | 650      | 1.0750   | 0.0100 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>0.94</b>      | 1%             | 0    |
| 031.01      | Phosphorus, Photometric         | 620      | 1.0847   | 0.0164 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>1.25</b>      | 2%             | 0    |
| 031.01      | Phosphorus, Photometric         | 563      | 1.0848   | 0.0005 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>1.25</b>      | 2%             | 0    |
| 031.01      | Phosphorus, Photometric         | 669      | 1.0850   | 0.0300 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>1.26</b>      | 2%             | 0    |
| 031.01      | Phosphorus, Photometric         | 108      | 1.0900   | 0.0000 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>1.42</b>      | 2%             | 0    |
| 031.01      | Phosphorus, Photometric         | 629      | 1.1200   | 0.0400 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>2.39</b>      | 4%             | 0    |
| 031.01      | Phosphorus, Photometric         | 689      | 1.1200   | 0.0000 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>2.39</b>      | 4%             | 0    |
| 031.01      | Phosphorus, Photometric         | 871      | 1.1250   | 0.0300 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>2.55</b>      | 4%             | 0    |
| 031.01      | Phosphorus, Photometric         | 194      | 1.1450   | 0.0100 | 1.0458        | 0.0311 | 0.0159 | 48     | <b>3.19</b>      | 5%             | 0    |
| 031.02      | Phosphorus, GQMP (AOAC 935.13-E | 11       | 1.0495   | 0.0018 | 1.0548        | 0.0053 | 0.0039 | 3      | <b>-1.02</b>     | 0%             | 0    |
| 031.02      | Phosphorus, GQMP (AOAC 935.13-E | 505      | 1.0550   | 0.0100 | 1.0548        | 0.0053 | 0.0039 | 3      | <b>0.03</b>      | 0%             | 0    |
| 031.02      | Phosphorus, GQMP (AOAC 935.13-E | 43       | 1.0600   | 0.0000 | 1.0548        | 0.0053 | 0.0039 | 3      | <b>0.98</b>      | 0%             | 0    |
| 031.03      | Phosphorus, Autoanalyzer        | 43       | 1.0250   | 0.0100 | 1.0522        | 0.0103 | 0.0093 | 6      | <b>-2.64</b>     | 1%             | 0    |
| 031.03      | Phosphorus, Autoanalyzer        | 36       | 1.0459   | 0.0058 | 1.0522        | 0.0103 | 0.0093 | 6      | <b>-0.61</b>     | 0%             | 0    |
| 031.03      | Phosphorus, Autoanalyzer        | 169      | 1.0500   | 0.0200 | 1.0522        | 0.0103 | 0.0093 | 6      | <b>-0.22</b>     | 0%             | 0    |
| 031.03      | Phosphorus, Autoanalyzer        | 26       | 1.0550   | 0.0100 | 1.0522        | 0.0103 | 0.0093 | 6      | <b>0.27</b>      | 0%             | 0    |
| 031.03      | Phosphorus, Autoanalyzer        | 33       | 1.0575   | 0.0090 | 1.0522        | 0.0103 | 0.0093 | 6      | <b>0.51</b>      | 0%             | 0    |
| 031.03      | Phosphorus, Autoanalyzer        | 504      | 1.0765   | 0.0010 | 1.0522        | 0.0103 | 0.0093 | 6      | <b>2.35</b>      | 1%             | 0    |
| 031.04      | Phosphorus, Em Spect            | 631      | 1.0300   | 0.0200 |               |        | 0.0200 | 1      |                  |                |      |
| 031.06      | Phosphorus, Hach Method         | 536      | 1.0000   | 0.0400 | 1.0450        | 0.0636 | 0.0300 | 2      | <b>-0.71</b>     | 2%             | 0    |
| 031.06      | Phosphorus, Hach Method         | 686      | 1.0900   | 0.0200 | 1.0450        | 0.0636 | 0.0300 | 2      | <b>0.71</b>      | 2%             | 0    |
| 031.07      | Phosphorus, DCP                 | 83       | 1.0250   | 0.0100 |               |        | 0.0100 | 1      |                  |                |      |
| 031.41      | Phosphorus, ICP, Dry ash        | 89       | 0.8800   | 0.0000 | 1.0318        | 0.0398 | 0.0204 | 30     | <b>-3.81</b>     | 7%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash        | 100      | 0.9800   | 0.0200 | 1.0318        | 0.0398 | 0.0204 | 30     | <b>-1.30</b>     | 3%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash        | 695      | 0.9850   | 0.0100 | 1.0318        | 0.0398 | 0.0204 | 30     | <b>-1.18</b>     | 2%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash        | 553      | 0.9920   | 0.0360 | 1.0318        | 0.0398 | 0.0204 | 30     | <b>-1.00</b>     | 2%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash        | 144      | 0.9950   | 0.0300 | 1.0318        | 0.0398 | 0.0204 | 30     | <b>-0.92</b>     | 2%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash        | 550      | 0.9955   | 0.0050 | 1.0318        | 0.0398 | 0.0204 | 30     | <b>-0.91</b>     | 2%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash        | 19       | 1.0000   | 0.0200 | 1.0318        | 0.0398 | 0.0204 | 30     | <b>-0.80</b>     | 2%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash        | 358      | 1.0000   | 0.0400 | 1.0318        | 0.0398 | 0.0204 | 30     | <b>-0.80</b>     | 2%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash        | 242      | 1.0050   | 0.0300 | 1.0318        | 0.0398 | 0.0204 | 30     | <b>-0.67</b>     | 1%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash        | 848      | 1.0050   | 0.0300 | 1.0318        | 0.0398 | 0.0204 | 30     | <b>-0.67</b>     | 1%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash        | 229      | 1.0150   | 0.0100 | 1.0318        | 0.0398 | 0.0204 | 30     | <b>-0.42</b>     | 1%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash        | 298      | 1.0200   | 0.0200 | 1.0318        | 0.0398 | 0.0204 | 30     | <b>-0.30</b>     | 1%             | 0    |

| Method Code | Analyte Name and Method      | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                              |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 031.41      | Phosphorus, ICP, Dry ash     | 8        | 1.0219   | 0.0055 | 1.0318        | 0.0398 | 0.0204 | 30     | -0.25            | 0%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 51       | 1.0250   | 0.0300 | 1.0318        | 0.0398 | 0.0204 | 30     | -0.17            | 0%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 425      | 1.0300   | 0.0000 | 1.0318        | 0.0398 | 0.0204 | 30     | -0.05            | 0%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 148      | 1.0315   | 0.0130 | 1.0318        | 0.0398 | 0.0204 | 30     | -0.01            | 0%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 49       | 1.0350   | 0.0100 | 1.0318        | 0.0398 | 0.0204 | 30     | 0.08             | 0%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 164      | 1.0350   | 0.0500 | 1.0318        | 0.0398 | 0.0204 | 30     | 0.08             | 0%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 682      | 1.0400   | 0.0000 | 1.0318        | 0.0398 | 0.0204 | 30     | 0.21             | 0%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 413      | 1.0450   | 0.0100 | 1.0318        | 0.0398 | 0.0204 | 30     | 0.33             | 1%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 4        | 1.0455   | 0.0070 | 1.0318        | 0.0398 | 0.0204 | 30     | 0.34             | 1%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 171      | 1.0600   | 0.0200 | 1.0318        | 0.0398 | 0.0204 | 30     | 0.71             | 1%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 3        | 1.0650   | 0.0700 | 1.0318        | 0.0398 | 0.0204 | 30     | 0.83             | 2%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 226      | 1.0650   | 0.0500 | 1.0318        | 0.0398 | 0.0204 | 30     | 0.83             | 2%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 98       | 1.0700   | 0.0000 | 1.0318        | 0.0398 | 0.0204 | 30     | 0.96             | 2%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 407      | 1.0700   | 0.0200 | 1.0318        | 0.0398 | 0.0204 | 30     | 0.96             | 2%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 512      | 1.0760   | 0.0320 | 1.0318        | 0.0398 | 0.0204 | 30     | 1.11             | 2%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 598      | 1.0965   | 0.0130 | 1.0318        | 0.0398 | 0.0204 | 30     | 1.63             | 3%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 610      | 1.1000   | 0.0200 | 1.0318        | 0.0398 | 0.0204 | 30     | 1.71             | 3%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 265      | 1.1450   | 0.0100 | 1.0318        | 0.0398 | 0.0204 | 30     | 2.84             | 5%             | 0    |
| 031.41      | Phosphorus, ICP, Dry ash     | 300      | 0.9650   | 0.1300 | 1.0318        | 0.0398 | 0.0204 | 30     | -1.68            | 3%             | 1    |
| 031.41      | Phosphorus, ICP, Dry ash     | 520      | 1.0350   | 0.1300 | 1.0318        | 0.0398 | 0.0204 | 30     | 0.08             | 0%             | 1    |
| 031.42      | Phosphorus, ICP, Open vessel | 278      | 0.9550   | 0.0300 | 1.0424        | 0.0472 | 0.0225 | 19     | -1.85            | 4%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 693      | 0.9750   | 0.0500 | 1.0424        | 0.0472 | 0.0225 | 19     | -1.43            | 3%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 35       | 1.0000   | 0.0000 | 1.0424        | 0.0472 | 0.0225 | 19     | -0.90            | 2%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 190      | 1.0050   | 0.0300 | 1.0424        | 0.0472 | 0.0225 | 19     | -0.79            | 2%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 106      | 1.0150   | 0.0100 | 1.0424        | 0.0472 | 0.0225 | 19     | -0.58            | 1%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 366      | 1.0150   | 0.0300 | 1.0424        | 0.0472 | 0.0225 | 19     | -0.58            | 1%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 726      | 1.0220   | 0.0040 | 1.0424        | 0.0472 | 0.0225 | 19     | -0.43            | 1%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 199      | 1.0300   | 0.0000 | 1.0424        | 0.0472 | 0.0225 | 19     | -0.26            | 1%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 45       | 1.0350   | 0.0300 | 1.0424        | 0.0472 | 0.0225 | 19     | -0.16            | 0%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 98       | 1.0350   | 0.0100 | 1.0424        | 0.0472 | 0.0225 | 19     | -0.16            | 0%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 21       | 1.0400   | 0.0200 | 1.0424        | 0.0472 | 0.0225 | 19     | -0.05            | 0%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 187      | 1.0500   | 0.0000 | 1.0424        | 0.0472 | 0.0225 | 19     | 0.16             | 0%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 613      | 1.0600   | 0.0000 | 1.0424        | 0.0472 | 0.0225 | 19     | 0.37             | 1%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 504      | 1.0705   | 0.0410 | 1.0424        | 0.0472 | 0.0225 | 19     | 0.59             | 1%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 616      | 1.0750   | 0.0700 | 1.0424        | 0.0472 | 0.0225 | 19     | 0.69             | 2%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 160      | 1.1180   | 0.0133 | 1.0424        | 0.0472 | 0.0225 | 19     | 1.60             | 4%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 560      | 1.1400   | 0.0000 | 1.0424        | 0.0472 | 0.0225 | 19     | 2.07             | 5%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 202      | 1.1600   | 0.0600 | 1.0424        | 0.0472 | 0.0225 | 19     | 2.49             | 6%             | 0    |
| 031.42      | Phosphorus, ICP, Open vessel | 37       | 1.2450   | 0.0300 | 1.0424        | 0.0472 | 0.0225 | 19     | 4.29             | 10%            | 0    |
| 031.43      | Phosphorus, ICP, Microwave   | 508      | 0.1048   | 0.0045 | 1.0203        | 0.0368 | 0.0134 | 10     | -24.91           | 45%            | 0    |
| 031.43      | Phosphorus, ICP, Microwave   | 294      | 0.9950   | 0.0100 | 1.0203        | 0.0368 | 0.0134 | 10     | -0.69            | 1%             | 0    |
| 031.43      | Phosphorus, ICP, Microwave   | 510      | 0.9950   | 0.0100 | 1.0203        | 0.0368 | 0.0134 | 10     | -0.69            | 1%             | 0    |

| Method Code | Analyte Name and Method         | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|---------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                 |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 031.43      | Phosphorus, ICP, Microwave      | 28       | 1.0000   | 0.0000 | 1.0203        | 0.0368 | 0.0134 | 10     | -0.55            | 1%             | 0    |
| 031.43      | Phosphorus, ICP, Microwave      | 353      | 1.0100   | 0.0400 | 1.0203        | 0.0368 | 0.0134 | 10     | -0.28            | 1%             | 0    |
| 031.43      | Phosphorus, ICP, Microwave      | 42       | 1.0250   | 0.0100 | 1.0203        | 0.0368 | 0.0134 | 10     | 0.13             | 0%             | 0    |
| 031.43      | Phosphorus, ICP, Microwave      | 345      | 1.0350   | 0.0100 | 1.0203        | 0.0368 | 0.0134 | 10     | 0.40             | 1%             | 0    |
| 031.43      | Phosphorus, ICP, Microwave      | 38       | 1.0450   | 0.0100 | 1.0203        | 0.0368 | 0.0134 | 10     | 0.67             | 1%             | 0    |
| 031.43      | Phosphorus, ICP, Microwave      | 121      | 1.0625   | 0.0390 | 1.0203        | 0.0368 | 0.0134 | 10     | 1.15             | 2%             | 0    |
| 031.43      | Phosphorus, ICP, Microwave      | 14       | 1.1300   | 0.0000 | 1.0203        | 0.0368 | 0.0134 | 10     | 2.99             | 5%             | 0    |
| 031.52      | Phosphorus, ICP-MS, Open vessel | 154      | 0.9760   | 0.0190 |               |        | 0.0190 | 1      |                  |                |      |
| 031.53      | Phosphorus, ICP-MS, Microwave   | 572      | 0.9050   | 0.1200 | 0.9880        | 0.1174 | 0.0820 | 2      | -0.71            | 4%             | 0    |
| 031.53      | Phosphorus, ICP-MS, Microwave   | 39       | 1.0710   | 0.0440 | 0.9880        | 0.1174 | 0.0820 | 2      | 0.71             | 4%             | 0    |
| 031.99      | Phosphorus, Miscellaneous       | 552      | 0.9850   | 0.0100 | 1.0113        | 0.0225 | 0.0195 | 4      | -1.17            | 1%             | 0    |
| 031.99      | Phosphorus, Miscellaneous       | 590      | 1.0100   | 0.0400 | 1.0113        | 0.0225 | 0.0195 | 4      | -0.06            | 0%             | 0    |
| 031.99      | Phosphorus, Miscellaneous       | 676      | 1.0100   | 0.0080 | 1.0113        | 0.0225 | 0.0195 | 4      | -0.06            | 0%             | 0    |
| 031.99      | Phosphorus, Miscellaneous       | 852      | 1.0400   | 0.0200 | 1.0113        | 0.0225 | 0.0195 | 4      | 1.28             | 1%             | 0    |
| 031.99      | Phosphorus, Miscellaneous       | 692      | -1.0000  | 0.0000 | 1.0113        | 0.0225 | 0.0195 | 4      | -89.39           | 99%            | 3    |
| 032.02      | Potassium, Flame Emission       | 631      | 1.0000   | 0.0600 | 1.1112        | 0.0847 | 0.0480 | 5      | -1.31            | 5%             | 0    |
| 032.02      | Potassium, Flame Emission       | 590      | 1.0800   | 0.0000 | 1.1112        | 0.0847 | 0.0480 | 5      | -0.37            | 1%             | 0    |
| 032.02      | Potassium, Flame Emission       | 108      | 1.1000   | 0.0800 | 1.1112        | 0.0847 | 0.0480 | 5      | -0.13            | 1%             | 0    |
| 032.02      | Potassium, Flame Emission       | 139      | 1.1465   | 0.0230 | 1.1112        | 0.0847 | 0.0480 | 5      | 0.42             | 2%             | 0    |
| 032.02      | Potassium, Flame Emission       | 504      | 1.2295   | 0.0770 | 1.1112        | 0.0847 | 0.0480 | 5      | 1.40             | 5%             | 0    |
| 032.06      | Potassium, DCP                  | 83       | 1.2150   | 0.0100 |               |        | 0.0100 | 1      |                  |                |      |
| 032.31      | Potassium, AAS, Dry ash         | 650      | 0.9200   | 0.0200 | 1.1283        | 0.0623 | 0.0133 | 17     | -3.34            | 9%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 731      | 0.9650   | 0.0100 | 1.1283        | 0.0623 | 0.0133 | 17     | -2.62            | 7%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 305      | 0.9950   | 0.0100 | 1.1283        | 0.0623 | 0.0133 | 17     | -2.14            | 6%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 868      | 1.0500   | 0.0200 | 1.1283        | 0.0623 | 0.0133 | 17     | -1.26            | 3%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 670      | 1.0995   | 0.0010 | 1.1283        | 0.0623 | 0.0133 | 17     | -0.46            | 1%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 596      | 1.1000   | 0.0000 | 1.1283        | 0.0623 | 0.0133 | 17     | -0.45            | 1%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 629      | 1.1050   | 0.0100 | 1.1283        | 0.0623 | 0.0133 | 17     | -0.37            | 1%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 65       | 1.1290   | 0.0140 | 1.1283        | 0.0623 | 0.0133 | 17     | 0.01             | 0%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 675      | 1.1400   | 0.0000 | 1.1283        | 0.0623 | 0.0133 | 17     | 0.19             | 1%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 208      | 1.1500   | 0.0000 | 1.1283        | 0.0623 | 0.0133 | 17     | 0.35             | 1%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 354      | 1.1500   | 0.0200 | 1.1283        | 0.0623 | 0.0133 | 17     | 0.35             | 1%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 175      | 1.1550   | 0.0100 | 1.1283        | 0.0623 | 0.0133 | 17     | 0.43             | 1%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 350      | 1.1715   | 0.0130 | 1.1283        | 0.0623 | 0.0133 | 17     | 0.69             | 2%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 38       | 1.1750   | 0.0100 | 1.1283        | 0.0623 | 0.0133 | 17     | 0.75             | 2%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 205      | 1.1850   | 0.0300 | 1.1283        | 0.0623 | 0.0133 | 17     | 0.91             | 3%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 1        | 1.1950   | 0.0280 | 1.1283        | 0.0623 | 0.0133 | 17     | 1.07             | 3%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 14       | 1.2350   | 0.0300 | 1.1283        | 0.0623 | 0.0133 | 17     | 1.71             | 5%             | 0    |
| 032.31      | Potassium, AAS, Dry ash         | 619      | 1.2000   | 0.1000 | 1.1283        | 0.0623 | 0.0133 | 17     | 1.15             | 3%             | 1    |
| 032.32      | Potassium, AAS, Open vessel     | 13       | 1.1000   | 0.0200 | 1.1367        | 0.0266 | 0.0111 | 6      | -1.38            | 2%             | 0    |
| 032.32      | Potassium, AAS, Open vessel     | 169      | 1.1250   | 0.0100 | 1.1367        | 0.0266 | 0.0111 | 6      | -0.44            | 1%             | 0    |
| 032.32      | Potassium, AAS, Open vessel     | 609      | 1.1300   | 0.0200 | 1.1367        | 0.0266 | 0.0111 | 6      | -0.25            | 0%             | 0    |

| Method Code | Analyte Name and Method     | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-----------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                             |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 032.32      | Potassium, AAS, Open vessel | 612      | 1.1400   | 0.0000 | 1.1367        | 0.0266 | 0.0111 | 6      | <b>0.13</b>      | 0%             | 0    |
| 032.32      | Potassium, AAS, Open vessel | 35       | 1.1550   | 0.0100 | 1.1367        | 0.0266 | 0.0111 | 6      | <b>0.69</b>      | 1%             | 0    |
| 032.32      | Potassium, AAS, Open vessel | 36       | 1.1757   | 0.0064 | 1.1367        | 0.0266 | 0.0111 | 6      | <b>1.47</b>      | 2%             | 0    |
| 032.32      | Potassium, AAS, Open vessel | 656      | 1.1450   | 0.1100 | 1.1367        | 0.0266 | 0.0111 | 6      | <b>0.31</b>      | 0%             | 1    |
| 032.41      | Potassium, ICP, Dry ash     | 520      | 1.0500   | 0.1000 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-1.73</b>     | 4%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 550      | 1.0600   | 0.0420 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-1.54</b>     | 4%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 229      | 1.0700   | 0.0200 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-1.36</b>     | 3%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 511      | 1.0750   | 0.0500 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-1.26</b>     | 3%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 553      | 1.0750   | 0.0300 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-1.26</b>     | 3%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 98       | 1.0950   | 0.0300 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-0.88</b>     | 2%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 300      | 1.1000   | 0.0600 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-0.79</b>     | 2%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 11       | 1.1072   | 0.0136 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-0.65</b>     | 2%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 26       | 1.1100   | 0.0200 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-0.60</b>     | 1%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 226      | 1.1100   | 0.0200 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-0.60</b>     | 1%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 265      | 1.1100   | 0.0200 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-0.60</b>     | 1%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 51       | 1.1250   | 0.0300 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-0.32</b>     | 1%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 144      | 1.1250   | 0.0100 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-0.32</b>     | 1%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 148      | 1.1255   | 0.0070 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-0.31</b>     | 1%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 3        | 1.1300   | 0.0800 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-0.22</b>     | 1%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 100      | 1.1400   | 0.0200 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>-0.04</b>     | 0%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 164      | 1.1450   | 0.0300 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>0.06</b>      | 0%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 358      | 1.1450   | 0.0300 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>0.06</b>      | 0%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 610      | 1.1450   | 0.0100 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>0.06</b>      | 0%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 49       | 1.1500   | 0.0000 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>0.15</b>      | 0%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 208      | 1.1610   | 0.0100 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>0.36</b>      | 1%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 8        | 1.1651   | 0.0212 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>0.44</b>      | 1%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 19       | 1.1700   | 0.0000 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>0.53</b>      | 1%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 512      | 1.1705   | 0.0830 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>0.54</b>      | 1%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 598      | 1.1755   | 0.0710 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>0.63</b>      | 1%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 413      | 1.1800   | 0.0000 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>0.72</b>      | 2%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 171      | 1.1850   | 0.0100 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>0.81</b>      | 2%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 4        | 1.1940   | 0.0160 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>0.98</b>      | 2%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 425      | 1.2000   | 0.0000 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>1.10</b>      | 3%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 695      | 1.2000   | 0.0200 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>1.10</b>      | 3%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 242      | 1.2300   | 0.0200 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>1.66</b>      | 4%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 682      | 1.2300   | 0.0600 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>1.66</b>      | 4%             | 0    |
| 032.41      | Potassium, ICP, Dry ash     | 407      | 1.3550   | 0.0300 | 1.1419        | 0.0530 | 0.0292 | 33     | <b>4.02</b>      | 9%             | 0    |
| 032.42      | Potassium, ICP, Open vessel | 35       | 1.0600   | 0.0000 | 1.1677        | 0.0771 | 0.0244 | 19     | <b>-1.40</b>     | 5%             | 0    |
| 032.42      | Potassium, ICP, Open vessel | 613      | 1.0650   | 0.0700 | 1.1677        | 0.0771 | 0.0244 | 19     | <b>-1.33</b>     | 4%             | 0    |
| 032.42      | Potassium, ICP, Open vessel | 616      | 1.0650   | 0.0700 | 1.1677        | 0.0771 | 0.0244 | 19     | <b>-1.33</b>     | 4%             | 0    |
| 032.42      | Potassium, ICP, Open vessel | 693      | 1.0900   | 0.0000 | 1.1677        | 0.0771 | 0.0244 | 19     | <b>-1.01</b>     | 3%             | 0    |
| 032.42      | Potassium, ICP, Open vessel | 98       | 1.1250   | 0.0100 | 1.1677        | 0.0771 | 0.0244 | 19     | <b>-0.55</b>     | 2%             | 0    |

| Method Code | Analyte Name and Method        | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|--------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 032.42      | Potassium, ICP, Open vessel    | 106      | 1.1400   | 0.0200 | 1.1677        | 0.0771 | 0.0244 | 19     | -0.36            | 1%             | 0    |
| 032.42      | Potassium, ICP, Open vessel    | 21       | 1.1450   | 0.0500 | 1.1677        | 0.0771 | 0.0244 | 19     | -0.29            | 1%             | 0    |
| 032.42      | Potassium, ICP, Open vessel    | 45       | 1.1450   | 0.0100 | 1.1677        | 0.0771 | 0.0244 | 19     | -0.29            | 1%             | 0    |
| 032.42      | Potassium, ICP, Open vessel    | 726      | 1.1465   | 0.0050 | 1.1677        | 0.0771 | 0.0244 | 19     | -0.28            | 1%             | 0    |
| 032.42      | Potassium, ICP, Open vessel    | 187      | 1.1600   | 0.0000 | 1.1677        | 0.0771 | 0.0244 | 19     | -0.10            | 0%             | 0    |
| 032.42      | Potassium, ICP, Open vessel    | 560      | 1.1800   | 0.0400 | 1.1677        | 0.0771 | 0.0244 | 19     | 0.16             | 1%             | 0    |
| 032.42      | Potassium, ICP, Open vessel    | 199      | 1.2050   | 0.0100 | 1.1677        | 0.0771 | 0.0244 | 19     | 0.48             | 2%             | 0    |
| 032.42      | Potassium, ICP, Open vessel    | 278      | 1.2050   | 0.0300 | 1.1677        | 0.0771 | 0.0244 | 19     | 0.48             | 2%             | 0    |
| 032.42      | Potassium, ICP, Open vessel    | 504      | 1.2105   | 0.0110 | 1.1677        | 0.0771 | 0.0244 | 19     | 0.55             | 2%             | 0    |
| 032.42      | Potassium, ICP, Open vessel    | 190      | 1.2150   | 0.0100 | 1.1677        | 0.0771 | 0.0244 | 19     | 0.61             | 2%             | 0    |
| 032.42      | Potassium, ICP, Open vessel    | 37       | 1.2300   | 0.0200 | 1.1677        | 0.0771 | 0.0244 | 19     | 0.81             | 3%             | 0    |
| 032.42      | Potassium, ICP, Open vessel    | 202      | 1.2550   | 0.0100 | 1.1677        | 0.0771 | 0.0244 | 19     | 1.13             | 4%             | 0    |
| 032.42      | Potassium, ICP, Open vessel    | 366      | 1.3350   | 0.0900 | 1.1677        | 0.0771 | 0.0244 | 19     | 2.17             | 7%             | 0    |
| 032.42      | Potassium, ICP, Open vessel    | 160      | 1.3682   | 0.0080 | 1.1677        | 0.0771 | 0.0244 | 19     | 2.60             | 9%             | 0    |
| 032.43      | Potassium, ICP, Microwave      | 42       | 1.0550   | 0.0700 | 1.1160        | 0.0429 | 0.0250 | 9      | -1.42            | 3%             | 0    |
| 032.43      | Potassium, ICP, Microwave      | 345      | 1.0850   | 0.0100 | 1.1160        | 0.0429 | 0.0250 | 9      | -0.72            | 1%             | 0    |
| 032.43      | Potassium, ICP, Microwave      | 353      | 1.0850   | 0.0100 | 1.1160        | 0.0429 | 0.0250 | 9      | -0.72            | 1%             | 0    |
| 032.43      | Potassium, ICP, Microwave      | 510      | 1.1050   | 0.0300 | 1.1160        | 0.0429 | 0.0250 | 9      | -0.26            | 0%             | 0    |
| 032.43      | Potassium, ICP, Microwave      | 508      | 1.1082   | 0.0271 | 1.1160        | 0.0429 | 0.0250 | 9      | -0.18            | 0%             | 0    |
| 032.43      | Potassium, ICP, Microwave      | 38       | 1.1250   | 0.0100 | 1.1160        | 0.0429 | 0.0250 | 9      | 0.21             | 0%             | 0    |
| 032.43      | Potassium, ICP, Microwave      | 294      | 1.1750   | 0.0100 | 1.1160        | 0.0429 | 0.0250 | 9      | 1.38             | 3%             | 0    |
| 032.43      | Potassium, ICP, Microwave      | 27       | 1.1820   | 0.0280 | 1.1160        | 0.0429 | 0.0250 | 9      | 1.54             | 3%             | 0    |
| 032.43      | Potassium, ICP, Microwave      | 28       | 1.2850   | 0.0300 | 1.1160        | 0.0429 | 0.0250 | 9      | 3.94             | 8%             | 0    |
| 032.52      | Potassium, ICP-MS, Open vessel | 16       | 1.1050   | 0.0900 | 1.1084        | 0.0048 | 0.0460 | 2      | -0.71            | 0%             | 0    |
| 032.52      | Potassium, ICP-MS, Open vessel | 154      | 1.1118   | 0.0020 | 1.1084        | 0.0048 | 0.0460 | 2      | 0.71             | 0%             | 0    |
| 032.53      | Potassium, ICP-MS, Microwave   | 572      | 1.0360   | 0.1080 | 1.0978        | 0.0873 | 0.0705 | 2      | -0.71            | 3%             | 0    |
| 032.53      | Potassium, ICP-MS, Microwave   | 39       | 1.1595   | 0.0330 | 1.0978        | 0.0873 | 0.0705 | 2      | 0.71             | 3%             | 0    |
| 032.99      | Potassium, Miscellaneous       | 505      | 1.0700   | 0.0200 | 1.1260        | 0.0792 | 0.0106 | 2      | -0.71            | 2%             | 0    |
| 032.99      | Potassium, Miscellaneous       | 563      | 1.1821   | 0.0011 | 1.1260        | 0.0792 | 0.0106 | 2      | 0.71             | 2%             | 0    |
| 032.99      | Potassium, Miscellaneous       | 692      | -1.0000  | 0.0000 | 1.1260        | 0.0792 | 0.0106 | 2      | -26.83           | 94%            | 3    |
| 033.00      | Salt, Sol Cl                   | 679      | 3.0300   | 0.1200 | 3.5078        | 0.1302 | 0.0565 | 22     | -3.67            | 7%             | 0    |
| 033.00      | Salt, Sol Cl                   | 407      | 3.1300   | 0.0000 | 3.5078        | 0.1302 | 0.0565 | 22     | -2.90            | 5%             | 0    |
| 033.00      | Salt, Sol Cl                   | 731      | 3.1350   | 0.0100 | 3.5078        | 0.1302 | 0.0565 | 22     | -2.86            | 5%             | 0    |
| 033.00      | Salt, Sol Cl                   | 695      | 3.3450   | 0.0300 | 3.5078        | 0.1302 | 0.0565 | 22     | -1.25            | 2%             | 0    |
| 033.00      | Salt, Sol Cl                   | 16       | 3.3700   | 0.1200 | 3.5078        | 0.1302 | 0.0565 | 22     | -1.06            | 2%             | 0    |
| 033.00      | Salt, Sol Cl                   | 871      | 3.3850   | 0.0100 | 3.5078        | 0.1302 | 0.0565 | 22     | -0.94            | 2%             | 0    |
| 033.00      | Salt, Sol Cl                   | 689      | 3.4250   | 0.0700 | 3.5078        | 0.1302 | 0.0565 | 22     | -0.64            | 1%             | 0    |
| 033.00      | Salt, Sol Cl                   | 353      | 3.4550   | 0.0100 | 3.5078        | 0.1302 | 0.0565 | 22     | -0.41            | 1%             | 0    |
| 033.00      | Salt, Sol Cl                   | 693      | 3.4800   | 0.1400 | 3.5078        | 0.1302 | 0.0565 | 22     | -0.21            | 0%             | 0    |
| 033.00      | Salt, Sol Cl                   | 868      | 3.4850   | 0.0100 | 3.5078        | 0.1302 | 0.0565 | 22     | -0.18            | 0%             | 0    |
| 033.00      | Salt, Sol Cl                   | 160      | 3.5050   | 0.0100 | 3.5078        | 0.1302 | 0.0565 | 22     | -0.02            | 0%             | 0    |
| 033.00      | Salt, Sol Cl                   | 675      | 3.5450   | 0.0300 | 3.5078        | 0.1302 | 0.0565 | 22     | 0.29             | 1%             | 0    |

| Method Code | Analyte Name and Method | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                         |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 033.00      | Salt, Sol Cl            | 45       | 3.5750   | 0.0500 | 3.5078        | 0.1302 | 0.0565 | 22     | 0.52             | 1%             | 0    |
| 033.00      | Salt, Sol Cl            | 366      | 3.5850   | 0.0900 | 3.5078        | 0.1302 | 0.0565 | 22     | 0.59             | 1%             | 0    |
| 033.00      | Salt, Sol Cl            | 723      | 3.5850   | 0.0100 | 3.5078        | 0.1302 | 0.0565 | 22     | 0.59             | 1%             | 0    |
| 033.00      | Salt, Sol Cl            | 512      | 3.5910   | 0.0740 | 3.5078        | 0.1302 | 0.0565 | 22     | 0.64             | 1%             | 0    |
| 033.00      | Salt, Sol Cl            | 511      | 3.6000   | 0.0800 | 3.5078        | 0.1302 | 0.0565 | 22     | 0.71             | 1%             | 0    |
| 033.00      | Salt, Sol Cl            | 169      | 3.6050   | 0.1500 | 3.5078        | 0.1302 | 0.0565 | 22     | 0.75             | 1%             | 0    |
| 033.00      | Salt, Sol Cl            | 849      | 3.6050   | 0.0500 | 3.5078        | 0.1302 | 0.0565 | 22     | 0.75             | 1%             | 0    |
| 033.00      | Salt, Sol Cl            | 298      | 3.6100   | 0.0200 | 3.5078        | 0.1302 | 0.0565 | 22     | 0.78             | 1%             | 0    |
| 033.00      | Salt, Sol Cl            | 539      | 3.6750   | 0.1300 | 3.5078        | 0.1302 | 0.0565 | 22     | 1.28             | 2%             | 0    |
| 033.00      | Salt, Sol Cl            | 34       | 3.7250   | 0.0300 | 3.5078        | 0.1302 | 0.0565 | 22     | 1.67             | 3%             | 0    |
| 033.01      | Salt, Poten Cl          | 4        | 3.3150   | 0.0100 | 3.5632        | 0.0548 | 0.0271 | 28     | -4.53            | 3%             | 0    |
| 033.01      | Salt, Poten Cl          | 425      | 3.3800   | 0.0000 | 3.5632        | 0.0548 | 0.0271 | 28     | -3.34            | 3%             | 0    |
| 033.01      | Salt, Poten Cl          | 650      | 3.4100   | 0.0200 | 3.5632        | 0.0548 | 0.0271 | 28     | -2.79            | 2%             | 0    |
| 033.01      | Salt, Poten Cl          | 106      | 3.4700   | 0.0200 | 3.5632        | 0.0548 | 0.0271 | 28     | -1.70            | 1%             | 0    |
| 033.01      | Salt, Poten Cl          | 510      | 3.4800   | 0.0000 | 3.5632        | 0.0548 | 0.0271 | 28     | -1.52            | 1%             | 0    |
| 033.01      | Salt, Poten Cl          | 610      | 3.4800   | 0.0800 | 3.5632        | 0.0548 | 0.0271 | 28     | -1.52            | 1%             | 0    |
| 033.01      | Salt, Poten Cl          | 590      | 3.5100   | 0.0200 | 3.5632        | 0.0548 | 0.0271 | 28     | -0.97            | 1%             | 0    |
| 033.01      | Salt, Poten Cl          | 26       | 3.5350   | 0.0100 | 3.5632        | 0.0548 | 0.0271 | 28     | -0.51            | 0%             | 0    |
| 033.01      | Salt, Poten Cl          | 199      | 3.5450   | 0.0100 | 3.5632        | 0.0548 | 0.0271 | 28     | -0.33            | 0%             | 0    |
| 033.01      | Salt, Poten Cl          | 42       | 3.5550   | 0.0300 | 3.5632        | 0.0548 | 0.0271 | 28     | -0.15            | 0%             | 0    |
| 033.01      | Salt, Poten Cl          | 100      | 3.5600   | 0.0200 | 3.5632        | 0.0548 | 0.0271 | 28     | -0.06            | 0%             | 0    |
| 033.01      | Salt, Poten Cl          | 98       | 3.5600   | 0.0800 | 3.5632        | 0.0548 | 0.0271 | 28     | -0.06            | 0%             | 0    |
| 033.01      | Salt, Poten Cl          | 278      | 3.5600   | 0.0000 | 3.5632        | 0.0548 | 0.0271 | 28     | -0.06            | 0%             | 0    |
| 033.01      | Salt, Poten Cl          | 226      | 3.5650   | 0.0100 | 3.5632        | 0.0548 | 0.0271 | 28     | 0.03             | 0%             | 0    |
| 033.01      | Salt, Poten Cl          | 629      | 3.5650   | 0.0900 | 3.5632        | 0.0548 | 0.0271 | 28     | 0.03             | 0%             | 0    |
| 033.01      | Salt, Poten Cl          | 164      | 3.5700   | 0.0800 | 3.5632        | 0.0548 | 0.0271 | 28     | 0.12             | 0%             | 0    |
| 033.01      | Salt, Poten Cl          | 178      | 3.5750   | 0.0300 | 3.5632        | 0.0548 | 0.0271 | 28     | 0.22             | 0%             | 0    |
| 033.01      | Salt, Poten Cl          | 39       | 3.5805   | 0.0030 | 3.5632        | 0.0548 | 0.0271 | 28     | 0.32             | 0%             | 0    |
| 033.01      | Salt, Poten Cl          | 354      | 3.5850   | 0.0100 | 3.5632        | 0.0548 | 0.0271 | 28     | 0.40             | 0%             | 0    |
| 033.01      | Salt, Poten Cl          | 1        | 3.5950   | 0.0100 | 3.5632        | 0.0548 | 0.0271 | 28     | 0.58             | 0%             | 0    |
| 033.01      | Salt, Poten Cl          | 229      | 3.5950   | 0.0100 | 3.5632        | 0.0548 | 0.0271 | 28     | 0.58             | 0%             | 0    |
| 033.01      | Salt, Poten Cl          | 175      | 3.6000   | 0.0600 | 3.5632        | 0.0548 | 0.0271 | 28     | 0.67             | 1%             | 0    |
| 033.01      | Salt, Poten Cl          | 413      | 3.6000   | 0.0400 | 3.5632        | 0.0548 | 0.0271 | 28     | 0.67             | 1%             | 0    |
| 033.01      | Salt, Poten Cl          | 11       | 3.6227   | 0.0246 | 3.5632        | 0.0548 | 0.0271 | 28     | 1.09             | 1%             | 0    |
| 033.01      | Salt, Poten Cl          | 874      | 3.6250   | 0.0300 | 3.5632        | 0.0548 | 0.0271 | 28     | 1.13             | 1%             | 0    |
| 033.01      | Salt, Poten Cl          | 205      | 3.6350   | 0.0100 | 3.5632        | 0.0548 | 0.0271 | 28     | 1.31             | 1%             | 0    |
| 033.01      | Salt, Poten Cl          | 242      | 3.6550   | 0.0500 | 3.5632        | 0.0548 | 0.0271 | 28     | 1.68             | 1%             | 0    |
| 033.01      | Salt, Poten Cl          | 51       | 3.8600   | 0.0000 | 3.5632        | 0.0548 | 0.0271 | 28     | 5.42             | 4%             | 0    |
| 033.03      | Salt, Quantab           | 14       | 1.9850   | 0.3700 | 3.7779        | 1.2882 | 0.1500 | 7      | -1.39            | 24%            | 0    |
| 033.03      | Salt, Quantab           | 505      | 3.0600   | 0.1800 | 3.7779        | 1.2882 | 0.1500 | 7      | -0.56            | 10%            | 0    |
| 033.03      | Salt, Quantab           | 598      | 3.2650   | 0.0700 | 3.7779        | 1.2882 | 0.1500 | 7      | -0.40            | 7%             | 0    |
| 033.03      | Salt, Quantab           | 265      | 3.5800   | 0.1200 | 3.7779        | 1.2882 | 0.1500 | 7      | -0.15            | 3%             | 0    |



| Method Code | Analyte Name and Method       | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                               |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 033.03      | Salt, Quantab                 | 144      | 4.4450   | 0.1300 | 3.7779        | 1.2882 | 0.1500 | 7      | 0.52             | 9%             | 0    |
| 033.03      | Salt, Quantab                 | 190      | 5.0100   | 0.1800 | 3.7779        | 1.2882 | 0.1500 | 7      | 0.96             | 16%            | 0    |
| 033.03      | Salt, Quantab                 | 726      | 5.1000   | 0.0000 | 3.7779        | 1.2882 | 0.1500 | 7      | 1.03             | 17%            | 0    |
| 033.05      | Salt, Ion Sel Electrode       | 171      | 3.6800   | 0.0200 |               |        | 0.0200 | 1      |                  |                |      |
| 033.99      | Salt, Miscellaneous           | 647      | 0.8400   | 0.0800 | 3.3795        | 0.3450 | 0.0537 | 9      | -7.36            | 38%            | 0    |
| 033.99      | Salt, Miscellaneous           | 358      | 3.0600   | 0.1400 | 3.3795        | 0.3450 | 0.0537 | 9      | -0.93            | 5%             | 0    |
| 033.99      | Salt, Miscellaneous           | 3        | 3.2500   | 0.0400 | 3.3795        | 0.3450 | 0.0537 | 9      | -0.38            | 2%             | 0    |
| 033.99      | Salt, Miscellaneous           | 121      | 3.3085   | 0.0930 | 3.3795        | 0.3450 | 0.0537 | 9      | -0.21            | 1%             | 0    |
| 033.99      | Salt, Miscellaneous           | 619      | 3.3400   | 0.0000 | 3.3795        | 0.3450 | 0.0537 | 9      | -0.11            | 1%             | 0    |
| 033.99      | Salt, Miscellaneous           | 861      | 3.4500   | 0.0400 | 3.3795        | 0.3450 | 0.0537 | 9      | 0.20             | 1%             | 0    |
| 033.99      | Salt, Miscellaneous           | 681      | 3.6650   | 0.0300 | 3.3795        | 0.3450 | 0.0537 | 9      | 0.83             | 4%             | 0    |
| 033.99      | Salt, Miscellaneous           | 552      | 3.7200   | 0.0400 | 3.3795        | 0.3450 | 0.0537 | 9      | 0.99             | 5%             | 0    |
| 033.99      | Salt, Miscellaneous           | 208      | 3.7600   | 0.0200 | 3.3795        | 0.3450 | 0.0537 | 9      | 1.10             | 6%             | 0    |
| 034.01      | Selenium, Fluor               | 38       | 2.0000   | 0.0400 |               |        | 0.0400 | 1      |                  |                |      |
| 034.04      | Selenium, AA, Hydride         | 190      | 0.9650   | 0.0300 | 2.0759        | 0.7523 | 0.0488 | 8      | -1.48            | 27%            | 0    |
| 034.04      | Selenium, AA, Hydride         | 619      | 1.2850   | 0.0700 | 2.0759        | 0.7523 | 0.0488 | 8      | -1.05            | 19%            | 0    |
| 034.04      | Selenium, AA, Hydride         | 98       | 1.4350   | 0.0100 | 2.0759        | 0.7523 | 0.0488 | 8      | -0.85            | 15%            | 0    |
| 034.04      | Selenium, AA, Hydride         | 164      | 2.1150   | 0.0700 | 2.0759        | 0.7523 | 0.0488 | 8      | 0.05             | 1%             | 0    |
| 034.04      | Selenium, AA, Hydride         | 169      | 2.4400   | 0.0600 | 2.0759        | 0.7523 | 0.0488 | 8      | 0.48             | 9%             | 0    |
| 034.04      | Selenium, AA, Hydride         | 26       | 2.6050   | 0.0500 | 2.0759        | 0.7523 | 0.0488 | 8      | 0.70             | 13%            | 0    |
| 034.04      | Selenium, AA, Hydride         | 610      | 2.6320   | 0.0000 | 2.0759        | 0.7523 | 0.0488 | 8      | 0.74             | 13%            | 0    |
| 034.04      | Selenium, AA, Hydride         | 208      | 2.8600   | 0.1000 | 2.0759        | 0.7523 | 0.0488 | 8      | 1.04             | 19%            | 0    |
| 034.41      | Selenium, ICP, Dry ash        | 682      | 0.2300   | 0.0000 |               |        | 0.0000 | 1      |                  |                |      |
| 034.42      | Selenium, ICP, Open vessel    | 504      | 1.6285   | 3.2550 | 2.7993        | 1.6557 | 3.2175 | 2      | -0.71            | 21%            | 0    |
| 034.42      | Selenium, ICP, Open vessel    | 693      | 3.9700   | 3.1800 | 2.7993        | 1.6557 | 3.2175 | 2      | 0.71             | 21%            | 0    |
| 034.52      | Selenium, ICP-MS, Open vessel | 560      | 0.2540   | 0.0020 | 0.7910        | 0.9215 | 0.0280 | 3      | -0.58            | 34%            | 0    |
| 034.52      | Selenium, ICP-MS, Open vessel | 16       | 0.2640   | 0.0320 | 0.7910        | 0.9215 | 0.0280 | 3      | -0.57            | 33%            | 0    |
| 034.52      | Selenium, ICP-MS, Open vessel | 154      | 1.8550   | 0.0500 | 0.7910        | 0.9215 | 0.0280 | 3      | 1.15             | 67%            | 0    |
| 034.53      | Selenium, ICP-MS, Microwave   | 553      | 2.1900   | 0.0800 | 2.2553        | 0.0923 | 0.0855 | 2      | -0.71            | 1%             | 0    |
| 034.53      | Selenium, ICP-MS, Microwave   | 39       | 2.3205   | 0.0910 | 2.2553        | 0.0923 | 0.0855 | 2      | 0.71             | 1%             | 0    |
| 034.99      | Selenium, Miscellaneous       | 47       | 1.9000   | 0.0000 | 2.1053        | 0.2903 | 0.0305 | 2      | -0.71            | 5%             | 0    |
| 034.99      | Selenium, Miscellaneous       | 508      | 2.3105   | 0.0610 | 2.1053        | 0.2903 | 0.0305 | 2      | 0.71             | 5%             | 0    |
| 035.01      | Sodium, Ion Sel Electrode     | 686      | 1.2750   | 0.0300 |               |        | 0.0300 | 1      |                  |                |      |
| 035.04      | Sodium, DCP                   | 83       | 1.2350   | 0.0300 |               |        | 0.0300 | 1      |                  |                |      |
| 035.05      | Sodium, Flame Emission        | 152      | 1.0950   | 0.0100 | 1.2788        | 0.1400 | 0.0564 | 5      | -1.31            | 7%             | 0    |
| 035.05      | Sodium, Flame Emission        | 139      | 1.2150   | 0.1100 | 1.2788        | 0.1400 | 0.0564 | 5      | -0.46            | 2%             | 0    |
| 035.05      | Sodium, Flame Emission        | 590      | 1.2550   | 0.0100 | 1.2788        | 0.1400 | 0.0564 | 5      | -0.17            | 1%             | 0    |
| 035.05      | Sodium, Flame Emission        | 108      | 1.3750   | 0.0100 | 1.2788        | 0.1400 | 0.0564 | 5      | 0.69             | 4%             | 0    |
| 035.05      | Sodium, Flame Emission        | 504      | 1.4540   | 0.1420 | 1.2788        | 0.1400 | 0.0564 | 5      | 1.25             | 7%             | 0    |
| 035.31      | Sodium, AAS, Dry ash          | 731      | 1.0500   | 0.0200 | 1.2457        | 0.0915 | 0.0292 | 15     | -2.14            | 8%             | 0    |
| 035.31      | Sodium, AAS, Dry ash          | 175      | 1.1200   | 0.0400 | 1.2457        | 0.0915 | 0.0292 | 15     | -1.37            | 5%             | 0    |
| 035.31      | Sodium, AAS, Dry ash          | 675      | 1.1400   | 0.0000 | 1.2457        | 0.0915 | 0.0292 | 15     | -1.15            | 4%             | 0    |

| Method Code | Analyte Name and Method  | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|--------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                          |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 035.31      | Sodium, AAS, Dry ash     | 305      | 1.1850   | 0.0100 | 1.2457        | 0.0915 | 0.0292 | 15     | -0.66            | 2%             | 0    |
| 035.31      | Sodium, AAS, Dry ash     | 670      | 1.1980   | 0.0040 | 1.2457        | 0.0915 | 0.0292 | 15     | -0.52            | 2%             | 0    |
| 035.31      | Sodium, AAS, Dry ash     | 650      | 1.2100   | 0.0600 | 1.2457        | 0.0915 | 0.0292 | 15     | -0.39            | 1%             | 0    |
| 035.31      | Sodium, AAS, Dry ash     | 233      | 1.2250   | 0.0500 | 1.2457        | 0.0915 | 0.0292 | 15     | -0.23            | 1%             | 0    |
| 035.31      | Sodium, AAS, Dry ash     | 205      | 1.2550   | 0.0100 | 1.2457        | 0.0915 | 0.0292 | 15     | 0.10             | 0%             | 0    |
| 035.31      | Sodium, AAS, Dry ash     | 619      | 1.2650   | 0.1100 | 1.2457        | 0.0915 | 0.0292 | 15     | 0.21             | 1%             | 0    |
| 035.31      | Sodium, AAS, Dry ash     | 65       | 1.2677   | 0.0146 | 1.2457        | 0.0915 | 0.0292 | 15     | 0.24             | 1%             | 0    |
| 035.31      | Sodium, AAS, Dry ash     | 596      | 1.3000   | 0.0000 | 1.2457        | 0.0915 | 0.0292 | 15     | 0.59             | 2%             | 0    |
| 035.31      | Sodium, AAS, Dry ash     | 38       | 1.3100   | 0.0600 | 1.2457        | 0.0915 | 0.0292 | 15     | 0.70             | 3%             | 0    |
| 035.31      | Sodium, AAS, Dry ash     | 208      | 1.3100   | 0.0000 | 1.2457        | 0.0915 | 0.0292 | 15     | 0.70             | 3%             | 0    |
| 035.31      | Sodium, AAS, Dry ash     | 868      | 1.3800   | 0.0200 | 1.2457        | 0.0915 | 0.0292 | 15     | 1.47             | 5%             | 0    |
| 035.31      | Sodium, AAS, Dry ash     | 354      | 1.5800   | 0.0400 | 1.2457        | 0.0915 | 0.0292 | 15     | 3.65             | 13%            | 0    |
| 035.32      | Sodium, AAS, Open vessel | 656      | 1.2650   | 0.1500 | 1.3056        | 0.0345 | 0.0487 | 6      | -1.18            | 2%             | 0    |
| 035.32      | Sodium, AAS, Open vessel | 722      | 1.2805   | 0.0098 | 1.3056        | 0.0345 | 0.0487 | 6      | -0.73            | 1%             | 0    |
| 035.32      | Sodium, AAS, Open vessel | 169      | 1.3000   | 0.0000 | 1.3056        | 0.0345 | 0.0487 | 6      | -0.16            | 0%             | 0    |
| 035.32      | Sodium, AAS, Open vessel | 35       | 1.3100   | 0.0000 | 1.3056        | 0.0345 | 0.0487 | 6      | 0.13             | 0%             | 0    |
| 035.32      | Sodium, AAS, Open vessel | 263      | 1.3332   | 0.0023 | 1.3056        | 0.0345 | 0.0487 | 6      | 0.80             | 1%             | 0    |
| 035.32      | Sodium, AAS, Open vessel | 609      | 1.3450   | 0.1300 | 1.3056        | 0.0345 | 0.0487 | 6      | 1.14             | 2%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 550      | 1.0315   | 0.0850 | 1.2599        | 0.0483 | 0.0300 | 30     | -4.73            | 9%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 89       | 1.0550   | 0.0100 | 1.2599        | 0.0483 | 0.0300 | 30     | -4.25            | 8%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 300      | 1.2000   | 0.0200 | 1.2599        | 0.0483 | 0.0300 | 30     | -1.24            | 2%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 358      | 1.2000   | 0.0600 | 1.2599        | 0.0483 | 0.0300 | 30     | -1.24            | 2%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 242      | 1.2150   | 0.0100 | 1.2599        | 0.0483 | 0.0300 | 30     | -0.93            | 2%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 144      | 1.2200   | 0.0200 | 1.2599        | 0.0483 | 0.0300 | 30     | -0.83            | 2%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 598      | 1.2200   | 0.0460 | 1.2599        | 0.0483 | 0.0300 | 30     | -0.83            | 2%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 208      | 1.2280   | 0.0080 | 1.2599        | 0.0483 | 0.0300 | 30     | -0.66            | 1%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 11       | 1.2289   | 0.0250 | 1.2599        | 0.0483 | 0.0300 | 30     | -0.64            | 1%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 553      | 1.2300   | 0.0800 | 1.2599        | 0.0483 | 0.0300 | 30     | -0.62            | 1%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 148      | 1.2385   | 0.0070 | 1.2599        | 0.0483 | 0.0300 | 30     | -0.44            | 1%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 49       | 1.2400   | 0.0000 | 1.2599        | 0.0483 | 0.0300 | 30     | -0.41            | 1%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 98       | 1.2450   | 0.0900 | 1.2599        | 0.0483 | 0.0300 | 30     | -0.31            | 1%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 229      | 1.2500   | 0.0200 | 1.2599        | 0.0483 | 0.0300 | 30     | -0.21            | 0%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 171      | 1.2650   | 0.0300 | 1.2599        | 0.0483 | 0.0300 | 30     | 0.11             | 0%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 164      | 1.2700   | 0.0600 | 1.2599        | 0.0483 | 0.0300 | 30     | 0.21             | 0%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 425      | 1.2750   | 0.0100 | 1.2599        | 0.0483 | 0.0300 | 30     | 0.31             | 1%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 610      | 1.2750   | 0.0300 | 1.2599        | 0.0483 | 0.0300 | 30     | 0.31             | 1%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 695      | 1.2750   | 0.0100 | 1.2599        | 0.0483 | 0.0300 | 30     | 0.31             | 1%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 3        | 1.2800   | 0.0200 | 1.2599        | 0.0483 | 0.0300 | 30     | 0.42             | 1%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 8        | 1.2806   | 0.0358 | 1.2599        | 0.0483 | 0.0300 | 30     | 0.43             | 1%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 51       | 1.2850   | 0.0900 | 1.2599        | 0.0483 | 0.0300 | 30     | 0.52             | 1%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 298      | 1.2900   | 0.0200 | 1.2599        | 0.0483 | 0.0300 | 30     | 0.62             | 1%             | 0    |
| 035.41      | Sodium, ICP, Dry ash     | 682      | 1.2900   | 0.0200 | 1.2599        | 0.0483 | 0.0300 | 30     | 0.62             | 1%             | 0    |

| Method Code | Analyte Name and Method     | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-----------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                             |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 035.41      | Sodium, ICP, Dry ash        | 226      | 1.3000   | 0.0200 | 1.2599        | 0.0483 | 0.0300 | 30     | <b>0.83</b>      | 2%             | 0    |
| 035.41      | Sodium, ICP, Dry ash        | 265      | 1.3100   | 0.0000 | 1.2599        | 0.0483 | 0.0300 | 30     | <b>1.04</b>      | 2%             | 0    |
| 035.41      | Sodium, ICP, Dry ash        | 413      | 1.3200   | 0.0400 | 1.2599        | 0.0483 | 0.0300 | 30     | <b>1.25</b>      | 2%             | 0    |
| 035.41      | Sodium, ICP, Dry ash        | 511      | 1.3250   | 0.0100 | 1.2599        | 0.0483 | 0.0300 | 30     | <b>1.35</b>      | 3%             | 0    |
| 035.41      | Sodium, ICP, Dry ash        | 100      | 1.3300   | 0.0200 | 1.2599        | 0.0483 | 0.0300 | 30     | <b>1.45</b>      | 3%             | 0    |
| 035.41      | Sodium, ICP, Dry ash        | 4        | 1.3410   | 0.0020 | 1.2599        | 0.0483 | 0.0300 | 30     | <b>1.68</b>      | 3%             | 0    |
| 035.41      | Sodium, ICP, Dry ash        | 520      | 1.2000   | 0.1800 | 1.2599        | 0.0483 | 0.0300 | 30     | <b>-1.24</b>     | 2%             | 1    |
| 035.41      | Sodium, ICP, Dry ash        | 407      | 2.0200   | 0.0400 | 1.2599        | 0.0483 | 0.0300 | 30     | <b>15.75</b>     | 30%            | 2    |
| 035.42      | Sodium, ICP, Open vessel    | 616      | 1.0950   | 0.0100 | 1.2847        | 0.1116 | 0.0389 | 15     | <b>-1.70</b>     | 7%             | 0    |
| 035.42      | Sodium, ICP, Open vessel    | 35       | 1.1800   | 0.0000 | 1.2847        | 0.1116 | 0.0389 | 15     | <b>-0.94</b>     | 4%             | 0    |
| 035.42      | Sodium, ICP, Open vessel    | 613      | 1.1850   | 0.0700 | 1.2847        | 0.1116 | 0.0389 | 15     | <b>-0.89</b>     | 4%             | 0    |
| 035.42      | Sodium, ICP, Open vessel    | 106      | 1.2050   | 0.0300 | 1.2847        | 0.1116 | 0.0389 | 15     | <b>-0.71</b>     | 3%             | 0    |
| 035.42      | Sodium, ICP, Open vessel    | 366      | 1.2100   | 0.0600 | 1.2847        | 0.1116 | 0.0389 | 15     | <b>-0.67</b>     | 3%             | 0    |
| 035.42      | Sodium, ICP, Open vessel    | 45       | 1.2550   | 0.0300 | 1.2847        | 0.1116 | 0.0389 | 15     | <b>-0.27</b>     | 1%             | 0    |
| 035.42      | Sodium, ICP, Open vessel    | 278      | 1.2600   | 0.0200 | 1.2847        | 0.1116 | 0.0389 | 15     | <b>-0.22</b>     | 1%             | 0    |
| 035.42      | Sodium, ICP, Open vessel    | 693      | 1.2600   | 0.1400 | 1.2847        | 0.1116 | 0.0389 | 15     | <b>-0.22</b>     | 1%             | 0    |
| 035.42      | Sodium, ICP, Open vessel    | 21       | 1.2850   | 0.0300 | 1.2847        | 0.1116 | 0.0389 | 15     | <b>0.00</b>      | 0%             | 0    |
| 035.42      | Sodium, ICP, Open vessel    | 199      | 1.3150   | 0.0100 | 1.2847        | 0.1116 | 0.0389 | 15     | <b>0.27</b>      | 1%             | 0    |
| 035.42      | Sodium, ICP, Open vessel    | 187      | 1.3550   | 0.0100 | 1.2847        | 0.1116 | 0.0389 | 15     | <b>0.63</b>      | 3%             | 0    |
| 035.42      | Sodium, ICP, Open vessel    | 504      | 1.3630   | 0.0120 | 1.2847        | 0.1116 | 0.0389 | 15     | <b>0.70</b>      | 3%             | 0    |
| 035.42      | Sodium, ICP, Open vessel    | 160      | 1.4866   | 0.0309 | 1.2847        | 0.1116 | 0.0389 | 15     | <b>1.81</b>      | 8%             | 0    |
| 035.42      | Sodium, ICP, Open vessel    | 560      | 1.5350   | 0.0500 | 1.2847        | 0.1116 | 0.0389 | 15     | <b>2.24</b>      | 10%            | 0    |
| 035.42      | Sodium, ICP, Open vessel    | 202      | 3.5700   | 0.0800 | 1.2847        | 0.1116 | 0.0389 | 15     | <b>20.48</b>     | 89%            | 0    |
| 035.43      | Sodium, ICP, Microwave      | 508      | 0.1234   | 0.0011 | 1.2257        | 0.1055 | 0.0070 | 7      | <b>-10.45</b>    | 45%            | 0    |
| 035.43      | Sodium, ICP, Microwave      | 353      | 1.1500   | 0.0000 | 1.2257        | 0.1055 | 0.0070 | 7      | <b>-0.72</b>     | 3%             | 0    |
| 035.43      | Sodium, ICP, Microwave      | 345      | 1.2250   | 0.0100 | 1.2257        | 0.1055 | 0.0070 | 7      | <b>-0.01</b>     | 0%             | 0    |
| 035.43      | Sodium, ICP, Microwave      | 510      | 1.2250   | 0.0180 | 1.2257        | 0.1055 | 0.0070 | 7      | <b>-0.01</b>     | 0%             | 0    |
| 035.43      | Sodium, ICP, Microwave      | 42       | 1.2400   | 0.0000 | 1.2257        | 0.1055 | 0.0070 | 7      | <b>0.14</b>      | 1%             | 0    |
| 035.43      | Sodium, ICP, Microwave      | 38       | 1.2900   | 0.0200 | 1.2257        | 0.1055 | 0.0070 | 7      | <b>0.61</b>      | 3%             | 0    |
| 035.43      | Sodium, ICP, Microwave      | 294      | 1.4000   | 0.0000 | 1.2257        | 0.1055 | 0.0070 | 7      | <b>1.65</b>      | 7%             | 0    |
| 035.52      | Sodium, ICP-MS, Open vessel | 154      | 1.2459   | 0.1023 |               |        | 0.1023 | 1      |                  |                |      |
| 035.53      | Sodium, ICP-MS, Microwave   | 572      | 1.1700   | 0.2000 | 1.2518        | 0.1156 | 0.1035 | 2      | <b>-0.71</b>     | 3%             | 0    |
| 035.53      | Sodium, ICP-MS, Microwave   | 39       | 1.3335   | 0.0070 | 1.2518        | 0.1156 | 0.1035 | 2      | <b>0.71</b>      | 3%             | 0    |
| 035.99      | Sodium, Miscellaneous       | 505      | 1.2300   | 0.0200 | 1.2518        | 0.1156 | 0.0200 | 1      | <b>-0.19</b>     | 1%             | 0    |
| 035.99      | Sodium, Miscellaneous       | 692      | -1.0000  | 0.0000 | 1.2518        | 0.1156 | 0.0200 | 1      | <b>-19.48</b>    | 90%            | 3    |
| 036.04      | Sulfur, LECO                | 226      | 0.4800   | 0.0200 | 0.5150        | 0.0495 | 0.0200 | 2      | <b>-0.71</b>     | 3%             | 0    |
| 036.04      | Sulfur, LECO                | 98       | 0.5500   | 0.0200 | 0.5150        | 0.0495 | 0.0200 | 2      | <b>0.71</b>      | 3%             | 0    |
| 036.42      | Sulfur, ICP, Open vessel    | 265      | 0.4050   | 0.0100 | 0.5098        | 0.0617 | 0.0141 | 15     | <b>-1.70</b>     | 10%            | 0    |
| 036.42      | Sulfur, ICP, Open vessel    | 693      | 0.4500   | 0.0400 | 0.5098        | 0.0617 | 0.0141 | 15     | <b>-0.97</b>     | 6%             | 0    |
| 036.42      | Sulfur, ICP, Open vessel    | 366      | 0.4500   | 0.0200 | 0.5098        | 0.0617 | 0.0141 | 15     | <b>-0.97</b>     | 6%             | 0    |
| 036.42      | Sulfur, ICP, Open vessel    | 300      | 0.4550   | 0.0300 | 0.5098        | 0.0617 | 0.0141 | 15     | <b>-0.89</b>     | 5%             | 0    |
| 036.42      | Sulfur, ICP, Open vessel    | 106      | 0.4650   | 0.0100 | 0.5098        | 0.0617 | 0.0141 | 15     | <b>-0.73</b>     | 4%             | 0    |

| Method Code | Analyte Name and Method     | Lab Code | Lab Data |         | Method Values |         |         |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-----------------------------|----------|----------|---------|---------------|---------|---------|--------|------------------|----------------|------|
|             |                             |          | Value    | range   | Rob Mean      | Rob SD  | R-bar   | # Labs |                  |                |      |
| 036.42      | Sulfur, ICP, Open vessel    | 616      | 0.4855   | 0.0010  | 0.5098        | 0.0617  | 0.0141  | 15     | -0.39            | 2%             | 0    |
| 036.42      | Sulfur, ICP, Open vessel    | 45       | 0.4955   | 0.0070  | 0.5098        | 0.0617  | 0.0141  | 15     | -0.23            | 1%             | 0    |
| 036.42      | Sulfur, ICP, Open vessel    | 171      | 0.5090   | 0.0040  | 0.5098        | 0.0617  | 0.0141  | 15     | -0.01            | 0%             | 0    |
| 036.42      | Sulfur, ICP, Open vessel    | 278      | 0.5250   | 0.0100  | 0.5098        | 0.0617  | 0.0141  | 15     | 0.25             | 1%             | 0    |
| 036.42      | Sulfur, ICP, Open vessel    | 160      | 0.5520   | 0.0038  | 0.5098        | 0.0617  | 0.0141  | 15     | 0.68             | 4%             | 0    |
| 036.42      | Sulfur, ICP, Open vessel    | 21       | 0.5530   | 0.0000  | 0.5098        | 0.0617  | 0.0141  | 15     | 0.70             | 4%             | 0    |
| 036.42      | Sulfur, ICP, Open vessel    | 708      | 0.5605   | 0.0190  | 0.5098        | 0.0617  | 0.0141  | 15     | 0.82             | 5%             | 0    |
| 036.42      | Sulfur, ICP, Open vessel    | 187      | 0.5687   | 0.0017  | 0.5098        | 0.0617  | 0.0141  | 15     | 0.95             | 6%             | 0    |
| 036.42      | Sulfur, ICP, Open vessel    | 202      | 0.5750   | 0.0500  | 0.5098        | 0.0617  | 0.0141  | 15     | 1.06             | 6%             | 0    |
| 036.42      | Sulfur, ICP, Open vessel    | 560      | 0.5855   | 0.0050  | 0.5098        | 0.0617  | 0.0141  | 15     | 1.23             | 7%             | 0    |
| 036.43      | Sulfur, ICP, Microwave      | 42       | 0.3950   | 0.0080  | 0.4936        | 0.0347  | 0.0070  | 8      | -2.84            | 10%            | 0    |
| 036.43      | Sulfur, ICP, Microwave      | 510      | 0.4700   | 0.0000  | 0.4936        | 0.0347  | 0.0070  | 8      | -0.68            | 2%             | 0    |
| 036.43      | Sulfur, ICP, Microwave      | 353      | 0.4750   | 0.0100  | 0.4936        | 0.0347  | 0.0070  | 8      | -0.54            | 2%             | 0    |
| 036.43      | Sulfur, ICP, Microwave      | 345      | 0.4850   | 0.0100  | 0.4936        | 0.0347  | 0.0070  | 8      | -0.25            | 1%             | 0    |
| 036.43      | Sulfur, ICP, Microwave      | 508      | 0.5008   | 0.0106  | 0.4936        | 0.0347  | 0.0070  | 8      | 0.21             | 1%             | 0    |
| 036.43      | Sulfur, ICP, Microwave      | 38       | 0.5125   | 0.0070  | 0.4936        | 0.0347  | 0.0070  | 8      | 0.54             | 2%             | 0    |
| 036.43      | Sulfur, ICP, Microwave      | 169      | 0.5200   | 0.0000  | 0.4936        | 0.0347  | 0.0070  | 8      | 0.76             | 3%             | 0    |
| 036.43      | Sulfur, ICP, Microwave      | 294      | 0.5450   | 0.0100  | 0.4936        | 0.0347  | 0.0070  | 8      | 1.48             | 5%             | 0    |
| 036.52      | Sulfur, ICP-MS, Open vessel | 154      | 0.5281   | 0.0370  |               |         | 0.0370  | 1      |                  |                |      |
| 036.99      | Sulfur, Miscellaneous       | 550      | 0.2690   | 0.0100  |               |         | 0.0100  | 1      |                  |                |      |
| 037.02      | Zinc, DCP                   | 83       | 657.0000 | 8.0000  |               |         | 8.0000  | 1      |                  |                |      |
| 037.31      | Zinc, AAS, Dry ash          | 596      | 434.5000 | 9.0000  | 643.8958      | 34.5621 | 10.9184 | 19     | -6.06            | 16%            | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 866      | 552.3300 | 15.7200 | 643.8958      | 34.5621 | 10.9184 | 19     | -2.65            | 7%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 731      | 581.5000 | 1.0000  | 643.8958      | 34.5621 | 10.9184 | 19     | -1.81            | 5%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 874      | 598.5000 | 1.0000  | 643.8958      | 34.5621 | 10.9184 | 19     | -1.31            | 4%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 14       | 630.5000 | 7.0000  | 643.8958      | 34.5621 | 10.9184 | 19     | -0.39            | 1%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 619      | 632.5000 | 39.0000 | 643.8958      | 34.5621 | 10.9184 | 19     | -0.33            | 1%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 175      | 634.0000 | 12.0000 | 643.8958      | 34.5621 | 10.9184 | 19     | -0.29            | 1%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 590      | 636.0000 | 14.0000 | 643.8958      | 34.5621 | 10.9184 | 19     | -0.23            | 1%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 305      | 640.0950 | 4.9100  | 643.8958      | 34.5621 | 10.9184 | 19     | -0.11            | 0%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 4        | 644.0000 | 2.0000  | 643.8958      | 34.5621 | 10.9184 | 19     | 0.00             | 0%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 178      | 644.0000 | 12.0000 | 643.8958      | 34.5621 | 10.9184 | 19     | 0.00             | 0%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 669      | 644.0800 | 21.0600 | 643.8958      | 34.5621 | 10.9184 | 19     | 0.01             | 0%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 505      | 650.0000 | 20.0000 | 643.8958      | 34.5621 | 10.9184 | 19     | 0.18             | 0%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 868      | 664.0000 | 10.0000 | 643.8958      | 34.5621 | 10.9184 | 19     | 0.58             | 2%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 354      | 676.7250 | 8.2700  | 643.8958      | 34.5621 | 10.9184 | 19     | 0.95             | 3%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 653      | 678.1000 | 2.4000  | 643.8958      | 34.5621 | 10.9184 | 19     | 0.99             | 3%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 208      | 685.0000 | 2.0000  | 643.8958      | 34.5621 | 10.9184 | 19     | 1.19             | 3%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 350      | 694.0000 | 16.0000 | 643.8958      | 34.5621 | 10.9184 | 19     | 1.45             | 4%             | 0    |
| 037.31      | Zinc, AAS, Dry ash          | 675      | 701.9950 | 10.0900 | 643.8958      | 34.5621 | 10.9184 | 19     | 1.68             | 5%             | 0    |
| 037.32      | Zinc, AAS, Open vessel      | 656      | 648.7650 | 20.0100 | 698.0072      | 52.6577 | 8.4141  | 5      | -0.94            | 4%             | 0    |
| 037.32      | Zinc, AAS, Open vessel      | 13       | 665.5000 | 15.0000 | 698.0072      | 52.6577 | 8.4141  | 5      | -0.62            | 2%             | 0    |

| Method Code | Analyte Name and Method | Lab Code | Lab Data |         | Method Values |         |         |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-------------------------|----------|----------|---------|---------------|---------|---------|--------|------------------|----------------|------|
|             |                         |          | Value    | range   | Rob Mean      | Rob SD  | R-bar   | # Labs |                  |                |      |
| 037.32      | Zinc, AAS, Open vessel  | 35       | 676.5000 | 1.0000  | 698.0072      | 52.6577 | 8.4141  | 5      | -0.41            | 2%             | 0    |
| 037.32      | Zinc, AAS, Open vessel  | 38       | 719.5000 | 1.0000  | 698.0072      | 52.6577 | 8.4141  | 5      | 0.41             | 2%             | 0    |
| 037.32      | Zinc, AAS, Open vessel  | 722      | 779.7710 | 5.0603  | 698.0072      | 52.6577 | 8.4141  | 5      | 1.55             | 6%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 695      | 558.9350 | 3.5500  | 624.0575      | 35.1251 | 11.7556 | 28     | -1.85            | 5%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 407      | 559.0000 | 2.0000  | 624.0575      | 35.1251 | 11.7556 | 28     | -1.85            | 5%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 49       | 564.1350 | 22.5900 | 624.0575      | 35.1251 | 11.7556 | 28     | -1.71            | 5%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 610      | 569.0000 | 4.0000  | 624.0575      | 35.1251 | 11.7556 | 28     | -1.57            | 4%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 100      | 582.0000 | 4.0000  | 624.0575      | 35.1251 | 11.7556 | 28     | -1.20            | 3%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 148      | 585.3500 | 3.7000  | 624.0575      | 35.1251 | 11.7556 | 28     | -1.10            | 3%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 164      | 590.0000 | 6.0000  | 624.0575      | 35.1251 | 11.7556 | 28     | -0.97            | 3%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 598      | 607.5000 | 19.0000 | 624.0575      | 35.1251 | 11.7556 | 28     | -0.47            | 1%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 358      | 613.4550 | 22.6500 | 624.0575      | 35.1251 | 11.7556 | 28     | -0.30            | 1%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 26       | 616.0000 | 4.0000  | 624.0575      | 35.1251 | 11.7556 | 28     | -0.23            | 1%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 553      | 617.5000 | 27.0000 | 624.0575      | 35.1251 | 11.7556 | 28     | -0.19            | 1%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 242      | 620.0000 | 20.0000 | 624.0575      | 35.1251 | 11.7556 | 28     | -0.12            | 0%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 11       | 622.2600 | 5.2400  | 624.0575      | 35.1251 | 11.7556 | 28     | -0.05            | 0%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 229      | 625.0000 | 10.0000 | 624.0575      | 35.1251 | 11.7556 | 28     | 0.03             | 0%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 511      | 625.5000 | 9.0000  | 624.0575      | 35.1251 | 11.7556 | 28     | 0.04             | 0%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 4        | 626.5000 | 11.0000 | 624.0575      | 35.1251 | 11.7556 | 28     | 0.07             | 0%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 51       | 632.8050 | 20.4300 | 624.0575      | 35.1251 | 11.7556 | 28     | 0.25             | 1%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 8        | 634.7570 | 7.4574  | 624.0575      | 35.1251 | 11.7556 | 28     | 0.30             | 1%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 98       | 635.0000 | 18.0000 | 624.0575      | 35.1251 | 11.7556 | 28     | 0.31             | 1%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 425      | 636.0000 | 5.6000  | 624.0575      | 35.1251 | 11.7556 | 28     | 0.34             | 1%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 3        | 641.5000 | 11.0000 | 624.0575      | 35.1251 | 11.7556 | 28     | 0.50             | 1%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 550      | 649.7000 | 16.2000 | 624.0575      | 35.1251 | 11.7556 | 28     | 0.73             | 2%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 512      | 651.8500 | 10.7000 | 624.0575      | 35.1251 | 11.7556 | 28     | 0.79             | 2%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 171      | 664.5000 | 11.0000 | 624.0575      | 35.1251 | 11.7556 | 28     | 1.15             | 3%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 682      | 666.6200 | 24.0400 | 624.0575      | 35.1251 | 11.7556 | 28     | 1.21             | 3%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 226      | 704.5000 | 19.0000 | 624.0575      | 35.1251 | 11.7556 | 28     | 2.29             | 6%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 265      | 739.0000 | 8.0000  | 624.0575      | 35.1251 | 11.7556 | 28     | 3.27             | 9%             | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 208      | 754.0000 | 4.0000  | 624.0575      | 35.1251 | 11.7556 | 28     | 3.70             | 10%            | 0    |
| 037.41      | Zinc, ICP, Dry ash      | 520      | 642.5000 | 83.0000 | 624.0575      | 35.1251 | 11.7556 | 28     | 0.53             | 1%             | 1    |
| 037.42      | Zinc, ICP, Open vessel  | 616      | 443.5000 | 9.0000  | 650.6317      | 35.1290 | 13.2494 | 18     | -5.90            | 16%            | 0    |
| 037.42      | Zinc, ICP, Open vessel  | 199      | 555.3500 | 4.7000  | 650.6317      | 35.1290 | 13.2494 | 18     | -2.71            | 7%             | 0    |
| 037.42      | Zinc, ICP, Open vessel  | 693      | 586.0000 | 12.0000 | 650.6317      | 35.1290 | 13.2494 | 18     | -1.84            | 5%             | 0    |
| 037.42      | Zinc, ICP, Open vessel  | 613      | 599.0000 | 34.0000 | 650.6317      | 35.1290 | 13.2494 | 18     | -1.47            | 4%             | 0    |
| 037.42      | Zinc, ICP, Open vessel  | 366      | 620.5000 | 21.0000 | 650.6317      | 35.1290 | 13.2494 | 18     | -0.86            | 2%             | 0    |
| 037.42      | Zinc, ICP, Open vessel  | 413      | 630.5000 | 9.0000  | 650.6317      | 35.1290 | 13.2494 | 18     | -0.57            | 2%             | 0    |
| 037.42      | Zinc, ICP, Open vessel  | 190      | 648.7600 | 1.1600  | 650.6317      | 35.1290 | 13.2494 | 18     | -0.05            | 0%             | 0    |
| 037.42      | Zinc, ICP, Open vessel  | 37       | 649.5000 | 3.0000  | 650.6317      | 35.1290 | 13.2494 | 18     | -0.03            | 0%             | 0    |
| 037.42      | Zinc, ICP, Open vessel  | 187      | 656.1350 | 0.5300  | 650.6317      | 35.1290 | 13.2494 | 18     | 0.16             | 0%             | 0    |
| 037.42      | Zinc, ICP, Open vessel  | 726      | 661.8500 | 6.1000  | 650.6317      | 35.1290 | 13.2494 | 18     | 0.32             | 1%             | 0    |

| Method Code | Analyte Name and Method         | Lab Code | Lab Data |          | Method Values |         |         |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|---------------------------------|----------|----------|----------|---------------|---------|---------|--------|------------------|----------------|------|
|             |                                 |          | Value    | range    | Rob Mean      | Rob SD  | R-bar   | # Labs |                  |                |      |
| 037.42      | Zinc, ICP, Open vessel          | 98       | 662.0000 | 20.0000  | 650.6317      | 35.1290 | 13.2494 | 18     | <b>0.32</b>      | 1%             | 0    |
| 037.42      | Zinc, ICP, Open vessel          | 21       | 663.0000 | 24.0000  | 650.6317      | 35.1290 | 13.2494 | 18     | <b>0.35</b>      | 1%             | 0    |
| 037.42      | Zinc, ICP, Open vessel          | 45       | 663.5000 | 41.0000  | 650.6317      | 35.1290 | 13.2494 | 18     | <b>0.37</b>      | 1%             | 0    |
| 037.42      | Zinc, ICP, Open vessel          | 35       | 673.0000 | 0.0000   | 650.6317      | 35.1290 | 13.2494 | 18     | <b>0.64</b>      | 2%             | 0    |
| 037.42      | Zinc, ICP, Open vessel          | 560      | 681.0000 | 8.0000   | 650.6317      | 35.1290 | 13.2494 | 18     | <b>0.86</b>      | 2%             | 0    |
| 037.42      | Zinc, ICP, Open vessel          | 106      | 684.0000 | 2.0000   | 650.6317      | 35.1290 | 13.2494 | 18     | <b>0.95</b>      | 3%             | 0    |
| 037.42      | Zinc, ICP, Open vessel          | 160      | 687.5000 | 13.0000  | 650.6317      | 35.1290 | 13.2494 | 18     | <b>1.05</b>      | 3%             | 0    |
| 037.42      | Zinc, ICP, Open vessel          | 202      | 712.5000 | 30.0000  | 650.6317      | 35.1290 | 13.2494 | 18     | <b>1.76</b>      | 5%             | 0    |
| 037.43      | Zinc, ICP, Microwave            | 294      | 568.0500 | 1.9000   | 634.5173      | 49.5905 | 11.5134 | 11     | <b>-1.34</b>     | 5%             | 0    |
| 037.43      | Zinc, ICP, Microwave            | 353      | 600.9500 | 5.7000   | 634.5173      | 49.5905 | 11.5134 | 11     | <b>-0.68</b>     | 3%             | 0    |
| 037.43      | Zinc, ICP, Microwave            | 510      | 603.5000 | 13.0000  | 634.5173      | 49.5905 | 11.5134 | 11     | <b>-0.63</b>     | 2%             | 0    |
| 037.43      | Zinc, ICP, Microwave            | 345      | 604.9000 | 2.6000   | 634.5173      | 49.5905 | 11.5134 | 11     | <b>-0.60</b>     | 2%             | 0    |
| 037.43      | Zinc, ICP, Microwave            | 169      | 609.0000 | 18.0000  | 634.5173      | 49.5905 | 11.5134 | 11     | <b>-0.51</b>     | 2%             | 0    |
| 037.43      | Zinc, ICP, Microwave            | 508      | 637.9850 | 27.3800  | 634.5173      | 49.5905 | 11.5134 | 11     | <b>0.07</b>      | 0%             | 0    |
| 037.43      | Zinc, ICP, Microwave            | 42       | 639.5000 | 15.0000  | 634.5173      | 49.5905 | 11.5134 | 11     | <b>0.10</b>      | 0%             | 0    |
| 037.43      | Zinc, ICP, Microwave            | 846      | 648.6550 | 1.6100   | 634.5173      | 49.5905 | 11.5134 | 11     | <b>0.29</b>      | 1%             | 0    |
| 037.43      | Zinc, ICP, Microwave            | 121      | 653.2475 | 1.4570   | 634.5173      | 49.5905 | 11.5134 | 11     | <b>0.38</b>      | 1%             | 0    |
| 037.43      | Zinc, ICP, Microwave            | 27       | 705.0000 | 26.0000  | 634.5173      | 49.5905 | 11.5134 | 11     | <b>1.42</b>      | 6%             | 0    |
| 037.43      | Zinc, ICP, Microwave            | 38       | 713.0000 | 14.0000  | 634.5173      | 49.5905 | 11.5134 | 11     | <b>1.58</b>      | 6%             | 0    |
| 037.52      | Zinc, ICP-MS, Open vessel       | 154      | 619.0000 | 30.0000  |               |         | 30.0000 | 1      |                  |                |      |
| 037.53      | Zinc, ICP-MS, Microwave         | 572      | 624.5000 | 105.0000 | 638.3250      | 19.5515 | 57.7500 | 2      | <b>-0.71</b>     | 1%             | 0    |
| 037.53      | Zinc, ICP-MS, Microwave         | 39       | 652.1500 | 10.5000  | 638.3250      | 19.5515 | 57.7500 | 2      | <b>0.71</b>      | 1%             | 0    |
| 037.99      | Zinc, Miscellaneous             | 563      | 638.9500 | 1.3000   | 638.3250      | 19.5515 | 1.3000  | 1      | <b>0.03</b>      | 0%             | 0    |
| 037.99      | Zinc, Miscellaneous             | 692      | -1.0000  | 0.0000   | 638.3250      | 19.5515 | 1.3000  | 1      | <b>-32.70</b>    | 50%            | 3    |
| 038.31      | Molybdenum, AAS, Dry ash        | 164      | 3.0000   | 0.0000   |               |         | 0.0000  | 1      |                  |                |      |
| 038.41      | Molybdenum, ICP, Dry ash        | 11       | 1.9793   | 0.0535   |               |         | 0.0535  | 1      |                  |                |      |
| 038.42      | Molybdenum, ICP, Open vessel    | 106      | 1.6500   | 0.1000   | 1.8617        | 0.2322  | 0.1633  | 3      | <b>-0.91</b>     | 6%             | 0    |
| 038.42      | Molybdenum, ICP, Open vessel    | 21       | 1.8250   | 0.1500   | 1.8617        | 0.2322  | 0.1633  | 3      | <b>-0.16</b>     | 1%             | 0    |
| 038.42      | Molybdenum, ICP, Open vessel    | 560      | 2.1100   | 0.2400   | 1.8617        | 0.2322  | 0.1633  | 3      | <b>1.07</b>      | 7%             | 0    |
| 038.43      | Molybdenum, ICP, Microwave      | 169      | 0.0000   | 0.0000   | 1.5000        | 1.3229  | 0.0000  | 3      | <b>-1.13</b>     | 50%            | 0    |
| 038.43      | Molybdenum, ICP, Microwave      | 38       | 2.0000   | 0.0000   | 1.5000        | 1.3229  | 0.0000  | 3      | <b>0.38</b>      | 17%            | 0    |
| 038.43      | Molybdenum, ICP, Microwave      | 510      | 2.5000   | 0.0000   | 1.5000        | 1.3229  | 0.0000  | 3      | <b>0.76</b>      | 33%            | 0    |
| 038.52      | Molybdenum, ICP-MS, Open vessel | 154      | 2.2200   | 0.0000   |               |         | 0.0000  | 1      |                  |                |      |
| 039.31      | Nickel, AAS, Dry ash            | 164      | 13.5000  | 1.0000   |               |         | 1.0000  | 1      |                  |                |      |
| 039.41      | Nickel, ICP, Dry ash            | 11       | 14.3243  | 0.7685   |               |         | 0.7685  | 1      |                  |                |      |
| 039.42      | Nickel, ICP, Open vessel        | 560      | 15.2000  | 1.4000   | 16.7000       | 2.1213  | 1.1000  | 2      | <b>-0.71</b>     | 4%             | 0    |
| 039.42      | Nickel, ICP, Open vessel        | 21       | 18.2000  | 0.8000   | 16.7000       | 2.1213  | 1.1000  | 2      | <b>0.71</b>      | 4%             | 0    |
| 039.52      | Nickel, ICP-MS, Open vessel     | 154      | 15.7500  | 0.1000   |               |         | 0.1000  | 1      |                  |                |      |
| 040.42      | Barium, ICP, Open vessel        | 560      | 6.7750   | 0.0300   |               |         | 0.0300  | 1      |                  |                |      |
| 040.43      | Barium, ICP, Microwave          | 508      | 6.9570   | 0.1320   |               |         | 0.1320  | 1      |                  |                |      |
| 041.41      | Vanadium, ICP, Dry ash          | 11       | 3.1755   | 0.1140   |               |         | 0.1140  | 1      |                  |                |      |
| 041.42      | Vanadium, ICP, Open vessel      | 21       | 3.2250   | 0.0500   |               |         | 0.0500  | 1      |                  |                |      |

| Method Code | Analyte Name and Method       | Lab Code | Lab Data |         | Method Values |         |         |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|-------------------------------|----------|----------|---------|---------------|---------|---------|--------|------------------|----------------|------|
|             |                               |          | Value    | range   | Rob Mean      | Rob SD  | R-bar   | # Labs |                  |                |      |
| 041.43      | Vanadium, ICP, Microwave      | 508      | 3.2355   | 0.5590  |               |         | 0.5590  | 1      |                  |                |      |
| 041.52      | Vanadium, ICP-MS, Open vessel | 154      | 2.6600   | 0.0000  |               |         | 0.0000  | 1      |                  |                |      |
| 065.00      | Monensin, Plate               | 16       | 266.5000 | 1.0000  | 273.4900      | 5.7206  | 15.9400 | 5      | -1.22            | 1%             | 0    |
| 065.00      | Monensin, Plate               | 43       | 268.2000 | 0.8000  | 273.4900      | 5.7206  | 15.9400 | 5      | -0.92            | 1%             | 0    |
| 065.00      | Monensin, Plate               | 27       | 276.2500 | 6.9000  | 273.4900      | 5.7206  | 15.9400 | 5      | 0.48             | 1%             | 0    |
| 065.00      | Monensin, Plate               | 28       | 277.5000 | 71.0000 | 273.4900      | 5.7206  | 15.9400 | 5      | 0.70             | 1%             | 0    |
| 065.00      | Monensin, Plate               | 35       | 279.0000 | 0.0000  | 273.4900      | 5.7206  | 15.9400 | 5      | 0.96             | 1%             | 0    |
| 065.01      | Monensin, Turbid              | 27       | 241.2500 | 15.5000 | 260.8333      | 21.4452 | 11.2667 | 3      | -0.91            | 4%             | 0    |
| 065.01      | Monensin, Turbid              | 36       | 257.5000 | 7.0000  | 260.8333      | 21.4452 | 11.2667 | 3      | -0.16            | 1%             | 0    |
| 065.01      | Monensin, Turbid              | 13       | 283.7500 | 11.3000 | 260.8333      | 21.4452 | 11.2667 | 3      | 1.07             | 4%             | 0    |
| 065.03      | Monensin, HPLC                | 39       | 197.5500 | 10.5000 | 278.3559      | 41.0873 | 11.6405 | 10     | -1.97            | 15%            | 0    |
| 065.03      | Monensin, HPLC                | 846      | 233.8350 | 0.1300  | 278.3559      | 41.0873 | 11.6405 | 10     | -1.08            | 8%             | 0    |
| 065.03      | Monensin, HPLC                | 14       | 264.5000 | 31.0000 | 278.3559      | 41.0873 | 11.6405 | 10     | -0.34            | 2%             | 0    |
| 065.03      | Monensin, HPLC                | 148      | 265.9500 | 0.1000  | 278.3559      | 41.0873 | 11.6405 | 10     | -0.30            | 2%             | 0    |
| 065.03      | Monensin, HPLC                | 1        | 269.3000 | 11.6000 | 278.3559      | 41.0873 | 11.6405 | 10     | -0.22            | 2%             | 0    |
| 065.03      | Monensin, HPLC                | 512      | 277.8000 | 7.2000  | 278.3559      | 41.0873 | 11.6405 | 10     | -0.01            | 0%             | 0    |
| 065.03      | Monensin, HPLC                | 875      | 298.0000 | 14.0000 | 278.3559      | 41.0873 | 11.6405 | 10     | 0.48             | 4%             | 0    |
| 065.03      | Monensin, HPLC                | 121      | 298.5375 | 4.2750  | 278.3559      | 41.0873 | 11.6405 | 10     | 0.49             | 4%             | 0    |
| 065.03      | Monensin, HPLC                | 553      | 364.5000 | 13.0000 | 278.3559      | 41.0873 | 11.6405 | 10     | 2.10             | 15%            | 0    |
| 065.03      | Monensin, HPLC                | 47       | 396.4000 | 24.6000 | 278.3559      | 41.0873 | 11.6405 | 10     | 2.87             | 21%            | 0    |
| 065.04      | Monensin, LC-PCD              | 38       | 259.0000 | 2.0000  | 264.8778      | 6.3662  | 2.5917  | 3      | -0.92            | 1%             | 0    |
| 065.04      | Monensin, LC-PCD              | 218      | 263.9935 | 1.8750  | 264.8778      | 6.3662  | 2.5917  | 3      | -0.14            | 0%             | 0    |
| 065.04      | Monensin, LC-PCD              | 866      | 271.6400 | 3.9000  | 264.8778      | 6.3662  | 2.5917  | 3      | 1.06             | 1%             | 0    |
| 065.99      | Monensin, Miscellaneous       | 171      | 234.0000 | 24.0000 | 257.9963      | 22.6488 | 8.7176  | 3      | -1.06            | 5%             | 0    |
| 065.99      | Monensin, Miscellaneous       | 563      | 260.9889 | 0.1527  | 257.9963      | 22.6488 | 8.7176  | 3      | 0.13             | 1%             | 0    |
| 065.99      | Monensin, Miscellaneous       | 10       | 279.0000 | 2.0000  | 257.9963      | 22.6488 | 8.7176  | 3      | 0.93             | 4%             | 0    |
| 104.00      | Riboflavin, Fluorometric      | 171      | 5.8000   | 0.2000  |               |         | 0.2000  | 1      |                  |                |      |
| 105.00      | Thiamine, HPLC                | 160      | 1.5450   | 0.0700  |               |         | 0.0700  | 1      |                  |                |      |
| 106.00      | Vitamin A, Color              | 171      | 29.3500  | 2.1000  |               |         | 2.1000  | 1      |                  |                |      |
| 106.02      | Vitamin A, HPLC               | 560      | 13.5000  | 1.0000  | 28.1771       | 6.5942  | 1.8305  | 24     | -2.23            | 26%            | 0    |
| 106.02      | Vitamin A, HPLC               | 676      | 18.8500  | 3.3000  | 28.1771       | 6.5942  | 1.8305  | 24     | -1.41            | 17%            | 0    |
| 106.02      | Vitamin A, HPLC               | 16       | 20.0500  | 5.7000  | 28.1771       | 6.5942  | 1.8305  | 24     | -1.23            | 14%            | 0    |
| 106.02      | Vitamin A, HPLC               | 4        | 21.8900  | 0.0200  | 28.1771       | 6.5942  | 1.8305  | 24     | -0.95            | 11%            | 0    |
| 106.02      | Vitamin A, HPLC               | 160      | 22.6450  | 0.6300  | 28.1771       | 6.5942  | 1.8305  | 24     | -0.84            | 10%            | 0    |
| 106.02      | Vitamin A, HPLC               | 227      | 22.7000  | 3.2000  | 28.1771       | 6.5942  | 1.8305  | 24     | -0.83            | 10%            | 0    |
| 106.02      | Vitamin A, HPLC               | 670      | 23.7400  | 0.5600  | 28.1771       | 6.5942  | 1.8305  | 24     | -0.67            | 8%             | 0    |
| 106.02      | Vitamin A, HPLC               | 28       | 24.2300  | 2.5360  | 28.1771       | 6.5942  | 1.8305  | 24     | -0.60            | 7%             | 0    |
| 106.02      | Vitamin A, HPLC               | 875      | 24.5000  | 1.0000  | 28.1771       | 6.5942  | 1.8305  | 24     | -0.56            | 7%             | 0    |
| 106.02      | Vitamin A, HPLC               | 27       | 27.4585  | 0.5770  | 28.1771       | 6.5942  | 1.8305  | 24     | -0.11            | 1%             | 0    |
| 106.02      | Vitamin A, HPLC               | 722      | 27.9404  | 0.0156  | 28.1771       | 6.5942  | 1.8305  | 24     | -0.04            | 0%             | 0    |
| 106.02      | Vitamin A, HPLC               | 610      | 27.9500  | 0.9000  | 28.1771       | 6.5942  | 1.8305  | 24     | -0.03            | 0%             | 0    |
| 106.02      | Vitamin A, HPLC               | 169      | 28.1500  | 0.1000  | 28.1771       | 6.5942  | 1.8305  | 24     | 0.00             | 0%             | 0    |

| Method Code | Analyte Name and Method          | Lab Code | Lab Data |         | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|----------------------------------|----------|----------|---------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                  |          | Value    | range   | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 106.02      | Vitamin A, HPLC                  | 34       | 29.4000  | 0.0000  | 28.1771       | 6.5942 | 1.8305 | 24     | 0.19             | 2%             | 0    |
| 106.02      | Vitamin A, HPLC                  | 208      | 31.0000  | 1.8000  | 28.1771       | 6.5942 | 1.8305 | 24     | 0.43             | 5%             | 0    |
| 106.02      | Vitamin A, HPLC                  | 39       | 31.8200  | 1.7800  | 28.1771       | 6.5942 | 1.8305 | 24     | 0.55             | 6%             | 0    |
| 106.02      | Vitamin A, HPLC                  | 563      | 32.0136  | 0.1823  | 28.1771       | 6.5942 | 1.8305 | 24     | 0.58             | 7%             | 0    |
| 106.02      | Vitamin A, HPLC                  | 619      | 32.4000  | 5.8000  | 28.1771       | 6.5942 | 1.8305 | 24     | 0.64             | 7%             | 0    |
| 106.02      | Vitamin A, HPLC                  | 38       | 32.9400  | 2.5400  | 28.1771       | 6.5942 | 1.8305 | 24     | 0.72             | 8%             | 0    |
| 106.02      | Vitamin A, HPLC                  | 3        | 33.7000  | 0.4000  | 28.1771       | 6.5942 | 1.8305 | 24     | 0.84             | 10%            | 0    |
| 106.02      | Vitamin A, HPLC                  | 14       | 34.2000  | 5.2000  | 28.1771       | 6.5942 | 1.8305 | 24     | 0.91             | 11%            | 0    |
| 106.02      | Vitamin A, HPLC                  | 199      | 34.2500  | 0.1000  | 28.1771       | 6.5942 | 1.8305 | 24     | 0.92             | 11%            | 0    |
| 106.02      | Vitamin A, HPLC                  | 675      | 39.7050  | 0.6500  | 28.1771       | 6.5942 | 1.8305 | 24     | 1.75             | 20%            | 0    |
| 106.02      | Vitamin A, HPLC                  | 512      | 39.7500  | 5.9400  | 28.1771       | 6.5942 | 1.8305 | 24     | 1.76             | 21%            | 0    |
| 106.02      | Vitamin A, HPLC                  | 8        | 26.5860  | 53.1720 | 28.1771       | 6.5942 | 1.8305 | 24     | -0.24            | 3%             | 1    |
| 108.01      | Vitamin D, HPLC                  | 227      | 3.0200   | 0.1200  |               |        | 0.1200 | 1      |                  |                |      |
| 108.02      | Vitamin D, HPLC                  | 208      | 3.0100   | 0.0800  | 4.1450        | 1.4111 | 0.2767 | 3      | -0.80            | 14%            | 0    |
| 108.02      | Vitamin D, HPLC                  | 676      | 3.7000   | 0.4000  | 4.1450        | 1.4111 | 0.2767 | 3      | -0.32            | 5%             | 0    |
| 108.02      | Vitamin D, HPLC                  | 675      | 5.7250   | 0.3500  | 4.1450        | 1.4111 | 0.2767 | 3      | 1.12             | 19%            | 0    |
| 109.02      | Vitamin E, HPLC                  | 199      | 0.0000   | 0.0000  | 6.5112        | 3.1615 | 0.1565 | 7      | -2.06            | 50%            | 0    |
| 109.02      | Vitamin E, HPLC                  | 208      | 3.9500   | 0.2400  | 6.5112        | 3.1615 | 0.1565 | 7      | -0.81            | 20%            | 0    |
| 109.02      | Vitamin E, HPLC                  | 676      | 5.9850   | 0.1100  | 6.5112        | 3.1615 | 0.1565 | 7      | -0.17            | 4%             | 0    |
| 109.02      | Vitamin E, HPLC                  | 563      | 6.6144   | 0.2658  | 6.5112        | 3.1615 | 0.1565 | 7      | 0.03             | 1%             | 0    |
| 109.02      | Vitamin E, HPLC                  | 610      | 7.3000   | 0.0000  | 6.5112        | 3.1615 | 0.1565 | 7      | 0.25             | 6%             | 0    |
| 109.02      | Vitamin E, HPLC                  | 560      | 8.5000   | 0.2000  | 6.5112        | 3.1615 | 0.1565 | 7      | 0.63             | 15%            | 0    |
| 109.02      | Vitamin E, HPLC                  | 675      | 11.0500  | 0.2800  | 6.5112        | 3.1615 | 0.1565 | 7      | 1.44             | 35%            | 0    |
| 120.00      | Alanine, Post-col Ninhydrin Der  | 350      | 1.1255   | 0.0070  | 1.1635        | 0.0156 | 0.0153 | 13     | -2.43            | 2%             | 0    |
| 120.00      | Alanine, Post-col Ninhydrin Der  | 868      | 1.1500   | 0.0800  | 1.1635        | 0.0156 | 0.0153 | 13     | -0.86            | 1%             | 0    |
| 120.00      | Alanine, Post-col Ninhydrin Der  | 160      | 1.1504   | 0.0441  | 1.1635        | 0.0156 | 0.0153 | 13     | -0.84            | 1%             | 0    |
| 120.00      | Alanine, Post-col Ninhydrin Der  | 675      | 1.1550   | 0.0100  | 1.1635        | 0.0156 | 0.0153 | 13     | -0.54            | 0%             | 0    |
| 120.00      | Alanine, Post-col Ninhydrin Der  | 859      | 1.1560   | 0.0140  | 1.1635        | 0.0156 | 0.0153 | 13     | -0.48            | 0%             | 0    |
| 120.00      | Alanine, Post-col Ninhydrin Der  | 504      | 1.1600   | 0.0000  | 1.1635        | 0.0156 | 0.0153 | 13     | -0.22            | 0%             | 0    |
| 120.00      | Alanine, Post-col Ninhydrin Der  | 619      | 1.1600   | 0.0000  | 1.1635        | 0.0156 | 0.0153 | 13     | -0.22            | 0%             | 0    |
| 120.00      | Alanine, Post-col Ninhydrin Der  | 644      | 1.1625   | 0.0070  | 1.1635        | 0.0156 | 0.0153 | 13     | -0.06            | 0%             | 0    |
| 120.00      | Alanine, Post-col Ninhydrin Der  | 227      | 1.1700   | 0.0000  | 1.1635        | 0.0156 | 0.0153 | 13     | 0.42             | 0%             | 0    |
| 120.00      | Alanine, Post-col Ninhydrin Der  | 872      | 1.1745   | 0.0090  | 1.1635        | 0.0156 | 0.0153 | 13     | 0.71             | 0%             | 0    |
| 120.00      | Alanine, Post-col Ninhydrin Der  | 571      | 1.1900   | 0.0000  | 1.1635        | 0.0156 | 0.0153 | 13     | 1.70             | 1%             | 0    |
| 120.00      | Alanine, Post-col Ninhydrin Der  | 652      | 1.1950   | 0.0100  | 1.1635        | 0.0156 | 0.0153 | 13     | 2.02             | 1%             | 0    |
| 120.00      | Alanine, Post-col Ninhydrin Der  | 676      | 1.2230   | 0.0180  | 1.1635        | 0.0156 | 0.0153 | 13     | 3.81             | 3%             | 0    |
| 120.00      | Alanine, Post-col Ninhydrin Der  | 684      | 1.1915   | 0.1010  | 1.1635        | 0.0156 | 0.0153 | 13     | 1.79             | 1%             | 1    |
| 120.05      | Alanine, Pre-col AQC Der         | 38       | 1.0950   | 0.0700  | 1.2275        | 0.1874 | 0.0650 | 2      | -0.71            | 5%             | 0    |
| 120.05      | Alanine, Pre-col AQC Der         | 626      | 1.3600   | 0.0600  | 1.2275        | 0.1874 | 0.0650 | 2      | 0.71             | 5%             | 0    |
| 120.99      | Alanine, Miscellaneous           | 871      | 2.4750   | 0.0100  |               |        | 0.0100 | 1      |                  |                |      |
| 121.00      | Arginine, Post-col Ninhydrin Der | 684      | 1.0930   | 0.0120  | 1.1464        | 0.0437 | 0.0076 | 13     | -1.22            | 2%             | 0    |
| 121.00      | Arginine, Post-col Ninhydrin Der | 350      | 1.0990   | 0.0020  | 1.1464        | 0.0437 | 0.0076 | 13     | -1.08            | 2%             | 0    |



| Method Code | Analyte Name and Method              | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|--------------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                      |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 121.00      | Arginine, Post-col Ninhydrin Der     | 675      | 1.1050   | 0.0100 | 1.1464        | 0.0437 | 0.0076 | 13     | -0.95            | 2%             | 0    |
| 121.00      | Arginine, Post-col Ninhydrin Der     | 868      | 1.1050   | 0.0100 | 1.1464        | 0.0437 | 0.0076 | 13     | -0.95            | 2%             | 0    |
| 121.00      | Arginine, Post-col Ninhydrin Der     | 652      | 1.1350   | 0.0100 | 1.1464        | 0.0437 | 0.0076 | 13     | -0.26            | 0%             | 0    |
| 121.00      | Arginine, Post-col Ninhydrin Der     | 872      | 1.1425   | 0.0090 | 1.1464        | 0.0437 | 0.0076 | 13     | -0.09            | 0%             | 0    |
| 121.00      | Arginine, Post-col Ninhydrin Der     | 619      | 1.1450   | 0.0100 | 1.1464        | 0.0437 | 0.0076 | 13     | -0.03            | 0%             | 0    |
| 121.00      | Arginine, Post-col Ninhydrin Der     | 227      | 1.1550   | 0.0100 | 1.1464        | 0.0437 | 0.0076 | 13     | 0.20             | 0%             | 0    |
| 121.00      | Arginine, Post-col Ninhydrin Der     | 571      | 1.1600   | 0.0000 | 1.1464        | 0.0437 | 0.0076 | 13     | 0.31             | 1%             | 0    |
| 121.00      | Arginine, Post-col Ninhydrin Der     | 504      | 1.1700   | 0.0000 | 1.1464        | 0.0437 | 0.0076 | 13     | 0.54             | 1%             | 0    |
| 121.00      | Arginine, Post-col Ninhydrin Der     | 859      | 1.1850   | 0.0180 | 1.1464        | 0.0437 | 0.0076 | 13     | 0.88             | 2%             | 0    |
| 121.00      | Arginine, Post-col Ninhydrin Der     | 644      | 1.1970   | 0.0060 | 1.1464        | 0.0437 | 0.0076 | 13     | 1.16             | 2%             | 0    |
| 121.00      | Arginine, Post-col Ninhydrin Der     | 160      | 1.5694   | 0.0022 | 1.1464        | 0.0437 | 0.0076 | 13     | 9.67             | 18%            | 0    |
| 121.00      | Arginine, Post-col Ninhydrin Der     | 676      | 1.1298   | 0.0585 | 1.1464        | 0.0437 | 0.0076 | 13     | -0.38            | 1%             | 1    |
| 121.05      | Arginine, Pre-col AQC Der            | 38       | 1.1200   | 0.0800 | 1.3250        | 0.2899 | 0.0700 | 2      | -0.71            | 8%             | 0    |
| 121.05      | Arginine, Pre-col AQC Der            | 626      | 1.5300   | 0.0600 | 1.3250        | 0.2899 | 0.0700 | 2      | 0.71             | 8%             | 0    |
| 121.99      | Arginine, Miscellaneous              | 871      | 2.0900   | 0.0200 |               |        | 0.0200 | 1      |                  |                |      |
| 122.00      | Aspartic, Post-col Ninhydrin Der     | 868      | 1.4400   | 0.0200 | 1.5002        | 0.0416 | 0.0102 | 13     | -1.45            | 2%             | 0    |
| 122.00      | Aspartic, Post-col Ninhydrin Der     | 684      | 1.4590   | 0.0040 | 1.5002        | 0.0416 | 0.0102 | 13     | -0.99            | 1%             | 0    |
| 122.00      | Aspartic, Post-col Ninhydrin Der     | 160      | 1.4663   | 0.0072 | 1.5002        | 0.0416 | 0.0102 | 13     | -0.82            | 1%             | 0    |
| 122.00      | Aspartic, Post-col Ninhydrin Der     | 350      | 1.4725   | 0.0070 | 1.5002        | 0.0416 | 0.0102 | 13     | -0.67            | 1%             | 0    |
| 122.00      | Aspartic, Post-col Ninhydrin Der     | 675      | 1.4750   | 0.0100 | 1.5002        | 0.0416 | 0.0102 | 13     | -0.61            | 1%             | 0    |
| 122.00      | Aspartic, Post-col Ninhydrin Der     | 859      | 1.4875   | 0.0190 | 1.5002        | 0.0416 | 0.0102 | 13     | -0.31            | 0%             | 0    |
| 122.00      | Aspartic, Post-col Ninhydrin Der     | 619      | 1.5050   | 0.0100 | 1.5002        | 0.0416 | 0.0102 | 13     | 0.12             | 0%             | 0    |
| 122.00      | Aspartic, Post-col Ninhydrin Der     | 504      | 1.5100   | 0.0000 | 1.5002        | 0.0416 | 0.0102 | 13     | 0.24             | 0%             | 0    |
| 122.00      | Aspartic, Post-col Ninhydrin Der     | 872      | 1.5155   | 0.0010 | 1.5002        | 0.0416 | 0.0102 | 13     | 0.37             | 1%             | 0    |
| 122.00      | Aspartic, Post-col Ninhydrin Der     | 644      | 1.5285   | 0.0130 | 1.5002        | 0.0416 | 0.0102 | 13     | 0.68             | 1%             | 0    |
| 122.00      | Aspartic, Post-col Ninhydrin Der     | 571      | 1.5400   | 0.0000 | 1.5002        | 0.0416 | 0.0102 | 13     | 0.96             | 1%             | 0    |
| 122.00      | Aspartic, Post-col Ninhydrin Der     | 227      | 1.5450   | 0.0300 | 1.5002        | 0.0416 | 0.0102 | 13     | 1.08             | 1%             | 0    |
| 122.00      | Aspartic, Post-col Ninhydrin Der     | 676      | 1.5580   | 0.0120 | 1.5002        | 0.0416 | 0.0102 | 13     | 1.39             | 2%             | 0    |
| 122.00      | Aspartic, Post-col Ninhydrin Der     | 652      | 0.5350   | 0.0100 | 1.5002        | 0.0416 | 0.0102 | 13     | -23.22           | 32%            | 2    |
| 122.05      | Aspartic, Pre-col AQC Der            | 38       | 1.3750   | 0.0300 | 1.4250        | 0.0707 | 0.0300 | 2      | -0.71            | 2%             | 0    |
| 122.05      | Aspartic, Pre-col AQC Der            | 626      | 1.4750   | 0.0300 | 1.4250        | 0.0707 | 0.0300 | 2      | 0.71             | 2%             | 0    |
| 122.99      | Aspartic, Miscellaneous              | 871      | 3.2350   | 0.0500 |               |        | 0.0500 | 1      |                  |                |      |
| 123.99      | Glutamic Acid, Miscellaneous         | 871      | 6.0450   | 0.1500 |               |        | 0.1500 | 1      |                  |                |      |
| 124.00      | Cysteine/Cystine, PAO Post-col Ninhy | 859      | 0.5045   | 0.0030 | 0.5619        | 0.0533 | 0.0108 | 10     | -1.08            | 5%             | 0    |
| 124.00      | Cysteine/Cystine, PAO Post-col Ninhy | 644      | 0.5120   | 0.0000 | 0.5619        | 0.0533 | 0.0108 | 10     | -0.94            | 4%             | 0    |
| 124.00      | Cysteine/Cystine, PAO Post-col Ninhy | 350      | 0.5135   | 0.0010 | 0.5619        | 0.0533 | 0.0108 | 10     | -0.91            | 4%             | 0    |
| 124.00      | Cysteine/Cystine, PAO Post-col Ninhy | 504      | 0.5450   | 0.0300 | 0.5619        | 0.0533 | 0.0108 | 10     | -0.32            | 2%             | 0    |
| 124.00      | Cysteine/Cystine, PAO Post-col Ninhy | 619      | 0.5505   | 0.0050 | 0.5619        | 0.0533 | 0.0108 | 10     | -0.21            | 1%             | 0    |
| 124.00      | Cysteine/Cystine, PAO Post-col Ninhy | 872      | 0.5580   | 0.0120 | 0.5619        | 0.0533 | 0.0108 | 10     | -0.07            | 0%             | 0    |
| 124.00      | Cysteine/Cystine, PAO Post-col Ninhy | 571      | 0.5725   | 0.0070 | 0.5619        | 0.0533 | 0.0108 | 10     | 0.20             | 1%             | 0    |
| 124.00      | Cysteine/Cystine, PAO Post-col Ninhy | 684      | 0.6065   | 0.0030 | 0.5619        | 0.0533 | 0.0108 | 10     | 0.84             | 4%             | 0    |
| 124.00      | Cysteine/Cystine, PAO Post-col Ninhy | 675      | 0.6150   | 0.0100 | 0.5619        | 0.0533 | 0.0108 | 10     | 1.00             | 5%             | 0    |

| Method Code | Analyte Name and Method              | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|--------------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                      |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 124.00      | Cysteine/Cystine, PAO Post-col Ninhy | 160      | 0.6959   | 0.0367 | 0.5619        | 0.0533 | 0.0108 | 10     | 2.51             | 12%            | 0    |
| 124.02      | Cysteine/Cystine, PAO Post-col OPA   | 227      | 0.5100   | 0.0000 |               |        | 0.0000 | 1      |                  |                |      |
| 124.05      | Cysteine/Cystine, PAO Pre-col AQC E  | 610      | 0.5450   | 0.0100 | 0.5653        | 0.0286 | 0.0305 | 2      | -0.71            | 2%             | 0    |
| 124.05      | Cysteine/Cystine, PAO Pre-col AQC E  | 38       | 0.5855   | 0.0510 | 0.5653        | 0.0286 | 0.0305 | 2      | 0.71             | 2%             | 0    |
| 124.99      | Cysteine/Cystine, Miscellaneous      | 871      | 0.5700   | 0.0200 |               |        | 0.0200 | 1      |                  |                |      |
| 125.00      | Glutamic, Post-col Ninhydrin Der     | 504      | 2.5050   | 0.0300 | 2.6579        | 0.0838 | 0.0246 | 14     | -1.82            | 3%             | 0    |
| 125.00      | Glutamic, Post-col Ninhydrin Der     | 652      | 2.5500   | 0.0000 | 2.6579        | 0.0838 | 0.0246 | 14     | -1.29            | 2%             | 0    |
| 125.00      | Glutamic, Post-col Ninhydrin Der     | 859      | 2.5770   | 0.0400 | 2.6579        | 0.0838 | 0.0246 | 14     | -0.96            | 2%             | 0    |
| 125.00      | Glutamic, Post-col Ninhydrin Der     | 350      | 2.5800   | 0.0200 | 2.6579        | 0.0838 | 0.0246 | 14     | -0.93            | 1%             | 0    |
| 125.00      | Glutamic, Post-col Ninhydrin Der     | 872      | 2.6435   | 0.0250 | 2.6579        | 0.0838 | 0.0246 | 14     | -0.17            | 0%             | 0    |
| 125.00      | Glutamic, Post-col Ninhydrin Der     | 160      | 2.6548   | 0.0671 | 2.6579        | 0.0838 | 0.0246 | 14     | -0.04            | 0%             | 0    |
| 125.00      | Glutamic, Post-col Ninhydrin Der     | 644      | 2.6590   | 0.0100 | 2.6579        | 0.0838 | 0.0246 | 14     | 0.01             | 0%             | 0    |
| 125.00      | Glutamic, Post-col Ninhydrin Der     | 675      | 2.6650   | 0.0100 | 2.6579        | 0.0838 | 0.0246 | 14     | 0.09             | 0%             | 0    |
| 125.00      | Glutamic, Post-col Ninhydrin Der     | 571      | 2.6750   | 0.0100 | 2.6579        | 0.0838 | 0.0246 | 14     | 0.20             | 0%             | 0    |
| 125.00      | Glutamic, Post-col Ninhydrin Der     | 619      | 2.6950   | 0.0300 | 2.6579        | 0.0838 | 0.0246 | 14     | 0.44             | 1%             | 0    |
| 125.00      | Glutamic, Post-col Ninhydrin Der     | 684      | 2.7005   | 0.0350 | 2.6579        | 0.0838 | 0.0246 | 14     | 0.51             | 1%             | 0    |
| 125.00      | Glutamic, Post-col Ninhydrin Der     | 227      | 2.7300   | 0.0200 | 2.6579        | 0.0838 | 0.0246 | 14     | 0.86             | 1%             | 0    |
| 125.00      | Glutamic, Post-col Ninhydrin Der     | 676      | 2.7565   | 0.0270 | 2.6579        | 0.0838 | 0.0246 | 14     | 1.18             | 2%             | 0    |
| 125.00      | Glutamic, Post-col Ninhydrin Der     | 868      | 2.9300   | 0.0200 | 2.6579        | 0.0838 | 0.0246 | 14     | 3.25             | 5%             | 0    |
| 125.05      | Glutamic, Pre-col AQC Der            | 38       | 2.4000   | 0.1200 | 2.5150        | 0.1626 | 0.0600 | 2      | -0.71            | 2%             | 0    |
| 125.05      | Glutamic, Pre-col AQC Der            | 626      | 2.6300   | 0.0000 | 2.5150        | 0.1626 | 0.0600 | 2      | 0.71             | 2%             | 0    |
| 126.00      | Glycine, Post-col Ninhydrin Der      | 350      | 1.1460   | 0.0060 | 1.1800        | 0.0296 | 0.0092 | 13     | -1.15            | 1%             | 0    |
| 126.00      | Glycine, Post-col Ninhydrin Der      | 868      | 1.1500   | 0.0200 | 1.1800        | 0.0296 | 0.0092 | 13     | -1.01            | 1%             | 0    |
| 126.00      | Glycine, Post-col Ninhydrin Der      | 684      | 1.1555   | 0.0130 | 1.1800        | 0.0296 | 0.0092 | 13     | -0.83            | 1%             | 0    |
| 126.00      | Glycine, Post-col Ninhydrin Der      | 652      | 1.1600   | 0.0000 | 1.1800        | 0.0296 | 0.0092 | 13     | -0.68            | 1%             | 0    |
| 126.00      | Glycine, Post-col Ninhydrin Der      | 227      | 1.1650   | 0.0100 | 1.1800        | 0.0296 | 0.0092 | 13     | -0.51            | 1%             | 0    |
| 126.00      | Glycine, Post-col Ninhydrin Der      | 644      | 1.1695   | 0.0110 | 1.1800        | 0.0296 | 0.0092 | 13     | -0.36            | 0%             | 0    |
| 126.00      | Glycine, Post-col Ninhydrin Der      | 619      | 1.1800   | 0.0000 | 1.1800        | 0.0296 | 0.0092 | 13     | 0.00             | 0%             | 0    |
| 126.00      | Glycine, Post-col Ninhydrin Der      | 675      | 1.1800   | 0.0200 | 1.1800        | 0.0296 | 0.0092 | 13     | 0.00             | 0%             | 0    |
| 126.00      | Glycine, Post-col Ninhydrin Der      | 859      | 1.1850   | 0.0140 | 1.1800        | 0.0296 | 0.0092 | 13     | 0.17             | 0%             | 0    |
| 126.00      | Glycine, Post-col Ninhydrin Der      | 504      | 1.2000   | 0.0000 | 1.1800        | 0.0296 | 0.0092 | 13     | 0.67             | 1%             | 0    |
| 126.00      | Glycine, Post-col Ninhydrin Der      | 872      | 1.2005   | 0.0150 | 1.1800        | 0.0296 | 0.0092 | 13     | 0.69             | 1%             | 0    |
| 126.00      | Glycine, Post-col Ninhydrin Der      | 571      | 1.2250   | 0.0100 | 1.1800        | 0.0296 | 0.0092 | 13     | 1.52             | 2%             | 0    |
| 126.00      | Glycine, Post-col Ninhydrin Der      | 676      | 1.2430   | 0.0000 | 1.1800        | 0.0296 | 0.0092 | 13     | 2.12             | 3%             | 0    |
| 126.00      | Glycine, Post-col Ninhydrin Der      | 160      | 1.1577   | 0.0460 | 1.1800        | 0.0296 | 0.0092 | 13     | -0.75            | 1%             | 1    |
| 126.05      | Glycine, Pre-col AQC Der             | 38       | 1.1400   | 0.0600 | 1.1825        | 0.0601 | 0.0450 | 2      | -0.71            | 2%             | 0    |
| 126.05      | Glycine, Pre-col AQC Der             | 626      | 1.2250   | 0.0300 | 1.1825        | 0.0601 | 0.0450 | 2      | 0.71             | 2%             | 0    |
| 126.99      | Glycine, Miscellaneous               | 871      | 2.4850   | 0.0100 |               |        | 0.0100 | 1      |                  |                |      |
| 127.00      | Histidine, Post-col Ninhydrin Der    | 350      | 0.3765   | 0.0010 | 0.4013        | 0.0203 | 0.0054 | 12     | -1.22            | 3%             | 0    |
| 127.00      | Histidine, Post-col Ninhydrin Der    | 684      | 0.3805   | 0.0090 | 0.4013        | 0.0203 | 0.0054 | 12     | -1.02            | 3%             | 0    |
| 127.00      | Histidine, Post-col Ninhydrin Der    | 859      | 0.3860   | 0.0040 | 0.4013        | 0.0203 | 0.0054 | 12     | -0.75            | 2%             | 0    |
| 127.00      | Histidine, Post-col Ninhydrin Der    | 868      | 0.3885   | 0.0010 | 0.4013        | 0.0203 | 0.0054 | 12     | -0.63            | 2%             | 0    |

| Method Code | Analyte Name and Method            | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|------------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                    |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 127.00      | Histidine, Post-col Ninhydrin Der  | 227      | 0.3900   | 0.0200 | 0.4013        | 0.0203 | 0.0054 | 12     | -0.56            | 1%             | 0    |
| 127.00      | Histidine, Post-col Ninhydrin Der  | 504      | 0.4000   | 0.0000 | 0.4013        | 0.0203 | 0.0054 | 12     | -0.06            | 0%             | 0    |
| 127.00      | Histidine, Post-col Ninhydrin Der  | 619      | 0.4015   | 0.0050 | 0.4013        | 0.0203 | 0.0054 | 12     | 0.01             | 0%             | 0    |
| 127.00      | Histidine, Post-col Ninhydrin Der  | 644      | 0.4075   | 0.0030 | 0.4013        | 0.0203 | 0.0054 | 12     | 0.30             | 1%             | 0    |
| 127.00      | Histidine, Post-col Ninhydrin Der  | 652      | 0.4100   | 0.0000 | 0.4013        | 0.0203 | 0.0054 | 12     | 0.43             | 1%             | 0    |
| 127.00      | Histidine, Post-col Ninhydrin Der  | 675      | 0.4150   | 0.0100 | 0.4013        | 0.0203 | 0.0054 | 12     | 0.67             | 2%             | 0    |
| 127.00      | Histidine, Post-col Ninhydrin Der  | 872      | 0.4300   | 0.0080 | 0.4013        | 0.0203 | 0.0054 | 12     | 1.41             | 4%             | 0    |
| 127.00      | Histidine, Post-col Ninhydrin Der  | 571      | 0.4360   | 0.0040 | 0.4013        | 0.0203 | 0.0054 | 12     | 1.71             | 4%             | 0    |
| 127.00      | Histidine, Post-col Ninhydrin Der  | 160      | 0.5343   | 0.1393 | 0.4013        | 0.0203 | 0.0054 | 12     | 6.54             | 17%            | 1    |
| 127.05      | Histidine, Pre-col AQC Der         | 38       | 0.3580   | 0.0500 | 0.3890        | 0.0438 | 0.0350 | 2      | -0.71            | 4%             | 0    |
| 127.05      | Histidine, Pre-col AQC Der         | 626      | 0.4200   | 0.0200 | 0.3890        | 0.0438 | 0.0350 | 2      | 0.71             | 4%             | 0    |
| 127.99      | Histidine, Miscellaneous           | 871      | 0.9200   | 0.0600 |               |        | 0.0600 | 1      |                  |                |      |
| 128.00      | Isoleucine, Post-col Ninhydrin Der | 675      | 0.6750   | 0.0100 | 0.7770        | 0.0347 | 0.0134 | 13     | -2.94            | 7%             | 0    |
| 128.00      | Isoleucine, Post-col Ninhydrin Der | 350      | 0.7280   | 0.0060 | 0.7770        | 0.0347 | 0.0134 | 13     | -1.41            | 3%             | 0    |
| 128.00      | Isoleucine, Post-col Ninhydrin Der | 684      | 0.7565   | 0.0770 | 0.7770        | 0.0347 | 0.0134 | 13     | -0.59            | 1%             | 0    |
| 128.00      | Isoleucine, Post-col Ninhydrin Der | 652      | 0.7600   | 0.0000 | 0.7770        | 0.0347 | 0.0134 | 13     | -0.49            | 1%             | 0    |
| 128.00      | Isoleucine, Post-col Ninhydrin Der | 859      | 0.7615   | 0.0070 | 0.7770        | 0.0347 | 0.0134 | 13     | -0.45            | 1%             | 0    |
| 128.00      | Isoleucine, Post-col Ninhydrin Der | 227      | 0.7700   | 0.0000 | 0.7770        | 0.0347 | 0.0134 | 13     | -0.20            | 0%             | 0    |
| 128.00      | Isoleucine, Post-col Ninhydrin Der | 868      | 0.7700   | 0.0060 | 0.7770        | 0.0347 | 0.0134 | 13     | -0.20            | 0%             | 0    |
| 128.00      | Isoleucine, Post-col Ninhydrin Der | 644      | 0.7950   | 0.0060 | 0.7770        | 0.0347 | 0.0134 | 13     | 0.52             | 1%             | 0    |
| 128.00      | Isoleucine, Post-col Ninhydrin Der | 571      | 0.7990   | 0.0080 | 0.7770        | 0.0347 | 0.0134 | 13     | 0.63             | 1%             | 0    |
| 128.00      | Isoleucine, Post-col Ninhydrin Der | 619      | 0.8010   | 0.0220 | 0.7770        | 0.0347 | 0.0134 | 13     | 0.69             | 2%             | 0    |
| 128.00      | Isoleucine, Post-col Ninhydrin Der | 504      | 0.8050   | 0.0100 | 0.7770        | 0.0347 | 0.0134 | 13     | 0.81             | 2%             | 0    |
| 128.00      | Isoleucine, Post-col Ninhydrin Der | 676      | 0.8125   | 0.0090 | 0.7770        | 0.0347 | 0.0134 | 13     | 1.02             | 2%             | 0    |
| 128.00      | Isoleucine, Post-col Ninhydrin Der | 872      | 0.8175   | 0.0130 | 0.7770        | 0.0347 | 0.0134 | 13     | 1.17             | 3%             | 0    |
| 128.00      | Isoleucine, Post-col Ninhydrin Der | 160      | 0.9845   | 0.2790 | 0.7770        | 0.0347 | 0.0134 | 13     | 5.98             | 13%            | 1    |
| 128.05      | Isoleucine, Pre-col AQC Der        | 38       | 0.6695   | 0.0430 | 0.7548        | 0.1206 | 0.0215 | 2      | -0.71            | 6%             | 0    |
| 128.05      | Isoleucine, Pre-col AQC Der        | 626      | 0.8400   | 0.0000 | 0.7548        | 0.1206 | 0.0215 | 2      | 0.71             | 6%             | 0    |
| 128.99      | Isoleucine, Miscellaneous          | 871      | 1.7850   | 0.0100 |               |        | 0.0100 | 1      |                  |                |      |
| 129.00      | Leucine, Post-col Ninhydrin Der    | 675      | 1.4750   | 0.0100 | 1.5353        | 0.0541 | 0.0092 | 13     | -1.11            | 2%             | 0    |
| 129.00      | Leucine, Post-col Ninhydrin Der    | 652      | 1.4800   | 0.0000 | 1.5353        | 0.0541 | 0.0092 | 13     | -1.02            | 2%             | 0    |
| 129.00      | Leucine, Post-col Ninhydrin Der    | 868      | 1.4800   | 0.0000 | 1.5353        | 0.0541 | 0.0092 | 13     | -1.02            | 2%             | 0    |
| 129.00      | Leucine, Post-col Ninhydrin Der    | 350      | 1.4805   | 0.0170 | 1.5353        | 0.0541 | 0.0092 | 13     | -1.01            | 2%             | 0    |
| 129.00      | Leucine, Post-col Ninhydrin Der    | 859      | 1.5085   | 0.0210 | 1.5353        | 0.0541 | 0.0092 | 13     | -0.49            | 1%             | 0    |
| 129.00      | Leucine, Post-col Ninhydrin Der    | 872      | 1.5240   | 0.0000 | 1.5353        | 0.0541 | 0.0092 | 13     | -0.21            | 0%             | 0    |
| 129.00      | Leucine, Post-col Ninhydrin Der    | 619      | 1.5350   | 0.0100 | 1.5353        | 0.0541 | 0.0092 | 13     | 0.00             | 0%             | 0    |
| 129.00      | Leucine, Post-col Ninhydrin Der    | 644      | 1.5645   | 0.0150 | 1.5353        | 0.0541 | 0.0092 | 13     | 0.54             | 1%             | 0    |
| 129.00      | Leucine, Post-col Ninhydrin Der    | 684      | 1.5645   | 0.0210 | 1.5353        | 0.0541 | 0.0092 | 13     | 0.54             | 1%             | 0    |
| 129.00      | Leucine, Post-col Ninhydrin Der    | 571      | 1.5650   | 0.0100 | 1.5353        | 0.0541 | 0.0092 | 13     | 0.55             | 1%             | 0    |
| 129.00      | Leucine, Post-col Ninhydrin Der    | 504      | 1.5750   | 0.0100 | 1.5353        | 0.0541 | 0.0092 | 13     | 0.73             | 1%             | 0    |
| 129.00      | Leucine, Post-col Ninhydrin Der    | 227      | 1.5900   | 0.0000 | 1.5353        | 0.0541 | 0.0092 | 13     | 1.01             | 2%             | 0    |
| 129.00      | Leucine, Post-col Ninhydrin Der    | 676      | 1.6445   | 0.0050 | 1.5353        | 0.0541 | 0.0092 | 13     | 2.02             | 4%             | 0    |

| Method Code | Analyte Name and Method               | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|---------------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                       |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 129.00      | Leucine, Post-col Ninhydrin Der       | 160      | 1.7328   | 0.1798 | 1.5353        | 0.0541 | 0.0092 | 13     | <b>3.65</b>      | 6%             | 1    |
| 129.05      | Leucine, Pre-col AQC Der              | 38       | 1.4300   | 0.0600 | 1.4975        | 0.0955 | 0.0350 | 2      | <b>-0.71</b>     | 2%             | 0    |
| 129.05      | Leucine, Pre-col AQC Der              | 626      | 1.5650   | 0.0100 | 1.4975        | 0.0955 | 0.0350 | 2      | <b>0.71</b>      | 2%             | 0    |
| 129.99      | Leucine, Miscellaneous                | 871      | 3.2500   | 0.0200 |               |        | 0.0200 | 1      |                  |                |      |
| 130.00      | L-Lysine, Post-col Ninhydrin Der      | 684      | 0.6690   | 0.0220 | 0.7670        | 0.0219 | 0.0128 | 14     | <b>-4.48</b>     | 6%             | 0    |
| 130.00      | L-Lysine, Post-col Ninhydrin Der      | 676      | 0.7070   | 0.0320 | 0.7670        | 0.0219 | 0.0128 | 14     | <b>-2.74</b>     | 4%             | 0    |
| 130.00      | L-Lysine, Post-col Ninhydrin Der      | 227      | 0.7250   | 0.0300 | 0.7670        | 0.0219 | 0.0128 | 14     | <b>-1.92</b>     | 3%             | 0    |
| 130.00      | L-Lysine, Post-col Ninhydrin Der      | 652      | 0.7400   | 0.0200 | 0.7670        | 0.0219 | 0.0128 | 14     | <b>-1.23</b>     | 2%             | 0    |
| 130.00      | L-Lysine, Post-col Ninhydrin Der      | 675      | 0.7450   | 0.0100 | 0.7670        | 0.0219 | 0.0128 | 14     | <b>-1.00</b>     | 1%             | 0    |
| 130.00      | L-Lysine, Post-col Ninhydrin Der      | 859      | 0.7570   | 0.0080 | 0.7670        | 0.0219 | 0.0128 | 14     | <b>-0.46</b>     | 1%             | 0    |
| 130.00      | L-Lysine, Post-col Ninhydrin Der      | 350      | 0.7740   | 0.0120 | 0.7670        | 0.0219 | 0.0128 | 14     | <b>0.32</b>      | 0%             | 0    |
| 130.00      | L-Lysine, Post-col Ninhydrin Der      | 571      | 0.7765   | 0.0150 | 0.7670        | 0.0219 | 0.0128 | 14     | <b>0.44</b>      | 1%             | 0    |
| 130.00      | L-Lysine, Post-col Ninhydrin Der      | 619      | 0.7765   | 0.0010 | 0.7670        | 0.0219 | 0.0128 | 14     | <b>0.44</b>      | 1%             | 0    |
| 130.00      | L-Lysine, Post-col Ninhydrin Der      | 868      | 0.7820   | 0.0020 | 0.7670        | 0.0219 | 0.0128 | 14     | <b>0.69</b>      | 1%             | 0    |
| 130.00      | L-Lysine, Post-col Ninhydrin Der      | 872      | 0.7850   | 0.0100 | 0.7670        | 0.0219 | 0.0128 | 14     | <b>0.83</b>      | 1%             | 0    |
| 130.00      | L-Lysine, Post-col Ninhydrin Der      | 160      | 0.7865   | 0.0146 | 0.7670        | 0.0219 | 0.0128 | 14     | <b>0.89</b>      | 1%             | 0    |
| 130.00      | L-Lysine, Post-col Ninhydrin Der      | 644      | 0.7885   | 0.0030 | 0.7670        | 0.0219 | 0.0128 | 14     | <b>0.99</b>      | 1%             | 0    |
| 130.00      | L-Lysine, Post-col Ninhydrin Der      | 504      | 0.7900   | 0.0000 | 0.7670        | 0.0219 | 0.0128 | 14     | <b>1.05</b>      | 2%             | 0    |
| 130.05      | L-Lysine, Pre-col AQC Der             | 38       | 0.6600   | 0.0240 | 0.7317        | 0.0633 | 0.0113 | 3      | <b>-1.13</b>     | 5%             | 0    |
| 130.05      | L-Lysine, Pre-col AQC Der             | 610      | 0.7550   | 0.0100 | 0.7317        | 0.0633 | 0.0113 | 3      | <b>0.37</b>      | 2%             | 0    |
| 130.05      | L-Lysine, Pre-col AQC Der             | 626      | 0.7800   | 0.0000 | 0.7317        | 0.0633 | 0.0113 | 3      | <b>0.76</b>      | 3%             | 0    |
| 130.99      | L-Lysine, Miscellaneous               | 871      | 1.8450   | 0.0700 |               |        | 0.0700 | 1      |                  |                |      |
| 131.00      | Methionine, PAO Post-col Ninhydrin D  | 675      | 0.1850   | 0.0100 | 0.2195        | 0.0146 | 0.0056 | 12     | <b>-2.37</b>     | 8%             | 0    |
| 131.00      | Methionine, PAO Post-col Ninhydrin D  | 859      | 0.2040   | 0.0020 | 0.2195        | 0.0146 | 0.0056 | 12     | <b>-1.06</b>     | 4%             | 0    |
| 131.00      | Methionine, PAO Post-col Ninhydrin D  | 504      | 0.2100   | 0.0000 | 0.2195        | 0.0146 | 0.0056 | 12     | <b>-0.65</b>     | 2%             | 0    |
| 131.00      | Methionine, PAO Post-col Ninhydrin D  | 350      | 0.2115   | 0.0010 | 0.2195        | 0.0146 | 0.0056 | 12     | <b>-0.55</b>     | 2%             | 0    |
| 131.00      | Methionine, PAO Post-col Ninhydrin D  | 652      | 0.2150   | 0.0100 | 0.2195        | 0.0146 | 0.0056 | 12     | <b>-0.31</b>     | 1%             | 0    |
| 131.00      | Methionine, PAO Post-col Ninhydrin D  | 684      | 0.2155   | 0.0030 | 0.2195        | 0.0146 | 0.0056 | 12     | <b>-0.27</b>     | 1%             | 0    |
| 131.00      | Methionine, PAO Post-col Ninhydrin D  | 571      | 0.2205   | 0.0050 | 0.2195        | 0.0146 | 0.0056 | 12     | <b>0.07</b>      | 0%             | 0    |
| 131.00      | Methionine, PAO Post-col Ninhydrin D  | 160      | 0.2247   | 0.0077 | 0.2195        | 0.0146 | 0.0056 | 12     | <b>0.35</b>      | 1%             | 0    |
| 131.00      | Methionine, PAO Post-col Ninhydrin D  | 619      | 0.2300   | 0.0060 | 0.2195        | 0.0146 | 0.0056 | 12     | <b>0.72</b>      | 2%             | 0    |
| 131.00      | Methionine, PAO Post-col Ninhydrin D  | 872      | 0.2310   | 0.0080 | 0.2195        | 0.0146 | 0.0056 | 12     | <b>0.79</b>      | 3%             | 0    |
| 131.00      | Methionine, PAO Post-col Ninhydrin D  | 644      | 0.2340   | 0.0000 | 0.2195        | 0.0146 | 0.0056 | 12     | <b>0.99</b>      | 3%             | 0    |
| 131.00      | Methionine, PAO Post-col Ninhydrin D  | 676      | 0.2440   | 0.0140 | 0.2195        | 0.0146 | 0.0056 | 12     | <b>1.68</b>      | 6%             | 0    |
| 131.02      | Methionine, PAO Post-col OPA Der      | 227      | 0.2100   | 0.0000 |               |        | 0.0000 | 1      |                  |                |      |
| 131.05      | Methionine, PAO Pre-col AQC Der       | 38       | 0.2125   | 0.0410 | 0.2358        | 0.0267 | 0.0237 | 3      | <b>-0.87</b>     | 5%             | 0    |
| 131.05      | Methionine, PAO Pre-col AQC Der       | 610      | 0.2300   | 0.0000 | 0.2358        | 0.0267 | 0.0237 | 3      | <b>-0.22</b>     | 1%             | 0    |
| 131.05      | Methionine, PAO Pre-col AQC Der       | 626      | 0.2650   | 0.0300 | 0.2358        | 0.0267 | 0.0237 | 3      | <b>1.09</b>      | 6%             | 0    |
| 131.99      | Methionine, Miscellaneous             | 871      | 0.5600   | 0.0200 |               |        | 0.0200 | 1      |                  |                |      |
| 132.00      | Phenylalanine, Post-col Ninhydrin Der | 868      | 0.7785   | 0.0050 | 0.8347        | 0.0338 | 0.0069 | 13     | <b>-1.66</b>     | 3%             | 0    |
| 132.00      | Phenylalanine, Post-col Ninhydrin Der | 684      | 0.7800   | 0.0140 | 0.8347        | 0.0338 | 0.0069 | 13     | <b>-1.62</b>     | 3%             | 0    |
| 132.00      | Phenylalanine, Post-col Ninhydrin Der | 675      | 0.8050   | 0.0100 | 0.8347        | 0.0338 | 0.0069 | 13     | <b>-0.88</b>     | 2%             | 0    |

| Method Code | Analyte Name and Method               | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|---------------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                       |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 132.00      | Phenylalanine, Post-col Ninhydrin Der | 350      | 0.8150   | 0.0080 | 0.8347        | 0.0338 | 0.0069 | 13     | -0.58            | 1%             | 0    |
| 132.00      | Phenylalanine, Post-col Ninhydrin Der | 652      | 0.8200   | 0.0000 | 0.8347        | 0.0338 | 0.0069 | 13     | -0.43            | 1%             | 0    |
| 132.00      | Phenylalanine, Post-col Ninhydrin Der | 227      | 0.8300   | 0.0200 | 0.8347        | 0.0338 | 0.0069 | 13     | -0.14            | 0%             | 0    |
| 132.00      | Phenylalanine, Post-col Ninhydrin Der | 571      | 0.8360   | 0.0020 | 0.8347        | 0.0338 | 0.0069 | 13     | 0.04             | 0%             | 0    |
| 132.00      | Phenylalanine, Post-col Ninhydrin Der | 859      | 0.8495   | 0.0130 | 0.8347        | 0.0338 | 0.0069 | 13     | 0.44             | 1%             | 0    |
| 132.00      | Phenylalanine, Post-col Ninhydrin Der | 504      | 0.8500   | 0.0000 | 0.8347        | 0.0338 | 0.0069 | 13     | 0.45             | 1%             | 0    |
| 132.00      | Phenylalanine, Post-col Ninhydrin Der | 872      | 0.8525   | 0.0070 | 0.8347        | 0.0338 | 0.0069 | 13     | 0.53             | 1%             | 0    |
| 132.00      | Phenylalanine, Post-col Ninhydrin Der | 644      | 0.8615   | 0.0010 | 0.8347        | 0.0338 | 0.0069 | 13     | 0.79             | 2%             | 0    |
| 132.00      | Phenylalanine, Post-col Ninhydrin Der | 676      | 0.8700   | 0.0100 | 0.8347        | 0.0338 | 0.0069 | 13     | 1.04             | 2%             | 0    |
| 132.00      | Phenylalanine, Post-col Ninhydrin Der | 619      | 0.9490   | 0.0000 | 0.8347        | 0.0338 | 0.0069 | 13     | 3.38             | 7%             | 0    |
| 132.00      | Phenylalanine, Post-col Ninhydrin Der | 160      | 1.0919   | 0.0896 | 0.8347        | 0.0338 | 0.0069 | 13     | 7.61             | 15%            | 1    |
| 132.05      | Phenylalanine, Pre-col AQC Der        | 38       | 0.5770   | 0.3920 | 0.7560        | 0.2531 | 0.2010 | 2      | -0.71            | 12%            | 0    |
| 132.05      | Phenylalanine, Pre-col AQC Der        | 626      | 0.9350   | 0.0100 | 0.7560        | 0.2531 | 0.2010 | 2      | 0.71             | 12%            | 0    |
| 132.99      | Phenylalanine, Miscellaneous          | 871      | 1.7150   | 0.0700 |               |        | 0.0700 | 1      |                  |                |      |
| 133.00      | Proline, Post-col Ninhydrin Der       | 868      | 1.4950   | 0.0500 | 1.5763        | 0.0637 | 0.0316 | 12     | -1.28            | 3%             | 0    |
| 133.00      | Proline, Post-col Ninhydrin Der       | 350      | 1.5145   | 0.0110 | 1.5763        | 0.0637 | 0.0316 | 12     | -0.97            | 2%             | 0    |
| 133.00      | Proline, Post-col Ninhydrin Der       | 684      | 1.5295   | 0.0010 | 1.5763        | 0.0637 | 0.0316 | 12     | -0.73            | 1%             | 0    |
| 133.00      | Proline, Post-col Ninhydrin Der       | 504      | 1.5300   | 0.0200 | 1.5763        | 0.0637 | 0.0316 | 12     | -0.73            | 1%             | 0    |
| 133.00      | Proline, Post-col Ninhydrin Der       | 227      | 1.5550   | 0.0700 | 1.5763        | 0.0637 | 0.0316 | 12     | -0.33            | 1%             | 0    |
| 133.00      | Proline, Post-col Ninhydrin Der       | 675      | 1.5650   | 0.0100 | 1.5763        | 0.0637 | 0.0316 | 12     | -0.18            | 0%             | 0    |
| 133.00      | Proline, Post-col Ninhydrin Der       | 619      | 1.5750   | 0.0700 | 1.5763        | 0.0637 | 0.0316 | 12     | -0.02            | 0%             | 0    |
| 133.00      | Proline, Post-col Ninhydrin Der       | 652      | 1.5850   | 0.0500 | 1.5763        | 0.0637 | 0.0316 | 12     | 0.14             | 0%             | 0    |
| 133.00      | Proline, Post-col Ninhydrin Der       | 872      | 1.6150   | 0.0120 | 1.5763        | 0.0637 | 0.0316 | 12     | 0.61             | 1%             | 0    |
| 133.00      | Proline, Post-col Ninhydrin Der       | 644      | 1.6210   | 0.0040 | 1.5763        | 0.0637 | 0.0316 | 12     | 0.70             | 1%             | 0    |
| 133.00      | Proline, Post-col Ninhydrin Der       | 571      | 1.6750   | 0.0500 | 1.5763        | 0.0637 | 0.0316 | 12     | 1.55             | 3%             | 0    |
| 133.00      | Proline, Post-col Ninhydrin Der       | 160      | 1.7887   | 0.0317 | 1.5763        | 0.0637 | 0.0316 | 12     | 3.34             | 7%             | 0    |
| 133.05      | Proline, Pre-col AQC Der              | 38       | 1.4450   | 0.1100 | 1.6925        | 0.3500 | 0.0650 | 2      | -0.71            | 7%             | 0    |
| 133.05      | Proline, Pre-col AQC Der              | 626      | 1.9400   | 0.0200 | 1.6925        | 0.3500 | 0.0650 | 2      | 0.71             | 7%             | 0    |
| 133.99      | Proline, Miscellaneous                | 871      | 3.1700   | 0.0800 |               |        | 0.0800 | 1      |                  |                |      |
| 134.00      | Serine, Post-col Ninhydrin Der        | 160      | 1.1927   | 0.0722 | 1.3071        | 0.0643 | 0.0294 | 14     | -1.78            | 4%             | 0    |
| 134.00      | Serine, Post-col Ninhydrin Der        | 652      | 1.2450   | 0.0300 | 1.3071        | 0.0643 | 0.0294 | 14     | -0.97            | 2%             | 0    |
| 134.00      | Serine, Post-col Ninhydrin Der        | 868      | 1.2450   | 0.0100 | 1.3071        | 0.0643 | 0.0294 | 14     | -0.97            | 2%             | 0    |
| 134.00      | Serine, Post-col Ninhydrin Der        | 644      | 1.2530   | 0.0060 | 1.3071        | 0.0643 | 0.0294 | 14     | -0.84            | 2%             | 0    |
| 134.00      | Serine, Post-col Ninhydrin Der        | 504      | 1.2650   | 0.0100 | 1.3071        | 0.0643 | 0.0294 | 14     | -0.65            | 2%             | 0    |
| 134.00      | Serine, Post-col Ninhydrin Der        | 872      | 1.2965   | 0.0410 | 1.3071        | 0.0643 | 0.0294 | 14     | -0.16            | 0%             | 0    |
| 134.00      | Serine, Post-col Ninhydrin Der        | 859      | 1.3135   | 0.0190 | 1.3071        | 0.0643 | 0.0294 | 14     | 0.10             | 0%             | 0    |
| 134.00      | Serine, Post-col Ninhydrin Der        | 684      | 1.3220   | 0.0760 | 1.3071        | 0.0643 | 0.0294 | 14     | 0.23             | 1%             | 0    |
| 134.00      | Serine, Post-col Ninhydrin Der        | 350      | 1.3300   | 0.0080 | 1.3071        | 0.0643 | 0.0294 | 14     | 0.36             | 1%             | 0    |
| 134.00      | Serine, Post-col Ninhydrin Der        | 619      | 1.3350   | 0.0500 | 1.3071        | 0.0643 | 0.0294 | 14     | 0.43             | 1%             | 0    |
| 134.00      | Serine, Post-col Ninhydrin Der        | 571      | 1.3400   | 0.0200 | 1.3071        | 0.0643 | 0.0294 | 14     | 0.51             | 1%             | 0    |
| 134.00      | Serine, Post-col Ninhydrin Der        | 675      | 1.3650   | 0.0100 | 1.3071        | 0.0643 | 0.0294 | 14     | 0.90             | 2%             | 0    |
| 134.00      | Serine, Post-col Ninhydrin Der        | 227      | 1.3750   | 0.0500 | 1.3071        | 0.0643 | 0.0294 | 14     | 1.06             | 3%             | 0    |

| Method Code | Analyte Name and Method                        | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|--|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |  |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 134.00      | Serine, Post-col Ninhydrin Der                 | 676      | 1.4240   | 0.0100 | 1.3071        | 0.0643 | 0.0294 | 14     | 1.82             | 4%             | 0    |
| 134.05      | Serine, Pre-col AQC Der                        | 38       | 1.4250   | 0.0700 | 1.4275        | 0.0035 | 0.0750 | 2      | -0.71            | 0%             | 0    |
| 134.05      | Serine, Pre-col AQC Der                        | 626      | 1.4300   | 0.0800 | 1.4275        | 0.0035 | 0.0750 | 2      | 0.71             | 0%             | 0    |
| 134.99      | Serine, Miscellaneous                          | 871      | 2.8550   | 0.0100 |               |        | 0.0100 | 1      |                  |                |      |
| 135.00      | Threonine, Post-col Ninhydrin Der              | 160      | 0.9806   | 0.0019 | 1.0431        | 0.0207 | 0.0110 | 14     | -3.03            | 3%             | 0    |
| 135.00      | Threonine, Post-col Ninhydrin Der              | 675      | 1.0100   | 0.0000 | 1.0431        | 0.0207 | 0.0110 | 14     | -1.60            | 2%             | 0    |
| 135.00      | Threonine, Post-col Ninhydrin Der              | 868      | 1.0150   | 0.0100 | 1.0431        | 0.0207 | 0.0110 | 14     | -1.36            | 1%             | 0    |
| 135.00      | Threonine, Post-col Ninhydrin Der              | 350      | 1.0290   | 0.0000 | 1.0431        | 0.0207 | 0.0110 | 14     | -0.68            | 1%             | 0    |
| 135.00      | Threonine, Post-col Ninhydrin Der              | 619      | 1.0400   | 0.0200 | 1.0431        | 0.0207 | 0.0110 | 14     | -0.15            | 0%             | 0    |
| 135.00      | Threonine, Post-col Ninhydrin Der              | 652      | 1.0400   | 0.0200 | 1.0431        | 0.0207 | 0.0110 | 14     | -0.15            | 0%             | 0    |
| 135.00      | Threonine, Post-col Ninhydrin Der              | 859      | 1.0410   | 0.0100 | 1.0431        | 0.0207 | 0.0110 | 14     | -0.10            | 0%             | 0    |
| 135.00      | Threonine, Post-col Ninhydrin Der              | 872      | 1.0455   | 0.0090 | 1.0431        | 0.0207 | 0.0110 | 14     | 0.12             | 0%             | 0    |
| 135.00      | Threonine, Post-col Ninhydrin Der              | 644      | 1.0530   | 0.0060 | 1.0431        | 0.0207 | 0.0110 | 14     | 0.48             | 0%             | 0    |
| 135.00      | Threonine, Post-col Ninhydrin Der              | 504      | 1.0550   | 0.0100 | 1.0431        | 0.0207 | 0.0110 | 14     | 0.58             | 1%             | 0    |
| 135.00      | Threonine, Post-col Ninhydrin Der              | 571      | 1.0550   | 0.0100 | 1.0431        | 0.0207 | 0.0110 | 14     | 0.58             | 1%             | 0    |
| 135.00      | Threonine, Post-col Ninhydrin Der              | 684      | 1.0555   | 0.0250 | 1.0431        | 0.0207 | 0.0110 | 14     | 0.60             | 1%             | 0    |
| 135.00      | Threonine, Post-col Ninhydrin Der              | 227      | 1.0750   | 0.0300 | 1.0431        | 0.0207 | 0.0110 | 14     | 1.54             | 2%             | 0    |
| 135.00      | Threonine, Post-col Ninhydrin Der              | 676      | 1.1190   | 0.0020 | 1.0431        | 0.0207 | 0.0110 | 14     | 3.67             | 4%             | 0    |
| 135.05      | Threonine, Pre-col AQC Der                     | 38       | 1.0170   | 0.1060 | 1.0507        | 0.0301 | 0.0587 | 3      | -1.12            | 2%             | 0    |
| 135.05      | Threonine, Pre-col AQC Der                     | 610      | 1.0600   | 0.0000 | 1.0507        | 0.0301 | 0.0587 | 3      | 0.31             | 0%             | 0    |
| 135.05      | Threonine, Pre-col AQC Der                     | 626      | 1.0750   | 0.0700 | 1.0507        | 0.0301 | 0.0587 | 3      | 0.81             | 1%             | 0    |
| 135.99      | Threonine, Miscellaneous                       | 871      | 2.5950   | 0.0500 |               |        | 0.0500 | 1      |                  |                |      |
| 136.00      | Tryptophan, Alka-Hydrol Post-col Ninhydrin Der | 684      | 0.1830   | 0.0060 |               |        | 0.0060 | 1      |                  |                |      |
| 136.01      | Tryptophan, Alka-Hydrol Rev Phase L            | 868      | 0.1495   | 0.0050 | 0.1701        | 0.0121 | 0.0026 | 5      | -1.70            | 6%             | 0    |
| 136.01      | Tryptophan, Alka-Hydrol Rev Phase L            | 227      | 0.1700   | 0.0000 | 0.1701        | 0.0121 | 0.0026 | 5      | -0.01            | 0%             | 0    |
| 136.01      | Tryptophan, Alka-Hydrol Rev Phase L            | 571      | 0.1735   | 0.0030 | 0.1701        | 0.0121 | 0.0026 | 5      | 0.28             | 1%             | 0    |
| 136.01      | Tryptophan, Alka-Hydrol Rev Phase L            | 644      | 0.1785   | 0.0030 | 0.1701        | 0.0121 | 0.0026 | 5      | 0.69             | 2%             | 0    |
| 136.01      | Tryptophan, Alka-Hydrol Rev Phase L            | 619      | 0.1790   | 0.0020 | 0.1701        | 0.0121 | 0.0026 | 5      | 0.74             | 3%             | 0    |
| 136.01      | Tryptophan, Alka-Hydrol Rev Phase L            | 160      | 0.1565   | 0.0228 | 0.1701        | 0.0121 | 0.0026 | 5      | -1.12            | 4%             | 1    |
| 136.03      | Tryptophan, Alka-Hydrol + IS RP LC F           | 859      | 0.1760   | 0.0000 |               |        | 0.0000 | 1      |                  |                |      |
| 136.99      | Tryptophan, Miscellaneous                      | 38       | 0.1460   | 0.0420 | 0.2324        | 0.1227 | 0.0163 | 4      | -0.70            | 19%            | 0    |
| 136.99      | Tryptophan, Miscellaneous                      | 504      | 0.1550   | 0.0100 | 0.2324        | 0.1227 | 0.0163 | 4      | -0.63            | 17%            | 0    |
| 136.99      | Tryptophan, Miscellaneous                      | 610      | 0.2185   | 0.0130 | 0.2324        | 0.1227 | 0.0163 | 4      | -0.11            | 3%             | 0    |
| 136.99      | Tryptophan, Miscellaneous                      | 871      | 0.4100   | 0.0000 | 0.2324        | 0.1227 | 0.0163 | 4      | 1.45             | 38%            | 0    |
| 137.00      | Tyrosine, Post-col Ninhydrin Der               | 227      | 0.5500   | 0.0200 | 0.5757        | 0.0196 | 0.0105 | 8      | -1.31            | 2%             | 0    |
| 137.00      | Tyrosine, Post-col Ninhydrin Der               | 504      | 0.5650   | 0.0100 | 0.5757        | 0.0196 | 0.0105 | 8      | -0.55            | 1%             | 0    |
| 137.00      | Tyrosine, Post-col Ninhydrin Der               | 675      | 0.5650   | 0.0100 | 0.5757        | 0.0196 | 0.0105 | 8      | -0.55            | 1%             | 0    |
| 137.00      | Tyrosine, Post-col Ninhydrin Der               | 684      | 0.5675   | 0.0250 | 0.5757        | 0.0196 | 0.0105 | 8      | -0.42            | 1%             | 0    |
| 137.00      | Tyrosine, Post-col Ninhydrin Der               | 868      | 0.5740   | 0.0100 | 0.5757        | 0.0196 | 0.0105 | 8      | -0.09            | 0%             | 0    |
| 137.00      | Tyrosine, Post-col Ninhydrin Der               | 644      | 0.5890   | 0.0000 | 0.5757        | 0.0196 | 0.0105 | 8      | 0.68             | 1%             | 0    |
| 137.00      | Tyrosine, Post-col Ninhydrin Der               | 676      | 0.6190   | 0.0000 | 0.5757        | 0.0196 | 0.0105 | 8      | 2.22             | 4%             | 0    |
| 137.00      | Tyrosine, Post-col Ninhydrin Der               | 872      | 0.6455   | 0.0090 | 0.5757        | 0.0196 | 0.0105 | 8      | 3.57             | 6%             | 0    |

| Method Code | Analyte Name and Method          | Lab Code | Lab Data |        | Method Values |        |        |        | AAFCO CS Z Score | Threshold %RSD | Flag |
|-------------|----------------------------------|----------|----------|--------|---------------|--------|--------|--------|------------------|----------------|------|
|             |                                  |          | Value    | range  | Rob Mean      | Rob SD | R-bar  | # Labs |                  |                |      |
| 137.00      | Tyrosine, Post-col Ninhydrin Der | 160      | 0.9384   | 0.1369 | 0.5757        | 0.0196 | 0.0105 | 8      | <b>18.54</b>     | 32%            | 1    |
| 137.05      | Tyrosine, Pre-col AQC Der        | 38       | 0.3820   | 0.2580 | 0.5860        | 0.2885 | 0.1490 | 2      | <b>-0.71</b>     | 17%            | 0    |
| 137.05      | Tyrosine, Pre-col AQC Der        | 626      | 0.7900   | 0.0400 | 0.5860        | 0.2885 | 0.1490 | 2      | <b>0.71</b>      | 17%            | 0    |
| 137.99      | Tyrosine, Miscellaneous          | 871      | 1.3500   | 0.0000 |               |        | 0.0000 | 1      |                  |                |      |
| 138.00      | Valine, Post-col Ninhydrin Der   | 675      | 0.9650   | 0.0100 | 1.1342        | 0.0434 | 0.0186 | 14     | <b>-3.90</b>     | 7%             | 0    |
| 138.00      | Valine, Post-col Ninhydrin Der   | 652      | 1.0500   | 0.0000 | 1.1342        | 0.0434 | 0.0186 | 14     | <b>-1.94</b>     | 4%             | 0    |
| 138.00      | Valine, Post-col Ninhydrin Der   | 350      | 1.0515   | 0.0030 | 1.1342        | 0.0434 | 0.0186 | 14     | <b>-1.90</b>     | 4%             | 0    |
| 138.00      | Valine, Post-col Ninhydrin Der   | 684      | 1.0665   | 0.0610 | 1.1342        | 0.0434 | 0.0186 | 14     | <b>-1.56</b>     | 3%             | 0    |
| 138.00      | Valine, Post-col Ninhydrin Der   | 227      | 1.1200   | 0.0200 | 1.1342        | 0.0434 | 0.0186 | 14     | <b>-0.33</b>     | 1%             | 0    |
| 138.00      | Valine, Post-col Ninhydrin Der   | 859      | 1.1320   | 0.0120 | 1.1342        | 0.0434 | 0.0186 | 14     | <b>-0.05</b>     | 0%             | 0    |
| 138.00      | Valine, Post-col Ninhydrin Der   | 619      | 1.1350   | 0.0300 | 1.1342        | 0.0434 | 0.0186 | 14     | <b>0.02</b>      | 0%             | 0    |
| 138.00      | Valine, Post-col Ninhydrin Der   | 571      | 1.1450   | 0.0100 | 1.1342        | 0.0434 | 0.0186 | 14     | <b>0.25</b>      | 0%             | 0    |
| 138.00      | Valine, Post-col Ninhydrin Der   | 868      | 1.1550   | 0.0700 | 1.1342        | 0.0434 | 0.0186 | 14     | <b>0.48</b>      | 1%             | 0    |
| 138.00      | Valine, Post-col Ninhydrin Der   | 644      | 1.1575   | 0.0090 | 1.1342        | 0.0434 | 0.0186 | 14     | <b>0.54</b>      | 1%             | 0    |
| 138.00      | Valine, Post-col Ninhydrin Der   | 676      | 1.1650   | 0.0140 | 1.1342        | 0.0434 | 0.0186 | 14     | <b>0.71</b>      | 1%             | 0    |
| 138.00      | Valine, Post-col Ninhydrin Der   | 872      | 1.1660   | 0.0000 | 1.1342        | 0.0434 | 0.0186 | 14     | <b>0.73</b>      | 1%             | 0    |
| 138.00      | Valine, Post-col Ninhydrin Der   | 504      | 1.1750   | 0.0100 | 1.1342        | 0.0434 | 0.0186 | 14     | <b>0.94</b>      | 2%             | 0    |
| 138.00      | Valine, Post-col Ninhydrin Der   | 160      | 1.1956   | 0.0108 | 1.1342        | 0.0434 | 0.0186 | 14     | <b>1.41</b>      | 3%             | 0    |
| 138.05      | Valine, Pre-col AQC Der          | 38       | 0.9295   | 0.1010 | 1.0348        | 0.1488 | 0.0505 | 2      | <b>-0.71</b>     | 5%             | 0    |
| 138.05      | Valine, Pre-col AQC Der          | 626      | 1.1400   | 0.0000 | 1.0348        | 0.1488 | 0.0505 | 2      | <b>0.71</b>      | 5%             | 0    |
| 138.99      | Valine, Miscellaneous            | 871      | 2.4350   | 0.0100 |               |        | 0.0100 | 1      |                  |                |      |
| 139.00      | Taurine, Post-col Ninhydrin Der  | 504      | 0.1400   | 0.0200 |               |        | 0.0200 | 1      |                  |                |      |
| 140.01      | Lysine Free, LC-PCD              | 859      | 0.0845   | 0.0010 |               |        | 0.0010 | 1      |                  |                |      |
| 141.00      | Methionine Free, LC-PCD          | 859      | 0.0020   | 0.0000 |               |        | 0.0000 | 1      |                  |                |      |
| 142.00      | Threonine Free, LC-PCD           | 859      | 0.1645   | 0.0030 |               |        | 0.0030 | 1      |                  |                |      |