



**AAFCO**  
Proficiency Testing Program



**Pet Food Ingredient Scheme**

**Brewer's Yeast**

**Test Material Code # 202042**

**Analyte Proficiency Testing Report**

**# Labs Reporting: 54**

**# Analytes Reported 65**

**Issue Date : 06/30/2020**

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 001          | Loss on Drying (%)    | 2155     | 8.910    | 0.4600 | 9.952         | 0.2404    | 0.1334 | 25      | -4.34            | 001.99      | 0    |
| 001          | Loss on Drying (%)    | 0845     | 8.955    | 0.1300 | 9.952         | 0.2404    | 0.1334 | 25      | -4.15            | 001.07      | 0    |
| 001          | Loss on Drying (%)    | 0034     | 9.460    | 0.1200 | 9.952         | 0.2404    | 0.1334 | 25      | -2.05            | 001.07      | 0    |
| 001          | Loss on Drying (%)    | 0889     | 9.485    | 0.0300 | 9.952         | 0.2404    | 0.1334 | 25      | -1.94            | 001.99      | 0    |
| 001          | Loss on Drying (%)    | 2115     | 9.645    | 0.0100 | 9.952         | 0.2404    | 0.1334 | 25      | -1.28            | 001.99      | 0    |
| 001          | Loss on Drying (%)    | 0171     | 9.840    | 0.1200 | 9.952         | 0.2404    | 0.1334 | 25      | -0.47            | 001.07      | 0    |
| 001          | Loss on Drying (%)    | 0309     | 9.867    | 0.1033 | 9.952         | 0.2404    | 0.1334 | 25      | -0.36            | 001.00      | 0    |
| 001          | Loss on Drying (%)    | 2220     | 9.900    | 0.0400 | 9.952         | 0.2404    | 0.1334 | 25      | -0.22            | 001.07      | 0    |
| 001          | Loss on Drying (%)    | 2293     | 9.920    | 0.1800 | 9.952         | 0.2404    | 0.1334 | 25      | -0.13            | 001.07      | 0    |
| 001          | Loss on Drying (%)    | 0918     | 9.925    | 0.0100 | 9.952         | 0.2404    | 0.1334 | 25      | -0.11            | 001.99      | 0    |
| 001          | Loss on Drying (%)    | 0619     | 9.955    | 0.0300 | 9.952         | 0.2404    | 0.1334 | 25      | 0.01             | 001.03      | 0    |
| 001          | Loss on Drying (%)    | 0504     | 9.975    | 0.2100 | 9.952         | 0.2404    | 0.1334 | 25      | 0.09             | 001.00      | 0    |
| 001          | Loss on Drying (%)    | 0074     | 9.990    | 0.3000 | 9.952         | 0.2404    | 0.1334 | 25      | 0.16             | 001.07      | 0    |
| 001          | Loss on Drying (%)    | 2252     | 9.995    | 0.0100 | 9.952         | 0.2404    | 0.1334 | 25      | 0.18             | 001.07      | 0    |
| 001          | Loss on Drying (%)    | 2136     | 9.995    | 0.2100 | 9.952         | 0.2404    | 0.1334 | 25      | 0.18             | 001.99      | 0    |
| 001          | Loss on Drying (%)    | 2124     | 10.01    | 0.1000 | 9.952         | 0.2404    | 0.1334 | 25      | 0.24             | 001.03      | 0    |
| 001          | Loss on Drying (%)    | 0510     | 10.05    | 0.1000 | 9.952         | 0.2404    | 0.1334 | 25      | 0.41             | 001.99      | 0    |
| 001          | Loss on Drying (%)    | 2156     | 10.09    | 0.1600 | 9.952         | 0.2404    | 0.1334 | 25      | 0.57             | 001.07      | 0    |
| 001          | Loss on Drying (%)    | 0876     | 10.10    | 0.2000 | 9.952         | 0.2404    | 0.1334 | 25      | 0.61             | 001.07      | 0    |
| 001          | Loss on Drying (%)    | 0065     | 10.13    | 0.3400 | 9.952         | 0.2404    | 0.1334 | 25      | 0.74             | 001.07      | 0    |
| 001          | Loss on Drying (%)    | 2219     | 10.16    | 0.1500 | 9.952         | 0.2404    | 0.1334 | 25      | 0.84             | 001.07      | 0    |
| 001          | Loss on Drying (%)    | 0656     | 10.18    | 0.0000 | 9.952         | 0.2404    | 0.1334 | 25      | 0.95             | 001.99      | 0    |
| 001          | Loss on Drying (%)    | 0003     | 10.19    | 0.0800 | 9.952         | 0.2404    | 0.1334 | 25      | 0.99             | 001.07      | 0    |
| 001          | Loss on Drying (%)    | 0098     | 10.22    | 0.0500 | 9.952         | 0.2404    | 0.1334 | 25      | 1.09             | 001.07      | 0    |
| 001          | Loss on Drying (%)    | 0407     | 10.46    | 0.1917 | 9.952         | 0.2404    | 0.1334 | 25      | 2.09             | 001.07      | 0    |
| 002          | Protein, Crude (%)    | 2232     | 44.83    | 0.1100 | 47.40         | 0.2912    | 0.1520 | 55      | -8.84            | 002.11      | 0    |
| 002          | Protein, Crude (%)    | 0051     | 46.85    | 0.7000 | 47.40         | 0.2912    | 0.1520 | 55      | -1.89            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0171     | 46.95    | 0.1700 | 47.40         | 0.2912    | 0.1520 | 55      | -1.56            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0870     | 46.96    | 0.0180 | 47.40         | 0.2912    | 0.1520 | 55      | -1.52            | 002.01      | 0    |
| 002          | Protein, Crude (%)    | 0164     | 46.97    | 0.1800 | 47.40         | 0.2912    | 0.1520 | 55      | -1.48            | 002.01      | 0    |
| 002          | Protein, Crude (%)    | 2122     | 47.05    | 0.0000 | 47.40         | 0.2912    | 0.1520 | 55      | -1.20            | 002.04      | 0    |
| 002          | Protein, Crude (%)    | 2232     | 47.05    | 0.1000 | 47.40         | 0.2912    | 0.1520 | 55      | -1.20            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 2162     | 47.10    | 0.1700 | 47.40         | 0.2912    | 0.1520 | 55      | -1.05            | 002.06      | 0    |

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 002          | Protein, Crude (%)    | 2184     | 47.10    | 0.1000 | 47.40         | 0.2912    | 0.1520 | 55      | -1.03            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0619     | 47.10    | 0.0000 | 47.40         | 0.2912    | 0.1520 | 55      | -1.03            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 2136     | 47.15    | 0.3000 | 47.40         | 0.2912    | 0.1520 | 55      | -0.86            | 002.08      | 0    |
| 002          | Protein, Crude (%)    | 2219     | 47.18    | 0.4300 | 47.40         | 0.2912    | 0.1520 | 55      | -0.77            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0407     | 47.19    | 0.1510 | 47.40         | 0.2912    | 0.1520 | 55      | -0.71            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 2312     | 47.23    | 0.1900 | 47.40         | 0.2912    | 0.1520 | 55      | -0.60            | 002.04      | 0    |
| 002          | Protein, Crude (%)    | 0845     | 47.23    | 0.8000 | 47.40         | 0.2912    | 0.1520 | 55      | -0.58            | 002.00      | 0    |
| 002          | Protein, Crude (%)    | 0504     | 47.24    | 0.2800 | 47.40         | 0.2912    | 0.1520 | 55      | -0.55            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 2016     | 47.28    | 0.1300 | 47.40         | 0.2912    | 0.1520 | 55      | -0.43            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 2115     | 47.29    | 0.1300 | 47.40         | 0.2912    | 0.1520 | 55      | -0.39            | 002.05      | 0    |
| 002          | Protein, Crude (%)    | 0417     | 47.29    | 0.0700 | 47.40         | 0.2912    | 0.1520 | 55      | -0.39            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0619     | 47.30    | 0.0000 | 47.40         | 0.2912    | 0.1520 | 55      | -0.34            | 002.01      | 0    |
| 002          | Protein, Crude (%)    | 0554     | 47.32    | 0.0300 | 47.40         | 0.2912    | 0.1520 | 55      | -0.29            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0202     | 47.33    | 0.3200 | 47.40         | 0.2912    | 0.1520 | 55      | -0.24            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0098     | 47.35    | 0.1000 | 47.40         | 0.2912    | 0.1520 | 55      | -0.17            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0042     | 47.35    | 0.3000 | 47.40         | 0.2912    | 0.1520 | 55      | -0.17            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0074     | 47.36    | 0.0500 | 47.40         | 0.2912    | 0.1520 | 55      | -0.15            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0003     | 47.37    | 0.2000 | 47.40         | 0.2912    | 0.1520 | 55      | -0.10            | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 2293     | 47.40    | 0.1400 | 47.40         | 0.2912    | 0.1520 | 55      | 0.00             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0656     | 47.42    | 0.0000 | 47.40         | 0.2912    | 0.1520 | 55      | 0.07             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0870     | 47.42    | 0.0688 | 47.40         | 0.2912    | 0.1520 | 55      | 0.07             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0098     | 47.43    | 0.0100 | 47.40         | 0.2912    | 0.1520 | 55      | 0.09             | 002.08      | 0    |
| 002          | Protein, Crude (%)    | 0553     | 47.43    | 0.0200 | 47.40         | 0.2912    | 0.1520 | 55      | 0.10             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0065     | 47.44    | 0.0740 | 47.40         | 0.2912    | 0.1520 | 55      | 0.12             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 2156     | 47.45    | 0.0100 | 47.40         | 0.2912    | 0.1520 | 55      | 0.15             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 2207     | 47.46    | 0.1000 | 47.40         | 0.2912    | 0.1520 | 55      | 0.21             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0164     | 47.47    | 0.0600 | 47.40         | 0.2912    | 0.1520 | 55      | 0.24             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0958     | 47.54    | 0.1500 | 47.40         | 0.2912    | 0.1520 | 55      | 0.46             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 2033     | 47.54    | 0.0500 | 47.40         | 0.2912    | 0.1520 | 55      | 0.46             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 2155     | 47.55    | 0.1310 | 47.40         | 0.2912    | 0.1520 | 55      | 0.50             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0010     | 47.55    | 0.1000 | 47.40         | 0.2912    | 0.1520 | 55      | 0.52             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0208     | 47.55    | 0.1000 | 47.40         | 0.2912    | 0.1520 | 55      | 0.52             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0880     | 47.55    | 0.1000 | 47.40         | 0.2912    | 0.1520 | 55      | 0.52             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0529     | 47.60    | 0.0300 | 47.40         | 0.2912    | 0.1520 | 55      | 0.67             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0889     | 47.61    | 0.0100 | 47.40         | 0.2912    | 0.1520 | 55      | 0.70             | 002.01      | 0    |
| 002          | Protein, Crude (%)    | 0309     | 47.62    | 0.2120 | 47.40         | 0.2912    | 0.1520 | 55      | 0.75             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0504     | 47.64    | 0.0800 | 47.40         | 0.2912    | 0.1520 | 55      | 0.82             | 002.04      | 0    |
| 002          | Protein, Crude (%)    | 0510     | 47.65    | 0.1000 | 47.40         | 0.2912    | 0.1520 | 55      | 0.86             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 2124     | 47.65    | 0.1200 | 47.40         | 0.2912    | 0.1520 | 55      | 0.86             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0242     | 47.66    | 0.1100 | 47.40         | 0.2912    | 0.1520 | 55      | 0.88             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0876     | 47.75    | 0.5000 | 47.40         | 0.2912    | 0.1520 | 55      | 1.20             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 2089     | 47.86    | 0.0800 | 47.40         | 0.2912    | 0.1520 | 55      | 1.58             | 002.06      | 0    |

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 002          | Protein, Crude (%)    | 0001     | 47.89    | 0.0900 | 47.40         | 0.2912    | 0.1520 | 55      | 1.67             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 2169     | 47.95    | 0.1000 | 47.40         | 0.2912    | 0.1520 | 55      | 1.89             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0034     | 47.95    | 0.0640 | 47.40         | 0.2912    | 0.1520 | 55      | 1.90             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 2303     | 47.96    | 0.4700 | 47.40         | 0.2912    | 0.1520 | 55      | 1.91             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 0918     | 48.01    | 0.2500 | 47.40         | 0.2912    | 0.1520 | 55      | 2.08             | 002.06      | 0    |
| 002          | Protein, Crude (%)    | 2252     | 46.63    | 0.9720 | 47.40         | 0.2912    | 0.1520 | 55      | -2.64            | 002.06      | 1    |
| 002          | Protein, Crude (%)    | 2220     | 46.82    | 1.020  | 47.40         | 0.2912    | 0.1520 | 55      | -1.99            | 002.06      | 1    |
| 002          | Protein, Crude (%)    | 0553     | 43.31    | 0.0200 | 47.40         | 0.2912    | 0.1520 | 55      | -14.05           | 002.11      | 2    |
| 003          | Fat, Crude (%)        | 0242     | 0.3800   | 0.1800 | 1.140         | 0.2527    | 0.1484 | 37      | -3.01            | 003.10      | 0    |
| 003          | Fat, Crude (%)        | 0529     | 0.7850   | 0.0700 | 1.140         | 0.2527    | 0.1484 | 37      | -1.41            | 003.14      | 0    |
| 003          | Fat, Crude (%)        | 0034     | 0.8550   | 0.7100 | 1.140         | 0.2527    | 0.1484 | 37      | -1.13            | 003.14      | 0    |
| 003          | Fat, Crude (%)        | 2136     | 0.8800   | 0.1600 | 1.140         | 0.2527    | 0.1484 | 37      | -1.03            | 003.10      | 0    |
| 003          | Fat, Crude (%)        | 0051     | 0.9000   | 0.2000 | 1.140         | 0.2527    | 0.1484 | 37      | -0.95            | 003.10      | 0    |
| 003          | Fat, Crude (%)        | 2089     | 0.9100   | 0.1200 | 1.140         | 0.2527    | 0.1484 | 37      | -0.91            | 003.13      | 0    |
| 003          | Fat, Crude (%)        | 0202     | 0.9325   | 0.0870 | 1.140         | 0.2527    | 0.1484 | 37      | -0.82            | 003.14      | 0    |
| 003          | Fat, Crude (%)        | 2162     | 0.9400   | 0.0400 | 1.140         | 0.2527    | 0.1484 | 37      | -0.79            | 003.10      | 0    |
| 003          | Fat, Crude (%)        | 0171     | 0.9400   | 0.0200 | 1.140         | 0.2527    | 0.1484 | 37      | -0.79            | 003.12      | 0    |
| 003          | Fat, Crude (%)        | 2115     | 0.9400   | 0.0400 | 1.140         | 0.2527    | 0.1484 | 37      | -0.79            | 003.14      | 0    |
| 003          | Fat, Crude (%)        | 0164     | 0.9650   | 0.0500 | 1.140         | 0.2527    | 0.1484 | 37      | -0.69            | 003.06      | 0    |
| 003          | Fat, Crude (%)        | 0876     | 1.000    | 0.0000 | 1.140         | 0.2527    | 0.1484 | 37      | -0.55            | 003.14      | 0    |
| 003          | Fat, Crude (%)        | 2207     | 1.000    | 0.2000 | 1.140         | 0.2527    | 0.1484 | 37      | -0.55            | 003.14      | 0    |
| 003          | Fat, Crude (%)        | 0554     | 1.010    | 0.2400 | 1.140         | 0.2527    | 0.1484 | 37      | -0.52            | 003.14      | 0    |
| 003          | Fat, Crude (%)        | 2115     | 1.035    | 0.0100 | 1.140         | 0.2527    | 0.1484 | 37      | -0.42            | 003.00      | 0    |
| 003          | Fat, Crude (%)        | 2033     | 1.070    | 0.0400 | 1.140         | 0.2527    | 0.1484 | 37      | -0.28            | 003.06      | 0    |
| 003          | Fat, Crude (%)        | 2155     | 1.080    | 0.0062 | 1.140         | 0.2527    | 0.1484 | 37      | -0.24            | 003.10      | 0    |
| 003          | Fat, Crude (%)        | 0870     | 1.110    | 0.0218 | 1.140         | 0.2527    | 0.1484 | 37      | -0.12            | 003.10      | 0    |
| 003          | Fat, Crude (%)        | 0098     | 1.120    | 0.0800 | 1.140         | 0.2527    | 0.1484 | 37      | -0.08            | 003.10      | 0    |
| 003          | Fat, Crude (%)        | 0309     | 1.139    | 0.0743 | 1.140         | 0.2527    | 0.1484 | 37      | 0.00             | 003.00      | 0    |
| 003          | Fat, Crude (%)        | 0510     | 1.150    | 0.1000 | 1.140         | 0.2527    | 0.1484 | 37      | 0.04             | 003.09      | 0    |
| 003          | Fat, Crude (%)        | 2184     | 1.170    | 0.0200 | 1.140         | 0.2527    | 0.1484 | 37      | 0.12             | 003.10      | 0    |
| 003          | Fat, Crude (%)        | 0098     | 1.200    | 0.0800 | 1.140         | 0.2527    | 0.1484 | 37      | 0.24             | 003.09      | 0    |
| 003          | Fat, Crude (%)        | 0098     | 1.200    | 0.1000 | 1.140         | 0.2527    | 0.1484 | 37      | 0.24             | 003.13      | 0    |
| 003          | Fat, Crude (%)        | 0619     | 1.205    | 0.4100 | 1.140         | 0.2527    | 0.1484 | 37      | 0.26             | 003.10      | 0    |
| 003          | Fat, Crude (%)        | 0619     | 1.245    | 0.1100 | 1.140         | 0.2527    | 0.1484 | 37      | 0.41             | 003.14      | 0    |
| 003          | Fat, Crude (%)        | 0918     | 1.285    | 0.1900 | 1.140         | 0.2527    | 0.1484 | 37      | 0.57             | 003.06      | 0    |
| 003          | Fat, Crude (%)        | 0407     | 1.314    | 0.2155 | 1.140         | 0.2527    | 0.1484 | 37      | 0.69             | 003.14      | 0    |
| 003          | Fat, Crude (%)        | 0504     | 1.320    | 0.5000 | 1.140         | 0.2527    | 0.1484 | 37      | 0.71             | 003.01      | 0    |
| 003          | Fat, Crude (%)        | 0889     | 1.360    | 0.0800 | 1.140         | 0.2527    | 0.1484 | 37      | 0.87             | 003.10      | 0    |
| 003          | Fat, Crude (%)        | 0870     | 1.369    | 0.0508 | 1.140         | 0.2527    | 0.1484 | 37      | 0.91             | 003.09      | 0    |
| 003          | Fat, Crude (%)        | 0003     | 1.450    | 0.1800 | 1.140         | 0.2527    | 0.1484 | 37      | 1.23             | 003.14      | 0    |
| 003          | Fat, Crude (%)        | 0074     | 1.470    | 0.5200 | 1.140         | 0.2527    | 0.1484 | 37      | 1.30             | 003.14      | 0    |
| 003          | Fat, Crude (%)        | 2232     | 1.557    | 0.2440 | 1.140         | 0.2527    | 0.1484 | 37      | 1.65             | 003.10      | 0    |

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 003          | Fat, Crude (%)        | 0870     | 1.830    | 0.0311 | 1.140         | 0.2527    | 0.1484 | 37      | 2.73             | 003.13      | 0    |
| 003          | Fat, Crude (%)        | 2293     | 2.790    | 0.2400 | 1.140         | 0.2527    | 0.1484 | 37      | 6.53             | 003.00      | 0    |
| 003          | Fat, Crude (%)        | 2232     | 3.885    | 0.0700 | 1.140         | 0.2527    | 0.1484 | 37      | 10.86            | 003.11      | 0    |
| 003          | Fat, Crude (%)        | 0880     | 2.700    | 1.800  | 1.140         | 0.2527    | 0.1484 | 37      | 6.17             | 003.99      | 1    |
| 004          | Fiber, Crude (%)      | 0202     | 2.500    | 0.3200 | 4.091         | 0.5965    | 0.1617 | 27      | -2.67            | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 0242     | 3.225    | 0.1500 | 4.091         | 0.5965    | 0.1617 | 27      | -1.45            | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 0510     | 3.250    | 0.1000 | 4.091         | 0.5965    | 0.1617 | 27      | -1.41            | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 0164     | 3.450    | 0.5000 | 4.091         | 0.5965    | 0.1617 | 27      | -1.07            | 004.00      | 0    |
| 004          | Fiber, Crude (%)      | 0656     | 3.490    | 0.0000 | 4.091         | 0.5965    | 0.1617 | 27      | -1.01            | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 0619     | 3.575    | 0.0900 | 4.091         | 0.5965    | 0.1617 | 27      | -0.86            | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 2115     | 3.645    | 0.0500 | 4.091         | 0.5965    | 0.1617 | 27      | -0.75            | 004.06      | 0    |
| 004          | Fiber, Crude (%)      | 0171     | 3.725    | 0.2300 | 4.091         | 0.5965    | 0.1617 | 27      | -0.61            | 004.00      | 0    |
| 004          | Fiber, Crude (%)      | 2089     | 3.810    | 0.0800 | 4.091         | 0.5965    | 0.1617 | 27      | -0.47            | 004.03      | 0    |
| 004          | Fiber, Crude (%)      | 2115     | 3.850    | 0.0800 | 4.091         | 0.5965    | 0.1617 | 27      | -0.40            | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 0870     | 3.889    | 0.1574 | 4.091         | 0.5965    | 0.1617 | 27      | -0.34            | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 0918     | 4.095    | 0.0500 | 4.091         | 0.5965    | 0.1617 | 27      | 0.01             | 004.06      | 0    |
| 004          | Fiber, Crude (%)      | 0309     | 4.123    | 0.0158 | 4.091         | 0.5965    | 0.1617 | 27      | 0.05             | 004.00      | 0    |
| 004          | Fiber, Crude (%)      | 0034     | 4.130    | 0.1400 | 4.091         | 0.5965    | 0.1617 | 27      | 0.07             | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 0074     | 4.155    | 0.0900 | 4.091         | 0.5965    | 0.1617 | 27      | 0.11             | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 0529     | 4.185    | 0.0700 | 4.091         | 0.5965    | 0.1617 | 27      | 0.16             | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 0845     | 4.295    | 0.0900 | 4.091         | 0.5965    | 0.1617 | 27      | 0.34             | 004.06      | 0    |
| 004          | Fiber, Crude (%)      | 0407     | 4.316    | 0.2121 | 4.091         | 0.5965    | 0.1617 | 27      | 0.38             | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 0876     | 4.450    | 0.1000 | 4.091         | 0.5965    | 0.1617 | 27      | 0.60             | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 0208     | 4.525    | 0.3300 | 4.091         | 0.5965    | 0.1617 | 27      | 0.73             | 004.00      | 0    |
| 004          | Fiber, Crude (%)      | 0504     | 4.550    | 0.3000 | 4.091         | 0.5965    | 0.1617 | 27      | 0.77             | 004.00      | 0    |
| 004          | Fiber, Crude (%)      | 0553     | 4.570    | 0.1600 | 4.091         | 0.5965    | 0.1617 | 27      | 0.80             | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 0554     | 4.640    | 0.1000 | 4.091         | 0.5965    | 0.1617 | 27      | 0.92             | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 2207     | 4.700    | 0.4000 | 4.091         | 0.5965    | 0.1617 | 27      | 1.02             | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 2312     | 4.750    | 0.1000 | 4.091         | 0.5965    | 0.1617 | 27      | 1.11             | 004.00      | 0    |
| 004          | Fiber, Crude (%)      | 2124     | 4.875    | 0.2500 | 4.091         | 0.5965    | 0.1617 | 27      | 1.31             | 004.07      | 0    |
| 004          | Fiber, Crude (%)      | 2033     | 7.900    | 0.2000 | 4.091         | 0.5965    | 0.1617 | 27      | 6.39             | 004.07      | 0    |
| 005          | Ash (%)               | 2232     | 3.620    | 0.0600 | 5.608         | 0.2796    | 0.1193 | 43      | -7.11            | 005.11      | 0    |
| 005          | Ash (%)               | 2232     | 4.490    | 0.0200 | 5.608         | 0.2796    | 0.1193 | 43      | -4.00            | 005.00      | 0    |
| 005          | Ash (%)               | 0870     | 5.256    | 0.0510 | 5.608         | 0.2796    | 0.1193 | 43      | -1.26            | 005.00      | 0    |
| 005          | Ash (%)               | 0001     | 5.301    | 0.0030 | 5.608         | 0.2796    | 0.1193 | 43      | -1.10            | 005.00      | 0    |
| 005          | Ash (%)               | 2312     | 5.315    | 0.0500 | 5.608         | 0.2796    | 0.1193 | 43      | -1.05            | 005.00      | 0    |
| 005          | Ash (%)               | 0510     | 5.335    | 0.1100 | 5.608         | 0.2796    | 0.1193 | 43      | -0.98            | 005.00      | 0    |
| 005          | Ash (%)               | 0034     | 5.348    | 0.0850 | 5.608         | 0.2796    | 0.1193 | 43      | -0.93            | 005.05      | 0    |
| 005          | Ash (%)               | 0417     | 5.360    | 0.0200 | 5.608         | 0.2796    | 0.1193 | 43      | -0.89            | 005.00      | 0    |
| 005          | Ash (%)               | 2033     | 5.400    | 0.0000 | 5.608         | 0.2796    | 0.1193 | 43      | -0.75            | 005.00      | 0    |
| 005          | Ash (%)               | 0529     | 5.425    | 0.3500 | 5.608         | 0.2796    | 0.1193 | 43      | -0.66            | 005.00      | 0    |
| 005          | Ash (%)               | 2115     | 5.445    | 0.0900 | 5.608         | 0.2796    | 0.1193 | 43      | -0.58            | 005.00      | 0    |

| Method Group | Analyte Group (Units)     | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|---------------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                           |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 005          | Ash (%)                   | 0171     | 5.460    | 0.0600 | 5.608         | 0.2796    | 0.1193 | 43      | -0.53            | 005.00      | 0    |
| 005          | Ash (%)                   | 2162     | 5.465    | 0.0500 | 5.608         | 0.2796    | 0.1193 | 43      | -0.51            | 005.00      | 0    |
| 005          | Ash (%)                   | 2124     | 5.475    | 0.0100 | 5.608         | 0.2796    | 0.1193 | 43      | -0.48            | 005.00      | 0    |
| 005          | Ash (%)                   | 0202     | 5.475    | 0.0100 | 5.608         | 0.2796    | 0.1193 | 43      | -0.48            | 005.99      | 0    |
| 005          | Ash (%)                   | 0051     | 5.500    | 0.2000 | 5.608         | 0.2796    | 0.1193 | 43      | -0.39            | 005.00      | 0    |
| 005          | Ash (%)                   | 0098     | 5.510    | 0.0400 | 5.608         | 0.2796    | 0.1193 | 43      | -0.35            | 005.00      | 0    |
| 005          | Ash (%)                   | 0918     | 5.520    | 0.0000 | 5.608         | 0.2796    | 0.1193 | 43      | -0.32            | 005.00      | 0    |
| 005          | Ash (%)                   | 2089     | 5.535    | 0.0700 | 5.608         | 0.2796    | 0.1193 | 43      | -0.26            | 005.00      | 0    |
| 005          | Ash (%)                   | 0876     | 5.550    | 0.1000 | 5.608         | 0.2796    | 0.1193 | 43      | -0.21            | 005.00      | 0    |
| 005          | Ash (%)                   | 2016     | 5.550    | 0.0200 | 5.608         | 0.2796    | 0.1193 | 43      | -0.21            | 005.00      | 0    |
| 005          | Ash (%)                   | 0407     | 5.555    | 0.3182 | 5.608         | 0.2796    | 0.1193 | 43      | -0.19            | 005.00      | 0    |
| 005          | Ash (%)                   | 0553     | 5.610    | 0.1400 | 5.608         | 0.2796    | 0.1193 | 43      | 0.01             | 005.00      | 0    |
| 005          | Ash (%)                   | 0164     | 5.620    | 0.0000 | 5.608         | 0.2796    | 0.1193 | 43      | 0.04             | 005.00      | 0    |
| 005          | Ash (%)                   | 0065     | 5.625    | 0.2700 | 5.608         | 0.2796    | 0.1193 | 43      | 0.06             | 005.05      | 0    |
| 005          | Ash (%)                   | 0208     | 5.630    | 0.3000 | 5.608         | 0.2796    | 0.1193 | 43      | 0.08             | 005.00      | 0    |
| 005          | Ash (%)                   | 2293     | 5.635    | 0.3500 | 5.608         | 0.2796    | 0.1193 | 43      | 0.10             | 005.00      | 0    |
| 005          | Ash (%)                   | 0003     | 5.635    | 0.2500 | 5.608         | 0.2796    | 0.1193 | 43      | 0.10             | 005.05      | 0    |
| 005          | Ash (%)                   | 2252     | 5.655    | 0.1700 | 5.608         | 0.2796    | 0.1193 | 43      | 0.17             | 005.00      | 0    |
| 005          | Ash (%)                   | 0656     | 5.670    | 0.0000 | 5.608         | 0.2796    | 0.1193 | 43      | 0.22             | 005.00      | 0    |
| 005          | Ash (%)                   | 0504     | 5.675    | 0.2300 | 5.608         | 0.2796    | 0.1193 | 43      | 0.24             | 005.00      | 0    |
| 005          | Ash (%)                   | 2136     | 5.710    | 0.4600 | 5.608         | 0.2796    | 0.1193 | 43      | 0.36             | 005.05      | 0    |
| 005          | Ash (%)                   | 0242     | 5.775    | 0.1100 | 5.608         | 0.2796    | 0.1193 | 43      | 0.60             | 005.00      | 0    |
| 005          | Ash (%)                   | 2156     | 5.815    | 0.0100 | 5.608         | 0.2796    | 0.1193 | 43      | 0.74             | 005.00      | 0    |
| 005          | Ash (%)                   | 0619     | 5.840    | 0.0000 | 5.608         | 0.2796    | 0.1193 | 43      | 0.83             | 005.05      | 0    |
| 005          | Ash (%)                   | 0889     | 5.950    | 0.0600 | 5.608         | 0.2796    | 0.1193 | 43      | 1.22             | 005.05      | 0    |
| 005          | Ash (%)                   | 0309     | 5.992    | 0.0340 | 5.608         | 0.2796    | 0.1193 | 43      | 1.37             | 005.00      | 0    |
| 005          | Ash (%)                   | 0880     | 6.055    | 0.4500 | 5.608         | 0.2796    | 0.1193 | 43      | 1.60             | 005.00      | 0    |
| 005          | Ash (%)                   | 0845     | 6.090    | 0.1200 | 5.608         | 0.2796    | 0.1193 | 43      | 1.72             | 005.00      | 0    |
| 005          | Ash (%)                   | 2219     | 6.090    | 0.1000 | 5.608         | 0.2796    | 0.1193 | 43      | 1.72             | 005.00      | 0    |
| 005          | Ash (%)                   | 0554     | 6.150    | 0.0600 | 5.608         | 0.2796    | 0.1193 | 43      | 1.94             | 005.00      | 0    |
| 005          | Ash (%)                   | 2207     | 6.150    | 0.1000 | 5.608         | 0.2796    | 0.1193 | 43      | 1.94             | 005.00      | 0    |
| 005          | Ash (%)                   | 2184     | 7.410    | 0.2000 | 5.608         | 0.2796    | 0.1193 | 43      | 6.44             | 005.00      | 0    |
| 005          | Ash (%)                   | 2220     | 5.755    | 0.8300 | 5.608         | 0.2796    | 0.1193 | 43      | 0.52             | 005.00      | 1    |
| 005          | Ash (%)                   | 2169     | 11.25    | 0.1000 | 5.608         | 0.2796    | 0.1193 | 43      | 20.18            | 005.99      | 2    |
| 006          | Total Sugars (%)          | 0407     | 18.30    | 0.5250 |               |           |        | 1       |                  | 006.00      | 0    |
| 008          | Fiber, Acid Detergent (%) | 0619     | 4.935    | 0.0300 | 5.879         | 0.6913    | 0.3408 | 8       | -1.37            | 008.08      | 0    |
| 008          | Fiber, Acid Detergent (%) | 0309     | 5.106    | 0.0019 | 5.879         | 0.6913    | 0.3408 | 8       | -1.12            | 008.02      | 0    |
| 008          | Fiber, Acid Detergent (%) | 0407     | 5.607    | 0.8219 | 5.879         | 0.6913    | 0.3408 | 8       | -0.39            | 008.08      | 0    |
| 008          | Fiber, Acid Detergent (%) | 0870     | 6.053    | 0.3229 | 5.879         | 0.6913    | 0.3408 | 8       | 0.25             | 008.08      | 0    |
| 008          | Fiber, Acid Detergent (%) | 0889     | 6.120    | 0.0800 | 5.879         | 0.6913    | 0.3408 | 8       | 0.35             | 008.08      | 0    |
| 008          | Fiber, Acid Detergent (%) | 0918     | 6.158    | 0.2799 | 5.879         | 0.6913    | 0.3408 | 8       | 0.40             | 008.08      | 0    |
| 008          | Fiber, Acid Detergent (%) | 0164     | 6.400    | 1.000  | 5.879         | 0.6913    | 0.3408 | 8       | 0.75             | 008.08      | 0    |

| Method Group | Analyte Group (Units)        | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|------------------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                              |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 008          | Fiber, Acid Detergent (%)    | 0504     | 6.655    | 0.1900 | 5.879         | 0.6913    | 0.3408 | 8       | 1.12             | 008.02      | 0    |
| 009          | Fiber, Neutral Detergent (%) | 0619     | 7.860    | 0.1600 | 11.05         | 2.659     | 0.9708 | 8       | -1.20            | 009.09      | 0    |
| 009          | Fiber, Neutral Detergent (%) | 0309     | 9.636    | 0.0800 | 11.05         | 2.659     | 0.9708 | 8       | -0.53            | 009.07      | 0    |
| 009          | Fiber, Neutral Detergent (%) | 0918     | 9.665    | 0.3900 | 11.05         | 2.659     | 0.9708 | 8       | -0.52            | 009.09      | 0    |
| 009          | Fiber, Neutral Detergent (%) | 0407     | 9.837    | 1.995  | 11.05         | 2.659     | 0.9708 | 8       | -0.46            | 009.09      | 0    |
| 009          | Fiber, Neutral Detergent (%) | 0870     | 10.41    | 0.1414 | 11.05         | 2.659     | 0.9708 | 8       | -0.24            | 009.09      | 0    |
| 009          | Fiber, Neutral Detergent (%) | 0164     | 12.50    | 1.600  | 11.05         | 2.659     | 0.9708 | 8       | 0.55             | 009.09      | 0    |
| 009          | Fiber, Neutral Detergent (%) | 0504     | 14.21    | 3.300  | 11.05         | 2.659     | 0.9708 | 8       | 1.19             | 009.04      | 0    |
| 009          | Fiber, Neutral Detergent (%) | 0889     | 14.28    | 0.1000 | 11.05         | 2.659     | 0.9708 | 8       | 1.21             | 009.09      | 0    |
| 010          | Moisture (%)                 | 2169     | 5.305    | 0.0300 | 9.034         | 2.517     | 0.0725 | 4       |                  | 010.99      | 0    |
| 010          | Moisture (%)                 | 2232     | 9.845    | 0.1900 | 9.034         | 2.517     | 0.0725 | 4       |                  | 010.99      | 0    |
| 010          | Moisture (%)                 | 2089     | 10.19    | 0.0600 | 9.034         | 2.517     | 0.0725 | 4       |                  | 010.99      | 0    |
| 010          | Moisture (%)                 | 2232     | 10.80    | 0.0100 | 9.034         | 2.517     | 0.0725 | 4       |                  | 010.11      | 0    |
| 011          | Loss on Drying (%)           | 2016     | 9.415    | 0.1700 | 10.93         | 0.4899    | 0.1342 | 24      | -3.10            | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 2232     | 9.649    | 0.0236 | 10.93         | 0.4899    | 0.1342 | 24      | -2.62            | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 0554     | 10.23    | 0.0500 | 10.93         | 0.4899    | 0.1342 | 24      | -1.44            | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 0510     | 10.55    | 0.1000 | 10.93         | 0.4899    | 0.1342 | 24      | -0.78            | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 2207     | 10.55    | 0.1000 | 10.93         | 0.4899    | 0.1342 | 24      | -0.78            | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 2162     | 10.57    | 0.0100 | 10.93         | 0.4899    | 0.1342 | 24      | -0.75            | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 0553     | 10.64    | 0.2300 | 10.93         | 0.4899    | 0.1342 | 24      | -0.61            | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 2083     | 10.69    | 0.1800 | 10.93         | 0.4899    | 0.1342 | 24      | -0.49            | 011.02      | 0    |
| 011          | Loss on Drying (%)           | 2033     | 10.76    | 0.0100 | 10.93         | 0.4899    | 0.1342 | 24      | -0.36            | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 0164     | 10.85    | 0.2400 | 10.93         | 0.4899    | 0.1342 | 24      | -0.17            | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 0208     | 10.85    | 0.1000 | 10.93         | 0.4899    | 0.1342 | 24      | -0.17            | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 0417     | 10.88    | 0.2000 | 10.93         | 0.4899    | 0.1342 | 24      | -0.11            | 011.02      | 0    |
| 011          | Loss on Drying (%)           | 2312     | 10.94    | 0.1100 | 10.93         | 0.4899    | 0.1342 | 24      | 0.01             | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 0098     | 11.05    | 0.2700 | 10.93         | 0.4899    | 0.1342 | 24      | 0.23             | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 2184     | 11.08    | 0.4000 | 10.93         | 0.4899    | 0.1342 | 24      | 0.30             | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 0529     | 11.10    | 0.0300 | 10.93         | 0.4899    | 0.1342 | 24      | 0.33             | 011.02      | 0    |
| 011          | Loss on Drying (%)           | 0171     | 11.20    | 0.0300 | 10.93         | 0.4899    | 0.1342 | 24      | 0.54             | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 0309     | 11.23    | 0.1700 | 10.93         | 0.4899    | 0.1342 | 24      | 0.60             | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 0870     | 11.29    | 0.1348 | 10.93         | 0.4899    | 0.1342 | 24      | 0.72             | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 0051     | 11.32    | 0.1800 | 10.93         | 0.4899    | 0.1342 | 24      | 0.79             | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 0242     | 11.45    | 0.0000 | 10.93         | 0.4899    | 0.1342 | 24      | 1.06             | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 2303     | 11.52    | 0.4040 | 10.93         | 0.4899    | 0.1342 | 24      | 1.20             | 011.99      | 0    |
| 011          | Loss on Drying (%)           | 0202     | 11.60    | 0.0200 | 10.93         | 0.4899    | 0.1342 | 24      | 1.36             | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 0407     | 11.71    | 0.0582 | 10.93         | 0.4899    | 0.1342 | 24      | 1.59             | 011.01      | 0    |
| 011          | Loss on Drying (%)           | 0880     | 8.790    | 2.400  | 10.93         | 0.4899    | 0.1342 | 24      | -4.37            | 011.01      | 1    |
| 012          | Starch (%)                   | 0510     | 1.650    | 0.1000 | 3.026         | 1.880     | 0.2121 | 7       | -0.73            | 012.04      | 0    |
| 012          | Starch (%)                   | 0918     | 1.674    | 0.3410 | 3.026         | 1.880     | 0.2121 | 7       | -0.72            | 012.01      | 0    |
| 012          | Starch (%)                   | 2124     | 2.100    | 0.2000 | 3.026         | 1.880     | 0.2121 | 7       | -0.49            | 012.03      | 0    |
| 012          | Starch (%)                   | 0870     | 2.144    | 0.1430 | 3.026         | 1.880     | 0.2121 | 7       | -0.47            | 012.01      | 0    |

| Method Group | Analyte Group (Units)  | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|------------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                        |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 012          | Starch (%)             | 0407     | 2.854    | 0.1408 | 3.026         | 1.880     | 0.2121 | 7       | -0.09            | 012.03      | 0    |
| 012          | Starch (%)             | 0889     | 5.290    | 0.2400 | 3.026         | 1.880     | 0.2121 | 7       | 1.20             | 012.03      | 0    |
| 012          | Starch (%)             | 0619     | 5.470    | 0.3200 | 3.026         | 1.880     | 0.2121 | 7       | 1.30             | 012.00      | 0    |
| 013          | Fat, Acid Pretreat (%) | 0845     | 0.6850   | 0.0500 | 2.557         | 0.8036    | 0.2999 | 18      | -2.33            | 013.10      | 0    |
| 013          | Fat, Acid Pretreat (%) | 2162     | 1.135    | 0.0900 | 2.557         | 0.8036    | 0.2999 | 18      | -1.77            | 013.10      | 0    |
| 013          | Fat, Acid Pretreat (%) | 2124     | 1.360    | 0.1600 | 2.557         | 0.8036    | 0.2999 | 18      | -1.49            | 013.10      | 0    |
| 013          | Fat, Acid Pretreat (%) | 2219     | 2.160    | 0.3400 | 2.557         | 0.8036    | 0.2999 | 18      | -0.49            | 013.00      | 0    |
| 013          | Fat, Acid Pretreat (%) | 0309     | 2.182    | 0.0767 | 2.557         | 0.8036    | 0.2999 | 18      | -0.47            | 013.00      | 0    |
| 013          | Fat, Acid Pretreat (%) | 0242     | 2.370    | 0.3000 | 2.557         | 0.8036    | 0.2999 | 18      | -0.23            | 013.00      | 0    |
| 013          | Fat, Acid Pretreat (%) | 0065     | 2.470    | 0.4600 | 2.557         | 0.8036    | 0.2999 | 18      | -0.11            | 013.02      | 0    |
| 013          | Fat, Acid Pretreat (%) | 0098     | 2.565    | 0.1500 | 2.557         | 0.8036    | 0.2999 | 18      | 0.01             | 013.02      | 0    |
| 013          | Fat, Acid Pretreat (%) | 2220     | 2.580    | 0.4200 | 2.557         | 0.8036    | 0.2999 | 18      | 0.03             | 013.00      | 0    |
| 013          | Fat, Acid Pretreat (%) | 2156     | 2.610    | 0.6800 | 2.557         | 0.8036    | 0.2999 | 18      | 0.07             | 013.00      | 0    |
| 013          | Fat, Acid Pretreat (%) | 2016     | 2.680    | 0.6000 | 2.557         | 0.8036    | 0.2999 | 18      | 0.15             | 013.00      | 0    |
| 013          | Fat, Acid Pretreat (%) | 2312     | 2.710    | 0.3200 | 2.557         | 0.8036    | 0.2999 | 18      | 0.19             | 013.02      | 0    |
| 013          | Fat, Acid Pretreat (%) | 2252     | 2.785    | 0.3100 | 2.557         | 0.8036    | 0.2999 | 18      | 0.28             | 013.00      | 0    |
| 013          | Fat, Acid Pretreat (%) | 0407     | 3.047    | 0.0460 | 2.557         | 0.8036    | 0.2999 | 18      | 0.61             | 013.02      | 0    |
| 013          | Fat, Acid Pretreat (%) | 0870     | 3.111    | 0.8800 | 2.557         | 0.8036    | 0.2999 | 18      | 0.69             | 013.02      | 0    |
| 013          | Fat, Acid Pretreat (%) | 0171     | 3.215    | 0.0300 | 2.557         | 0.8036    | 0.2999 | 18      | 0.82             | 013.02      | 0    |
| 013          | Fat, Acid Pretreat (%) | 0202     | 3.710    | 0.2800 | 2.557         | 0.8036    | 0.2999 | 18      | 1.44             | 013.00      | 0    |
| 013          | Fat, Acid Pretreat (%) | 0407     | 4.153    | 0.2050 | 2.557         | 0.8036    | 0.2999 | 18      | 1.99             | 013.13      | 0    |
| 015          | Aluminum (ppm)         | 0510     | 25.00    | 0.0000 | 39.15         | 15.36     | 1.131  | 5       |                  | 015.43      | 0    |
| 015          | Aluminum (ppm)         | 0918     | 32.12    | 0.3300 | 39.15         | 15.36     | 1.131  | 5       |                  | 015.43      | 0    |
| 015          | Aluminum (ppm)         | 0407     | 32.70    | 2.226  | 39.15         | 15.36     | 1.131  | 5       |                  | 015.41      | 0    |
| 015          | Aluminum (ppm)         | 0553     | 41.35    | 2.700  | 39.15         | 15.36     | 1.131  | 5       |                  | 015.53      | 0    |
| 015          | Aluminum (ppm)         | 0171     | 64.60    | 0.4000 | 39.15         | 15.36     | 1.131  | 5       |                  | 015.41      | 0    |
| 017          | Boron (ppm)            | 0510     | 33.00    | 0.0000 |               |           |        | 3       |                  | 017.43      | 0    |
| 017          | Boron (ppm)            | 0407     | 33.99    | 0.7113 |               |           |        | 3       |                  | 017.41      | 0    |
| 017          | Boron (ppm)            | 0918     | 34.31    | 0.3400 |               |           |        | 3       |                  | 017.43      | 0    |
| 019          | Calcium (%)            | 2232     | 0.2270   | 0.0120 | 0.2618        | 0.0127    | 0.0065 | 31      | -2.73            | 019.44      | 0    |
| 019          | Calcium (%)            | 0242     | 0.2300   | 0.0000 | 0.2618        | 0.0127    | 0.0065 | 31      | -2.50            | 019.99      | 0    |
| 019          | Calcium (%)            | 0510     | 0.2400   | 0.0000 | 0.2618        | 0.0127    | 0.0065 | 31      | -1.71            | 019.43      | 0    |
| 019          | Calcium (%)            | 0065     | 0.2450   | 0.0100 | 0.2618        | 0.0127    | 0.0065 | 31      | -1.32            | 019.44      | 0    |
| 019          | Calcium (%)            | 0529     | 0.2500   | 0.0200 | 0.2618        | 0.0127    | 0.0065 | 31      | -0.93            | 019.31      | 0    |
| 019          | Calcium (%)            | 0656     | 0.2500   | 0.0000 | 0.2618        | 0.0127    | 0.0065 | 31      | -0.93            | 019.31      | 0    |
| 019          | Calcium (%)            | 0918     | 0.2500   | 0.0180 | 0.2618        | 0.0127    | 0.0065 | 31      | -0.93            | 019.43      | 0    |
| 019          | Calcium (%)            | 0051     | 0.2528   | 0.0003 | 0.2618        | 0.0127    | 0.0065 | 31      | -0.71            | 019.41      | 0    |
| 019          | Calcium (%)            | 0553     | 0.2550   | 0.0100 | 0.2618        | 0.0127    | 0.0065 | 31      | -0.54            | 019.53      | 0    |
| 019          | Calcium (%)            | 2136     | 0.2590   | 0.0080 | 0.2618        | 0.0127    | 0.0065 | 31      | -0.22            | 019.43      | 0    |
| 019          | Calcium (%)            | 0074     | 0.2600   | 0.0000 | 0.2618        | 0.0127    | 0.0065 | 31      | -0.14            | 019.41      | 0    |
| 019          | Calcium (%)            | 0171     | 0.2600   | 0.0000 | 0.2618        | 0.0127    | 0.0065 | 31      | -0.14            | 019.41      | 0    |
| 019          | Calcium (%)            | 2156     | 0.2600   | 0.0000 | 0.2618        | 0.0127    | 0.0065 | 31      | -0.14            | 019.44      | 0    |

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 019          | Calcium (%)           | 2252     | 0.2600   | 0.0000 | 0.2618        | 0.0127    | 0.0065 | 31      | -0.14            | 019.44      | 0    |
| 019          | Calcium (%)           | 0407     | 0.2617   | 0.0007 | 0.2618        | 0.0127    | 0.0065 | 31      | -0.02            | 019.41      | 0    |
| 019          | Calcium (%)           | 0870     | 0.2622   | 0.0185 | 0.2618        | 0.0127    | 0.0065 | 31      | 0.02             | 019.42      | 0    |
| 019          | Calcium (%)           | 0619     | 0.2625   | 0.0050 | 0.2618        | 0.0127    | 0.0065 | 31      | 0.05             | 019.99      | 0    |
| 019          | Calcium (%)           | 0042     | 0.2635   | 0.0050 | 0.2618        | 0.0127    | 0.0065 | 31      | 0.13             | 019.43      | 0    |
| 019          | Calcium (%)           | 0208     | 0.2650   | 0.0220 | 0.2618        | 0.0127    | 0.0065 | 31      | 0.25             | 019.41      | 0    |
| 019          | Calcium (%)           | 2207     | 0.2650   | 0.0100 | 0.2618        | 0.0127    | 0.0065 | 31      | 0.25             | 019.42      | 0    |
| 019          | Calcium (%)           | 2220     | 0.2650   | 0.0100 | 0.2618        | 0.0127    | 0.0065 | 31      | 0.25             | 019.44      | 0    |
| 019          | Calcium (%)           | 0202     | 0.2685   | 0.0010 | 0.2618        | 0.0127    | 0.0065 | 31      | 0.52             | 019.43      | 0    |
| 019          | Calcium (%)           | 0098     | 0.2700   | 0.0000 | 0.2618        | 0.0127    | 0.0065 | 31      | 0.64             | 019.41      | 0    |
| 019          | Calcium (%)           | 0098     | 0.2700   | 0.0000 | 0.2618        | 0.0127    | 0.0065 | 31      | 0.64             | 019.43      | 0    |
| 019          | Calcium (%)           | 2089     | 0.2700   | 0.0000 | 0.2618        | 0.0127    | 0.0065 | 31      | 0.64             | 019.43      | 0    |
| 019          | Calcium (%)           | 2124     | 0.2700   | 0.0000 | 0.2618        | 0.0127    | 0.0065 | 31      | 0.64             | 019.43      | 0    |
| 019          | Calcium (%)           | 0001     | 0.2721   | 0.0001 | 0.2618        | 0.0127    | 0.0065 | 31      | 0.80             | 019.31      | 0    |
| 019          | Calcium (%)           | 2219     | 0.2800   | 0.0200 | 0.2618        | 0.0127    | 0.0065 | 31      | 1.42             | 019.44      | 0    |
| 019          | Calcium (%)           | 2293     | 0.2800   | 0.0200 | 0.2618        | 0.0127    | 0.0065 | 31      | 1.42             | 019.44      | 0    |
| 019          | Calcium (%)           | 2115     | 0.2900   | 0.0000 | 0.2618        | 0.0127    | 0.0065 | 31      | 2.21             | 019.31      | 0    |
| 019          | Calcium (%)           | 0003     | 0.2950   | 0.0100 | 0.2618        | 0.0127    | 0.0065 | 31      | 2.60             | 019.41      | 0    |
| 019          | Calcium (%)           | 0164     | 0.2835   | 0.0410 | 0.2618        | 0.0127    | 0.0065 | 31      | 1.70             | 019.41      | 1    |
| 021          | Cobalt (ppm)          | 0171     | 0.0470   | 0.0020 | 0.0955        | 0.0525    | 0.0016 | 4       |                  | 021.41      | 0    |
| 021          | Cobalt (ppm)          | 0553     | 0.0788   | 0.0016 | 0.0955        | 0.0525    | 0.0016 | 4       |                  | 021.53      | 0    |
| 021          | Cobalt (ppm)          | 0918     | 0.0860   | 0.0026 | 0.0955        | 0.0525    | 0.0016 | 4       |                  | 021.53      | 0    |
| 021          | Cobalt (ppm)          | 0510     | 0.1700   | 0.0000 | 0.0955        | 0.0525    | 0.0016 | 4       |                  | 021.43      | 0    |
| 021          | Cobalt (ppm)          | 0407     | 0.2437   | 0.0088 | 0.0955        | 0.0525    | 0.0016 | 4       |                  | 021.41      | 1    |
| 021          | Cobalt (ppm)          | 0164     | < 0.75   |        | 0.0955        | 0.0525    | 0.0016 | 4       |                  | 021.31      | 5    |
| 022          | Copper (ppm)          | 0407     | 12.28    | 0.2480 | 14.21         | 1.222     | 0.4985 | 23      | -1.58            | 022.41      | 0    |
| 022          | Copper (ppm)          | 2136     | 12.60    | 0.2000 | 14.21         | 1.222     | 0.4985 | 23      | -1.32            | 022.43      | 0    |
| 022          | Copper (ppm)          | 0510     | 13.00    | 0.0000 | 14.21         | 1.222     | 0.4985 | 23      | -0.99            | 022.43      | 0    |
| 022          | Copper (ppm)          | 0098     | 13.19    | 0.2600 | 14.21         | 1.222     | 0.4985 | 23      | -0.84            | 022.43      | 0    |
| 022          | Copper (ppm)          | 0918     | 13.31    | 0.1700 | 14.21         | 1.222     | 0.4985 | 23      | -0.74            | 022.43      | 0    |
| 022          | Copper (ppm)          | 0202     | 13.37    | 1.070  | 14.21         | 1.222     | 0.4985 | 23      | -0.69            | 022.43      | 0    |
| 022          | Copper (ppm)          | 0164     | 13.50    | 1.000  | 14.21         | 1.222     | 0.4985 | 23      | -0.58            | 022.41      | 0    |
| 022          | Copper (ppm)          | 0242     | 13.50    | 1.000  | 14.21         | 1.222     | 0.4985 | 23      | -0.58            | 022.99      | 0    |
| 022          | Copper (ppm)          | 0171     | 13.79    | 0.3900 | 14.21         | 1.222     | 0.4985 | 23      | -0.35            | 022.41      | 0    |
| 022          | Copper (ppm)          | 0619     | 13.80    | 0.0000 | 14.21         | 1.222     | 0.4985 | 23      | -0.34            | 022.99      | 0    |
| 022          | Copper (ppm)          | 0553     | 13.90    | 0.0000 | 14.21         | 1.222     | 0.4985 | 23      | -0.26            | 022.53      | 0    |
| 022          | Copper (ppm)          | 0074     | 14.00    | 0.0000 | 14.21         | 1.222     | 0.4985 | 23      | -0.17            | 022.41      | 0    |
| 022          | Copper (ppm)          | 0208     | 14.36    | 1.370  | 14.21         | 1.222     | 0.4985 | 23      | 0.12             | 022.41      | 0    |
| 022          | Copper (ppm)          | 0098     | 14.37    | 0.2600 | 14.21         | 1.222     | 0.4985 | 23      | 0.13             | 022.41      | 0    |
| 022          | Copper (ppm)          | 0010     | 14.60    | 0.0000 | 14.21         | 1.222     | 0.4985 | 23      | 0.32             | 022.33      | 0    |
| 022          | Copper (ppm)          | 0051     | 14.64    | 0.1500 | 14.21         | 1.222     | 0.4985 | 23      | 0.34             | 022.41      | 0    |
| 022          | Copper (ppm)          | 2124     | 14.84    | 0.2800 | 14.21         | 1.222     | 0.4985 | 23      | 0.51             | 022.43      | 0    |



| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT | Your   | Flag |
|--------------|-----------------------|----------|----------|--------|---------------|-----------|--------|---------|----------|--------|------|
|              |                       |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests | Z Score  | Method |      |
| 022          | Copper (ppm)          | 0003     | 15.00    | 0.0000 | 14.21         | 1.222     | 0.4985 | 23      | 0.64     | 022.41 | 0    |
| 022          | Copper (ppm)          | 0870     | 15.15    | 0.3600 | 14.21         | 1.222     | 0.4985 | 23      | 0.77     | 022.42 | 0    |
| 022          | Copper (ppm)          | 2207     | 15.50    | 1.000  | 14.21         | 1.222     | 0.4985 | 23      | 1.05     | 022.42 | 0    |
| 022          | Copper (ppm)          | 0042     | 16.50    | 2.000  | 14.21         | 1.222     | 0.4985 | 23      | 1.87     | 022.43 | 0    |
| 022          | Copper (ppm)          | 2115     | 16.55    | 0.8580 | 14.21         | 1.222     | 0.4985 | 23      | 1.91     | 022.31 | 0    |
| 022          | Copper (ppm)          | 2089     | 17.15    | 0.8500 | 14.21         | 1.222     | 0.4985 | 23      | 2.40     | 022.43 | 0    |
| 022          | Copper (ppm)          | 0529     | 14.30    | 4.000  | 14.21         | 1.222     | 0.4985 | 23      | 0.07     | 022.31 | 1    |
| 022          | Copper (ppm)          | 0656     | < 20.2   |        | 14.21         | 1.222     | 0.4985 | 23      |          | 022.31 | 5    |
| 025          | Iron (ppm)            | 0001     | 89.53    | 1.390  | 103.6         | 5.517     | 6.230  | 22      | -2.55    | 025.31 | 0    |
| 025          | Iron (ppm)            | 0242     | 96.50    | 5.000  | 103.6         | 5.517     | 6.230  | 22      | -1.29    | 025.99 | 0    |
| 025          | Iron (ppm)            | 0510     | 98.00    | 0.0000 | 103.6         | 5.517     | 6.230  | 22      | -1.02    | 025.43 | 0    |
| 025          | Iron (ppm)            | 0656     | 98.83    | 0.0000 | 103.6         | 5.517     | 6.230  | 22      | -0.87    | 025.31 | 0    |
| 025          | Iron (ppm)            | 0051     | 101.0    | 0.0000 | 103.6         | 5.517     | 6.230  | 22      | -0.47    | 025.41 | 0    |
| 025          | Iron (ppm)            | 0918     | 101.2    | 2.010  | 103.6         | 5.517     | 6.230  | 22      | -0.44    | 025.43 | 0    |
| 025          | Iron (ppm)            | 2136     | 101.3    | 7.400  | 103.6         | 5.517     | 6.230  | 22      | -0.42    | 025.43 | 0    |
| 025          | Iron (ppm)            | 0074     | 101.5    | 1.000  | 103.6         | 5.517     | 6.230  | 22      | -0.38    | 025.41 | 0    |
| 025          | Iron (ppm)            | 0619     | 101.5    | 2.506  | 103.6         | 5.517     | 6.230  | 22      | -0.38    | 025.99 | 0    |
| 025          | Iron (ppm)            | 0171     | 101.6    | 0.8000 | 103.6         | 5.517     | 6.230  | 22      | -0.37    | 025.41 | 0    |
| 025          | Iron (ppm)            | 0553     | 103.0    | 4.000  | 103.6         | 5.517     | 6.230  | 22      | -0.11    | 025.53 | 0    |
| 025          | Iron (ppm)            | 0870     | 103.1    | 5.600  | 103.6         | 5.517     | 6.230  | 22      | -0.09    | 025.42 | 0    |
| 025          | Iron (ppm)            | 0407     | 103.4    | 7.510  | 103.6         | 5.517     | 6.230  | 22      | -0.03    | 025.41 | 0    |
| 025          | Iron (ppm)            | 2207     | 103.5    | 5.000  | 103.6         | 5.517     | 6.230  | 22      | -0.02    | 025.42 | 0    |
| 025          | Iron (ppm)            | 0164     | 104.0    | 0.0000 | 103.6         | 5.517     | 6.230  | 22      | 0.07     | 025.41 | 0    |
| 025          | Iron (ppm)            | 0098     | 105.0    | 4.000  | 103.6         | 5.517     | 6.230  | 22      | 0.25     | 025.41 | 0    |
| 025          | Iron (ppm)            | 0098     | 105.8    | 7.700  | 103.6         | 5.517     | 6.230  | 22      | 0.39     | 025.43 | 0    |
| 025          | Iron (ppm)            | 0208     | 107.8    | 7.800  | 103.6         | 5.517     | 6.230  | 22      | 0.76     | 025.41 | 0    |
| 025          | Iron (ppm)            | 2124     | 111.5    | 7.000  | 103.6         | 5.517     | 6.230  | 22      | 1.43     | 025.43 | 0    |
| 025          | Iron (ppm)            | 0529     | 113.0    | 12.20  | 103.6         | 5.517     | 6.230  | 22      | 1.70     | 025.31 | 0    |
| 025          | Iron (ppm)            | 0003     | 130.0    | 48.00  | 103.6         | 5.517     | 6.230  | 22      | 4.78     | 025.41 | 0    |
| 025          | Iron (ppm)            | 2115     | 130.4    | 8.136  | 103.6         | 5.517     | 6.230  | 22      | 4.85     | 025.31 | 0    |
| 025          | Iron (ppm)            | 2089     | 301.8    | 57.21  | 103.6         | 5.517     | 6.230  | 22      | 35.91    | 025.43 | 2    |
| 027          | Magnesium (%)         | 2232     | 0.2330   | 0.0080 | 0.2648        | 0.0119    | 0.0047 | 30      | -2.67    | 027.41 | 0    |
| 027          | Magnesium (%)         | 0510     | 0.2450   | 0.0100 | 0.2648        | 0.0119    | 0.0047 | 30      | -1.66    | 027.43 | 0    |
| 027          | Magnesium (%)         | 0202     | 0.2500   | 0.0040 | 0.2648        | 0.0119    | 0.0047 | 30      | -1.24    | 027.43 | 0    |
| 027          | Magnesium (%)         | 0242     | 0.2500   | 0.0000 | 0.2648        | 0.0119    | 0.0047 | 30      | -1.24    | 027.99 | 0    |
| 027          | Magnesium (%)         | 0407     | 0.2519   | 0.0060 | 0.2648        | 0.0119    | 0.0047 | 30      | -1.08    | 027.41 | 0    |
| 027          | Magnesium (%)         | 0065     | 0.2550   | 0.0100 | 0.2648        | 0.0119    | 0.0047 | 30      | -0.82    | 027.44 | 0    |
| 027          | Magnesium (%)         | 0918     | 0.2570   | 0.0060 | 0.2648        | 0.0119    | 0.0047 | 30      | -0.65    | 027.43 | 0    |
| 027          | Magnesium (%)         | 2252     | 0.2570   | 0.0060 | 0.2648        | 0.0119    | 0.0047 | 30      | -0.65    | 027.44 | 0    |
| 027          | Magnesium (%)         | 2220     | 0.2580   | 0.0020 | 0.2648        | 0.0119    | 0.0047 | 30      | -0.57    | 027.44 | 0    |
| 027          | Magnesium (%)         | 0051     | 0.2593   | 0.0015 | 0.2648        | 0.0119    | 0.0047 | 30      | -0.46    | 027.41 | 0    |
| 027          | Magnesium (%)         | 2219     | 0.2600   | 0.0020 | 0.2648        | 0.0119    | 0.0047 | 30      | -0.40    | 027.44 | 0    |

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 027          | Magnesium (%)         | 0529     | 0.2615   | 0.0070 | 0.2648        | 0.0119    | 0.0047 | 30      | -0.27            | 027.31      | 0    |
| 027          | Magnesium (%)         | 0870     | 0.2619   | 0.0152 | 0.2648        | 0.0119    | 0.0047 | 30      | -0.24            | 027.42      | 0    |
| 027          | Magnesium (%)         | 2156     | 0.2640   | 0.0000 | 0.2648        | 0.0119    | 0.0047 | 30      | -0.07            | 027.44      | 0    |
| 027          | Magnesium (%)         | 2293     | 0.2645   | 0.0010 | 0.2648        | 0.0119    | 0.0047 | 30      | -0.02            | 027.44      | 0    |
| 027          | Magnesium (%)         | 0074     | 0.2650   | 0.0000 | 0.2648        | 0.0119    | 0.0047 | 30      | 0.02             | 027.41      | 0    |
| 027          | Magnesium (%)         | 0098     | 0.2650   | 0.0100 | 0.2648        | 0.0119    | 0.0047 | 30      | 0.02             | 027.43      | 0    |
| 027          | Magnesium (%)         | 0164     | 0.2675   | 0.0090 | 0.2648        | 0.0119    | 0.0047 | 30      | 0.23             | 027.41      | 0    |
| 027          | Magnesium (%)         | 2136     | 0.2690   | 0.0080 | 0.2648        | 0.0119    | 0.0047 | 30      | 0.35             | 027.43      | 0    |
| 027          | Magnesium (%)         | 0001     | 0.2691   | 0.0018 | 0.2648        | 0.0119    | 0.0047 | 30      | 0.36             | 027.31      | 0    |
| 027          | Magnesium (%)         | 2207     | 0.2700   | 0.0000 | 0.2648        | 0.0119    | 0.0047 | 30      | 0.44             | 027.42      | 0    |
| 027          | Magnesium (%)         | 2089     | 0.2700   | 0.0000 | 0.2648        | 0.0119    | 0.0047 | 30      | 0.44             | 027.43      | 0    |
| 027          | Magnesium (%)         | 2124     | 0.2700   | 0.0000 | 0.2648        | 0.0119    | 0.0047 | 30      | 0.44             | 027.43      | 0    |
| 027          | Magnesium (%)         | 0619     | 0.2755   | 0.0030 | 0.2648        | 0.0119    | 0.0047 | 30      | 0.90             | 027.99      | 0    |
| 027          | Magnesium (%)         | 2115     | 0.2760   | 0.0020 | 0.2648        | 0.0119    | 0.0047 | 30      | 0.94             | 027.31      | 0    |
| 027          | Magnesium (%)         | 0553     | 0.2760   | 0.0080 | 0.2648        | 0.0119    | 0.0047 | 30      | 0.94             | 027.53      | 0    |
| 027          | Magnesium (%)         | 0003     | 0.2800   | 0.0000 | 0.2648        | 0.0119    | 0.0047 | 30      | 1.28             | 027.41      | 0    |
| 027          | Magnesium (%)         | 0208     | 0.2810   | 0.0020 | 0.2648        | 0.0119    | 0.0047 | 30      | 1.36             | 027.41      | 0    |
| 027          | Magnesium (%)         | 0098     | 0.2850   | 0.0100 | 0.2648        | 0.0119    | 0.0047 | 30      | 1.70             | 027.41      | 0    |
| 027          | Magnesium (%)         | 0042     | 0.2925   | 0.0070 | 0.2648        | 0.0119    | 0.0047 | 30      | 2.33             | 027.43      | 0    |
| 027          | Magnesium (%)         | 0171     | 0.2300   | 0.0400 | 0.2648        | 0.0119    | 0.0047 | 30      | -2.92            | 027.41      | 1    |
| 028          | Manganese (ppm)       | 0510     | 25.00    | 0.0000 | 28.72         | 2.207     | 0.6752 | 23      | -1.69            | 028.43      | 0    |
| 028          | Manganese (ppm)       | 0529     | 25.75    | 0.5000 | 28.72         | 2.207     | 0.6752 | 23      | -1.35            | 028.31      | 0    |
| 028          | Manganese (ppm)       | 0242     | 26.50    | 1.000  | 28.72         | 2.207     | 0.6752 | 23      | -1.01            | 028.99      | 0    |
| 028          | Manganese (ppm)       | 0619     | 26.85    | 0.3000 | 28.72         | 2.207     | 0.6752 | 23      | -0.85            | 028.99      | 0    |
| 028          | Manganese (ppm)       | 0074     | 27.00    | 0.0000 | 28.72         | 2.207     | 0.6752 | 23      | -0.78            | 028.41      | 0    |
| 028          | Manganese (ppm)       | 2136     | 27.10    | 1.600  | 28.72         | 2.207     | 0.6752 | 23      | -0.73            | 028.43      | 0    |
| 028          | Manganese (ppm)       | 0870     | 27.20    | 0.7900 | 28.72         | 2.207     | 0.6752 | 23      | -0.69            | 028.42      | 0    |
| 028          | Manganese (ppm)       | 0656     | 27.39    | 0.0000 | 28.72         | 2.207     | 0.6752 | 23      | -0.60            | 028.31      | 0    |
| 028          | Manganese (ppm)       | 0171     | 27.50    | 0.0000 | 28.72         | 2.207     | 0.6752 | 23      | -0.55            | 028.41      | 0    |
| 028          | Manganese (ppm)       | 0918     | 27.82    | 0.1800 | 28.72         | 2.207     | 0.6752 | 23      | -0.41            | 028.43      | 0    |
| 028          | Manganese (ppm)       | 0051     | 28.00    | 0.1500 | 28.72         | 2.207     | 0.6752 | 23      | -0.33            | 028.41      | 0    |
| 028          | Manganese (ppm)       | 0553     | 28.60    | 0.2000 | 28.72         | 2.207     | 0.6752 | 23      | -0.05            | 028.53      | 0    |
| 028          | Manganese (ppm)       | 0208     | 29.13    | 1.800  | 28.72         | 2.207     | 0.6752 | 23      | 0.19             | 028.41      | 0    |
| 028          | Manganese (ppm)       | 0407     | 29.16    | 0.2766 | 28.72         | 2.207     | 0.6752 | 23      | 0.20             | 028.41      | 0    |
| 028          | Manganese (ppm)       | 0164     | 30.00    | 2.000  | 28.72         | 2.207     | 0.6752 | 23      | 0.58             | 028.41      | 0    |
| 028          | Manganese (ppm)       | 0098     | 30.27    | 0.6200 | 28.72         | 2.207     | 0.6752 | 23      | 0.70             | 028.43      | 0    |
| 028          | Manganese (ppm)       | 2124     | 30.34    | 0.0300 | 28.72         | 2.207     | 0.6752 | 23      | 0.73             | 028.43      | 0    |
| 028          | Manganese (ppm)       | 0098     | 30.37    | 1.740  | 28.72         | 2.207     | 0.6752 | 23      | 0.75             | 028.41      | 0    |
| 028          | Manganese (ppm)       | 2089     | 30.67    | 1.030  | 28.72         | 2.207     | 0.6752 | 23      | 0.88             | 028.43      | 0    |
| 028          | Manganese (ppm)       | 2115     | 31.00    | 0.0440 | 28.72         | 2.207     | 0.6752 | 23      | 1.03             | 028.31      | 0    |
| 028          | Manganese (ppm)       | 2207     | 31.00    | 2.000  | 28.72         | 2.207     | 0.6752 | 23      | 1.03             | 028.42      | 0    |
| 028          | Manganese (ppm)       | 0003     | 31.50    | 1.000  | 28.72         | 2.207     | 0.6752 | 23      | 1.26             | 028.41      | 0    |

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 028          | Manganese (ppm)       | 0202     | 34.46    | 0.2700 | 28.72         | 2.207     | 0.6752 | 23      | 2.60             | 028.43      | 0    |
| 028          | Manganese (ppm)       | 0042     | 31.95    | 4.700  | 28.72         | 2.207     | 0.6752 | 23      | 1.46             | 028.43      | 1    |
| 031          | Phosphorus (%)        | 2232     | 0.5705   | 0.0250 | 0.6699        | 0.0321    | 0.0131 | 33      | -3.09            | 031.41      | 0    |
| 031          | Phosphorus (%)        | 0242     | 0.5950   | 0.0100 | 0.6699        | 0.0321    | 0.0131 | 33      | -2.33            | 031.99      | 0    |
| 031          | Phosphorus (%)        | 0202     | 0.6060   | 0.0340 | 0.6699        | 0.0321    | 0.0131 | 33      | -1.99            | 031.43      | 0    |
| 031          | Phosphorus (%)        | 0065     | 0.6200   | 0.0200 | 0.6699        | 0.0321    | 0.0131 | 33      | -1.55            | 031.44      | 0    |
| 031          | Phosphorus (%)        | 2220     | 0.6400   | 0.0200 | 0.6699        | 0.0321    | 0.0131 | 33      | -0.93            | 031.44      | 0    |
| 031          | Phosphorus (%)        | 2252     | 0.6400   | 0.0200 | 0.6699        | 0.0321    | 0.0131 | 33      | -0.93            | 031.44      | 0    |
| 031          | Phosphorus (%)        | 0870     | 0.6444   | 0.0260 | 0.6699        | 0.0321    | 0.0131 | 33      | -0.79            | 031.42      | 0    |
| 031          | Phosphorus (%)        | 2156     | 0.6450   | 0.0100 | 0.6699        | 0.0321    | 0.0131 | 33      | -0.78            | 031.44      | 0    |
| 031          | Phosphorus (%)        | 2219     | 0.6450   | 0.0100 | 0.6699        | 0.0321    | 0.0131 | 33      | -0.78            | 031.44      | 0    |
| 031          | Phosphorus (%)        | 2293     | 0.6550   | 0.0100 | 0.6699        | 0.0321    | 0.0131 | 33      | -0.46            | 031.44      | 0    |
| 031          | Phosphorus (%)        | 2136     | 0.6585   | 0.0070 | 0.6699        | 0.0321    | 0.0131 | 33      | -0.36            | 031.43      | 0    |
| 031          | Phosphorus (%)        | 0529     | 0.6600   | 0.0000 | 0.6699        | 0.0321    | 0.0131 | 33      | -0.31            | 031.01      | 0    |
| 031          | Phosphorus (%)        | 0042     | 0.6625   | 0.0250 | 0.6699        | 0.0321    | 0.0131 | 33      | -0.23            | 031.43      | 0    |
| 031          | Phosphorus (%)        | 0001     | 0.6650   | 0.0260 | 0.6699        | 0.0321    | 0.0131 | 33      | -0.15            | 031.43      | 0    |
| 031          | Phosphorus (%)        | 0051     | 0.6665   | 0.0021 | 0.6699        | 0.0321    | 0.0131 | 33      | -0.11            | 031.41      | 0    |
| 031          | Phosphorus (%)        | 2115     | 0.6700   | 0.0000 | 0.6699        | 0.0321    | 0.0131 | 33      | 0.00             | 031.01      | 0    |
| 031          | Phosphorus (%)        | 0208     | 0.6710   | 0.0000 | 0.6699        | 0.0321    | 0.0131 | 33      | 0.03             | 031.01      | 0    |
| 031          | Phosphorus (%)        | 0164     | 0.6720   | 0.0080 | 0.6699        | 0.0321    | 0.0131 | 33      | 0.06             | 031.41      | 0    |
| 031          | Phosphorus (%)        | 0407     | 0.6764   | 0.0081 | 0.6699        | 0.0321    | 0.0131 | 33      | 0.20             | 031.41      | 0    |
| 031          | Phosphorus (%)        | 0918     | 0.6770   | 0.0080 | 0.6699        | 0.0321    | 0.0131 | 33      | 0.22             | 031.43      | 0    |
| 031          | Phosphorus (%)        | 0656     | 0.6800   | 0.0000 | 0.6699        | 0.0321    | 0.0131 | 33      | 0.31             | 031.01      | 0    |
| 031          | Phosphorus (%)        | 0171     | 0.6800   | 0.0000 | 0.6699        | 0.0321    | 0.0131 | 33      | 0.31             | 031.41      | 0    |
| 031          | Phosphorus (%)        | 0001     | 0.6834   | 0.0143 | 0.6699        | 0.0321    | 0.0131 | 33      | 0.42             | 031.03      | 0    |
| 031          | Phosphorus (%)        | 2207     | 0.6850   | 0.0100 | 0.6699        | 0.0321    | 0.0131 | 33      | 0.47             | 031.42      | 0    |
| 031          | Phosphorus (%)        | 0208     | 0.6925   | 0.0210 | 0.6699        | 0.0321    | 0.0131 | 33      | 0.70             | 031.41      | 0    |
| 031          | Phosphorus (%)        | 0074     | 0.6985   | 0.0110 | 0.6699        | 0.0321    | 0.0131 | 33      | 0.89             | 031.41      | 0    |
| 031          | Phosphorus (%)        | 0510     | 0.7000   | 0.0000 | 0.6699        | 0.0321    | 0.0131 | 33      | 0.94             | 031.43      | 0    |
| 031          | Phosphorus (%)        | 0098     | 0.7032   | 0.0015 | 0.6699        | 0.0321    | 0.0131 | 33      | 1.03             | 031.43      | 0    |
| 031          | Phosphorus (%)        | 2089     | 0.7050   | 0.0300 | 0.6699        | 0.0321    | 0.0131 | 33      | 1.09             | 031.43      | 0    |
| 031          | Phosphorus (%)        | 2124     | 0.7050   | 0.0100 | 0.6699        | 0.0321    | 0.0131 | 33      | 1.09             | 031.43      | 0    |
| 031          | Phosphorus (%)        | 0553     | 0.7105   | 0.0230 | 0.6699        | 0.0321    | 0.0131 | 33      | 1.26             | 031.53      | 0    |
| 031          | Phosphorus (%)        | 0098     | 0.7111   | 0.0278 | 0.6699        | 0.0321    | 0.0131 | 33      | 1.28             | 031.41      | 0    |
| 031          | Phosphorus (%)        | 0619     | 0.7665   | 0.0130 | 0.6699        | 0.0321    | 0.0131 | 33      | 3.01             | 031.99      | 0    |
| 031          | Phosphorus (%)        | 0003     | 0.9100   | 0.1000 | 0.6699        | 0.0321    | 0.0131 | 33      | 7.47             | 031.41      | 1    |
| 032          | Potassium (%)         | 2232     | 1.764    | 0.0610 | 2.019         | 0.0910    | 0.0411 | 31      | -2.80            | 032.41      | 0    |
| 032          | Potassium (%)         | 0003     | 1.825    | 0.0100 | 2.019         | 0.0910    | 0.0411 | 31      | -2.13            | 032.41      | 0    |
| 032          | Potassium (%)         | 0529     | 1.870    | 0.0600 | 2.019         | 0.0910    | 0.0411 | 31      | -1.63            | 032.31      | 0    |
| 032          | Potassium (%)         | 0918     | 1.911    | 0.0940 | 2.019         | 0.0910    | 0.0411 | 31      | -1.18            | 032.43      | 0    |
| 032          | Potassium (%)         | 0242     | 1.920    | 0.0400 | 2.019         | 0.0910    | 0.0411 | 31      | -1.08            | 032.99      | 0    |
| 032          | Potassium (%)         | 2089     | 1.930    | 0.0000 | 2.019         | 0.0910    | 0.0411 | 31      | -0.97            | 032.43      | 0    |

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 032          | Potassium (%)         | 2136     | 1.945    | 0.0100 | 2.019         | 0.0910    | 0.0411 | 31      | -0.81            | 032.43      | 0    |
| 032          | Potassium (%)         | 0065     | 1.955    | 0.0300 | 2.019         | 0.0910    | 0.0411 | 31      | -0.70            | 032.44      | 0    |
| 032          | Potassium (%)         | 2252     | 1.960    | 0.0600 | 2.019         | 0.0910    | 0.0411 | 31      | -0.64            | 032.44      | 0    |
| 032          | Potassium (%)         | 2220     | 1.975    | 0.0300 | 2.019         | 0.0910    | 0.0411 | 31      | -0.48            | 032.44      | 0    |
| 032          | Potassium (%)         | 0870     | 1.979    | 0.0940 | 2.019         | 0.0910    | 0.0411 | 31      | -0.44            | 032.42      | 0    |
| 032          | Potassium (%)         | 2219     | 1.980    | 0.0400 | 2.019         | 0.0910    | 0.0411 | 31      | -0.42            | 032.44      | 0    |
| 032          | Potassium (%)         | 2156     | 2.005    | 0.0300 | 2.019         | 0.0910    | 0.0411 | 31      | -0.15            | 032.44      | 0    |
| 032          | Potassium (%)         | 0098     | 2.010    | 0.0800 | 2.019         | 0.0910    | 0.0411 | 31      | -0.10            | 032.43      | 0    |
| 032          | Potassium (%)         | 0510     | 2.020    | 0.0000 | 2.019         | 0.0910    | 0.0411 | 31      | 0.01             | 032.43      | 0    |
| 032          | Potassium (%)         | 2293     | 2.020    | 0.0600 | 2.019         | 0.0910    | 0.0411 | 31      | 0.01             | 032.44      | 0    |
| 032          | Potassium (%)         | 0202     | 2.035    | 0.0700 | 2.019         | 0.0910    | 0.0411 | 31      | 0.18             | 032.43      | 0    |
| 032          | Potassium (%)         | 2207     | 2.040    | 0.0000 | 2.019         | 0.0910    | 0.0411 | 31      | 0.23             | 032.42      | 0    |
| 032          | Potassium (%)         | 0001     | 2.045    | 0.0120 | 2.019         | 0.0910    | 0.0411 | 31      | 0.29             | 032.99      | 0    |
| 032          | Potassium (%)         | 0171     | 2.060    | 0.0000 | 2.019         | 0.0910    | 0.0411 | 31      | 0.45             | 032.41      | 0    |
| 032          | Potassium (%)         | 0164     | 2.065    | 0.0700 | 2.019         | 0.0910    | 0.0411 | 31      | 0.51             | 032.41      | 0    |
| 032          | Potassium (%)         | 0074     | 2.070    | 0.0600 | 2.019         | 0.0910    | 0.0411 | 31      | 0.56             | 032.41      | 0    |
| 032          | Potassium (%)         | 0407     | 2.090    | 0.0725 | 2.019         | 0.0910    | 0.0411 | 31      | 0.79             | 032.41      | 0    |
| 032          | Potassium (%)         | 0010     | 2.095    | 0.0300 | 2.019         | 0.0910    | 0.0411 | 31      | 0.84             | 032.43      | 0    |
| 032          | Potassium (%)         | 0042     | 2.095    | 0.0300 | 2.019         | 0.0910    | 0.0411 | 31      | 0.84             | 032.43      | 0    |
| 032          | Potassium (%)         | 0553     | 2.105    | 0.0500 | 2.019         | 0.0910    | 0.0411 | 31      | 0.95             | 032.53      | 0    |
| 032          | Potassium (%)         | 0051     | 2.107    | 0.0105 | 2.019         | 0.0910    | 0.0411 | 31      | 0.97             | 032.41      | 0    |
| 032          | Potassium (%)         | 2124     | 2.110    | 0.0200 | 2.019         | 0.0910    | 0.0411 | 31      | 1.00             | 032.43      | 0    |
| 032          | Potassium (%)         | 0619     | 2.110    | 0.0200 | 2.019         | 0.0910    | 0.0411 | 31      | 1.00             | 032.99      | 0    |
| 032          | Potassium (%)         | 2115     | 2.140    | 0.0800 | 2.019         | 0.0910    | 0.0411 | 31      | 1.33             | 032.31      | 0    |
| 032          | Potassium (%)         | 0098     | 2.195    | 0.0500 | 2.019         | 0.0910    | 0.0411 | 31      | 1.94             | 032.41      | 0    |
| 032          | Potassium (%)         | 0208     | 2.183    | 0.1960 | 2.019         | 0.0910    | 0.0411 | 31      | 1.80             | 032.41      | 1    |
| 033          | Salt as chloride (%)  | 0171     | 0.0185   | 0.0010 | 0.0356        | 0.0225    | 0.0048 | 5       |                  | 033.05      | 0    |
| 033          | Salt as chloride (%)  | 0098     | 0.0250   | 0.0100 | 0.0356        | 0.0225    | 0.0048 | 5       |                  | 033.01      | 0    |
| 033          | Salt as chloride (%)  | 0407     | 0.0295   | 0.0030 | 0.0356        | 0.0225    | 0.0048 | 5       |                  | 033.01      | 0    |
| 033          | Salt as chloride (%)  | 0242     | 0.0300   | 0.0000 | 0.0356        | 0.0225    | 0.0048 | 5       |                  | 033.01      | 0    |
| 033          | Salt as chloride (%)  | 0510     | 0.0750   | 0.0100 | 0.0356        | 0.0225    | 0.0048 | 5       |                  | 033.01      | 0    |
| 033          | Salt as chloride (%)  | 0309     | < 0.1    |        | 0.0356        | 0.0225    | 0.0048 | 5       |                  | 033.00      | 5    |
| 033          | Salt as chloride (%)  | 0164     | < 0.1    |        | 0.0356        | 0.0225    | 0.0048 | 5       |                  | 033.01      | 5    |
| 034          | Selenium (ppm)        | 2207     | 0.1000   | 0.0000 | 0.2407        | 0.1133    | 0.0090 | 9       | -1.24            | 034.52      | 0    |
| 034          | Selenium (ppm)        | 0407     | 0.1300   | 0.0200 | 0.2407        | 0.1133    | 0.0090 | 9       | -0.98            | 034.41      | 0    |
| 034          | Selenium (ppm)        | 0619     | 0.1930   | 0.0080 | 0.2407        | 0.1133    | 0.0090 | 9       | -0.42            | 034.41      | 0    |
| 034          | Selenium (ppm)        | 0171     | 0.2110   | 0.0000 | 0.2407        | 0.1133    | 0.0090 | 9       | -0.26            | 034.04      | 0    |
| 034          | Selenium (ppm)        | 0164     | 0.2255   | 0.0130 | 0.2407        | 0.1133    | 0.0090 | 9       | -0.13            | 034.04      | 0    |
| 034          | Selenium (ppm)        | 0553     | 0.2395   | 0.0050 | 0.2407        | 0.1133    | 0.0090 | 9       | -0.01            | 034.53      | 0    |
| 034          | Selenium (ppm)        | 2136     | 0.3165   | 0.0130 | 0.2407        | 0.1133    | 0.0090 | 9       | 0.67             | 034.43      | 0    |
| 034          | Selenium (ppm)        | 0918     | 0.3399   | 0.0081 | 0.2407        | 0.1133    | 0.0090 | 9       | 0.88             | 034.53      | 0    |
| 034          | Selenium (ppm)        | 0003     | 0.6980   | 0.0140 | 0.2407        | 0.1133    | 0.0090 | 9       | 4.04             | 034.53      | 0    |

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 035          | Sodium (%)            | 2124     | 0.0030   | 0.0000 | 0.0130        | 0.0097    | 0.0033 | 20      | -1.03            | 035.43      | 0    |
| 035          | Sodium (%)            | 2136     | 0.0039   | 0.0003 | 0.0130        | 0.0097    | 0.0033 | 20      | -0.95            | 035.43      | 0    |
| 035          | Sodium (%)            | 0656     | 0.0042   | 0.0000 | 0.0130        | 0.0097    | 0.0033 | 20      | -0.91            | 035.31      | 0    |
| 035          | Sodium (%)            | 0510     | 0.0045   | 0.0010 | 0.0130        | 0.0097    | 0.0033 | 20      | -0.88            | 035.43      | 0    |
| 035          | Sodium (%)            | 0098     | 0.0056   | 0.0023 | 0.0130        | 0.0097    | 0.0033 | 20      | -0.77            | 035.43      | 0    |
| 035          | Sodium (%)            | 0407     | 0.0058   | 0.0004 | 0.0130        | 0.0097    | 0.0033 | 20      | -0.74            | 035.41      | 0    |
| 035          | Sodium (%)            | 0164     | 0.0070   | 0.0000 | 0.0130        | 0.0097    | 0.0033 | 20      | -0.62            | 035.41      | 0    |
| 035          | Sodium (%)            | 0870     | 0.0074   | 0.0002 | 0.0130        | 0.0097    | 0.0033 | 20      | -0.58            | 035.42      | 0    |
| 035          | Sodium (%)            | 0098     | 0.0076   | 0.0002 | 0.0130        | 0.0097    | 0.0033 | 20      | -0.56            | 035.41      | 0    |
| 035          | Sodium (%)            | 0202     | 0.0105   | 0.0010 | 0.0130        | 0.0097    | 0.0033 | 20      | -0.26            | 035.43      | 0    |
| 035          | Sodium (%)            | 2232     | 0.0115   | 0.0010 | 0.0130        | 0.0097    | 0.0033 | 20      | -0.16            | 035.41      | 0    |
| 035          | Sodium (%)            | 0529     | 0.0140   | 0.0060 | 0.0130        | 0.0097    | 0.0033 | 20      | 0.10             | 035.31      | 0    |
| 035          | Sodium (%)            | 2089     | 0.0150   | 0.0100 | 0.0130        | 0.0097    | 0.0033 | 20      | 0.20             | 035.43      | 0    |
| 035          | Sodium (%)            | 0065     | 0.0160   | 0.0000 | 0.0130        | 0.0097    | 0.0033 | 20      | 0.31             | 035.41      | 0    |
| 035          | Sodium (%)            | 0619     | 0.0175   | 0.0030 | 0.0130        | 0.0097    | 0.0033 | 20      | 0.46             | 035.41      | 0    |
| 035          | Sodium (%)            | 0051     | 0.0210   | 0.0026 | 0.0130        | 0.0097    | 0.0033 | 20      | 0.82             | 035.41      | 0    |
| 035          | Sodium (%)            | 0171     | 0.0235   | 0.0010 | 0.0130        | 0.0097    | 0.0033 | 20      | 1.08             | 035.41      | 0    |
| 035          | Sodium (%)            | 2156     | 0.0300   | 0.0200 | 0.0130        | 0.0097    | 0.0033 | 20      | 1.75             | 035.41      | 0    |
| 035          | Sodium (%)            | 2252     | 0.0430   | 0.0060 | 0.0130        | 0.0097    | 0.0033 | 20      | 3.08             | 035.41      | 0    |
| 035          | Sodium (%)            | 2220     | 0.0450   | 0.0100 | 0.0130        | 0.0097    | 0.0033 | 20      | 3.29             | 035.41      | 0    |
| 035          | Sodium (%)            | 2219     | 0.0650   | 0.0300 | 0.0130        | 0.0097    | 0.0033 | 20      | 5.35             | 035.41      | 1    |
| 035          | Sodium (%)            | 2293     | 0.0650   | 0.0300 | 0.0130        | 0.0097    | 0.0033 | 20      | 5.35             | 035.41      | 1    |
| 035          | Sodium (%)            | 2207     | < 0.01   |        | 0.0130        | 0.0097    | 0.0033 | 20      |                  | 035.42      | 5    |
| 035          | Sodium (%)            | 0242     | < 0.01   |        | 0.0130        | 0.0097    | 0.0033 | 20      |                  | 035.99      | 5    |
| 035          | Sodium (%)            | 0042     | < 0.012  |        | 0.0130        | 0.0097    | 0.0033 | 20      |                  | 035.43      | 5    |
| 035          | Sodium (%)            | 0918     | < 0.014  |        | 0.0130        | 0.0097    | 0.0033 | 20      |                  | 035.43      | 5    |
| 036          | Sulfur (%)            | 0164     | 0.3550   | 0.0300 | 0.3738        | 0.0180    | 0.0093 | 12      | -1.05            | 036.42      | 0    |
| 036          | Sulfur (%)            | 0870     | 0.3569   | 0.0213 | 0.3738        | 0.0180    | 0.0093 | 12      | -0.94            | 036.42      | 0    |
| 036          | Sulfur (%)            | 0171     | 0.3600   | 0.0000 | 0.3738        | 0.0180    | 0.0093 | 12      | -0.77            | 036.42      | 0    |
| 036          | Sulfur (%)            | 0242     | 0.3600   | 0.0000 | 0.3738        | 0.0180    | 0.0093 | 12      | -0.77            | 036.99      | 0    |
| 036          | Sulfur (%)            | 0918     | 0.3630   | 0.0000 | 0.3738        | 0.0180    | 0.0093 | 12      | -0.60            | 036.43      | 0    |
| 036          | Sulfur (%)            | 0202     | 0.3655   | 0.0130 | 0.3738        | 0.0180    | 0.0093 | 12      | -0.46            | 036.43      | 0    |
| 036          | Sulfur (%)            | 0407     | 0.3764   | 0.0183 | 0.3738        | 0.0180    | 0.0093 | 12      | 0.14             | 036.42      | 0    |
| 036          | Sulfur (%)            | 2089     | 0.3800   | 0.0000 | 0.3738        | 0.0180    | 0.0093 | 12      | 0.34             | 036.43      | 0    |
| 036          | Sulfur (%)            | 0553     | 0.3845   | 0.0070 | 0.3738        | 0.0180    | 0.0093 | 12      | 0.59             | 036.53      | 0    |
| 036          | Sulfur (%)            | 0510     | 0.3900   | 0.0000 | 0.3738        | 0.0180    | 0.0093 | 12      | 0.90             | 036.43      | 0    |
| 036          | Sulfur (%)            | 0042     | 0.3940   | 0.0100 | 0.3738        | 0.0180    | 0.0093 | 12      | 1.12             | 036.43      | 0    |
| 036          | Sulfur (%)            | 0098     | 0.4136   | 0.0118 | 0.3738        | 0.0180    | 0.0093 | 12      | 2.21             | 036.43      | 0    |
| 037          | Zinc (ppm)            | 0870     | 47.69    | 0.5300 | 58.83         | 4.886     | 1.507  | 25      | -2.28            | 037.42      | 0    |
| 037          | Zinc (ppm)            | 0242     | 51.50    | 1.000  | 58.83         | 4.886     | 1.507  | 25      | -1.50            | 037.99      | 0    |
| 037          | Zinc (ppm)            | 0918     | 53.83    | 1.090  | 58.83         | 4.886     | 1.507  | 25      | -1.02            | 037.43      | 0    |
| 037          | Zinc (ppm)            | 0074     | 54.00    | 2.000  | 58.83         | 4.886     | 1.507  | 25      | -0.99            | 037.41      | 0    |

| Method Group | Analyte Group (Units)  | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|------------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                        |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 037          | Zinc (ppm)             | 0619     | 54.00    | 1.600  | 58.83         | 4.886     | 1.507  | 25      | -0.99            | 037.99      | 0    |
| 037          | Zinc (ppm)             | 2136     | 54.10    | 1.400  | 58.83         | 4.886     | 1.507  | 25      | -0.97            | 037.43      | 0    |
| 037          | Zinc (ppm)             | 0001     | 54.79    | 3.380  | 58.83         | 4.886     | 1.507  | 25      | -0.83            | 037.31      | 0    |
| 037          | Zinc (ppm)             | 0510     | 56.00    | 0.0000 | 58.83         | 4.886     | 1.507  | 25      | -0.58            | 037.43      | 0    |
| 037          | Zinc (ppm)             | 0042     | 56.75    | 2.700  | 58.83         | 4.886     | 1.507  | 25      | -0.43            | 037.43      | 0    |
| 037          | Zinc (ppm)             | 0208     | 57.85    | 3.480  | 58.83         | 4.886     | 1.507  | 25      | -0.20            | 037.41      | 0    |
| 037          | Zinc (ppm)             | 0051     | 58.37    | 0.0000 | 58.83         | 4.886     | 1.507  | 25      | -0.09            | 037.41      | 0    |
| 037          | Zinc (ppm)             | 2124     | 58.94    | 0.5400 | 58.83         | 4.886     | 1.507  | 25      | 0.02             | 037.43      | 0    |
| 037          | Zinc (ppm)             | 0656     | 59.12    | 0.0000 | 58.83         | 4.886     | 1.507  | 25      | 0.06             | 037.31      | 0    |
| 037          | Zinc (ppm)             | 0529     | 59.45    | 0.3000 | 58.83         | 4.886     | 1.507  | 25      | 0.13             | 037.31      | 0    |
| 037          | Zinc (ppm)             | 0164     | 59.50    | 3.000  | 58.83         | 4.886     | 1.507  | 25      | 0.14             | 037.41      | 0    |
| 037          | Zinc (ppm)             | 0010     | 60.00    | 0.0000 | 58.83         | 4.886     | 1.507  | 25      | 0.24             | 037.33      | 0    |
| 037          | Zinc (ppm)             | 0553     | 60.80    | 0.8000 | 58.83         | 4.886     | 1.507  | 25      | 0.40             | 037.53      | 0    |
| 037          | Zinc (ppm)             | 0407     | 62.02    | 2.315  | 58.83         | 4.886     | 1.507  | 25      | 0.65             | 037.41      | 0    |
| 037          | Zinc (ppm)             | 0171     | 62.85    | 0.9000 | 58.83         | 4.886     | 1.507  | 25      | 0.82             | 037.41      | 0    |
| 037          | Zinc (ppm)             | 0098     | 63.15    | 1.110  | 58.83         | 4.886     | 1.507  | 25      | 0.88             | 037.43      | 0    |
| 037          | Zinc (ppm)             | 0098     | 63.49    | 0.9700 | 58.83         | 4.886     | 1.507  | 25      | 0.95             | 037.41      | 0    |
| 037          | Zinc (ppm)             | 2207     | 63.50    | 5.000  | 58.83         | 4.886     | 1.507  | 25      | 0.96             | 037.42      | 0    |
| 037          | Zinc (ppm)             | 2089     | 63.90    | 1.720  | 58.83         | 4.886     | 1.507  | 25      | 1.04             | 037.43      | 0    |
| 037          | Zinc (ppm)             | 2115     | 65.17    | 0.8460 | 58.83         | 4.886     | 1.507  | 25      | 1.30             | 037.31      | 0    |
| 037          | Zinc (ppm)             | 0003     | 67.50    | 3.000  | 58.83         | 4.886     | 1.507  | 25      | 1.77             | 037.41      | 0    |
| 037          | Zinc (ppm)             | 0202     | 60.73    | 11.15  | 58.83         | 4.886     | 1.507  | 25      | 0.39             | 037.43      | 1    |
| 038          | Molybdenum (ppm)       | 0171     | 7.785    | 0.1500 | 9.276         | 1.210     | 0.0508 | 5       |                  | 038.41      | 0    |
| 038          | Molybdenum (ppm)       | 0407     | 8.325    | 0.0123 | 9.276         | 1.210     | 0.0508 | 5       |                  | 038.41      | 0    |
| 038          | Molybdenum (ppm)       | 0510     | 9.400    | 0.0000 | 9.276         | 1.210     | 0.0508 | 5       |                  | 038.43      | 0    |
| 038          | Molybdenum (ppm)       | 0553     | 10.30    | 0.0000 | 9.276         | 1.210     | 0.0508 | 5       |                  | 038.53      | 0    |
| 038          | Molybdenum (ppm)       | 0918     | 10.57    | 0.0916 | 9.276         | 1.210     | 0.0508 | 5       |                  | 038.53      | 0    |
| 038          | Molybdenum (ppm)       | 0202     | 9.415    | 1.030  | 9.276         | 1.210     | 0.0508 | 5       |                  | 038.43      | 1    |
| 040          | Barium (ppm)           | 0918     | 2.757    | 0.0051 |               |           |        | 1       |                  | 040.53      | 0    |
| 041          | Vanadium (ppm)         | 0553     | 0.0875   | 0.0065 |               |           |        | 1       |                  | 041.53      | 0    |
| 101          | Choline Chloride (ppm) | 0160     | 2,120    | 400.0  |               |           |        | 3       |                  | 101.01      | 0    |
| 101          | Choline Chloride (ppm) | 0227     | 3,010    | 20.00  |               |           |        | 3       |                  | 101.02      | 0    |
| 101          | Choline Chloride (ppm) | 0619     | 3,934    | 101.0  |               |           |        | 3       |                  | 101.02      | 0    |
| 102          | Niacin (ppm)           | 2124     | 15.44    | 0.2800 |               |           |        | 3       |                  | 102.02      | 0    |
| 102          | Niacin (ppm)           | 0010     | 16.10    | 0.2000 |               |           |        | 3       |                  | 102.02      | 0    |
| 102          | Niacin (ppm)           | 0227     | 47.75    | 1.500  |               |           |        | 3       |                  | 102.01      | 0    |
| 103          | Pantothenic Acid (ppm) | 0227     | 10.40    | 0.6000 |               |           |        | 3       |                  | 103.01      | 0    |
| 103          | Pantothenic Acid (ppm) | 0010     | 11.60    | 0.8000 |               |           |        | 3       |                  | 103.02      | 0    |
| 103          | Pantothenic Acid (ppm) | 2124     | 92.06    | 6.300  |               |           |        | 3       |                  | 103.02      | 0    |
| 104          | Riboflavin (ppm)       | 0010     | 0.9000   | 0.2000 | 4.956         | 2.802     | 0.2875 | 4       |                  | 104.03      | 0    |
| 104          | Riboflavin (ppm)       | 0171     | 5.405    | 0.4100 | 4.956         | 2.802     | 0.2875 | 4       |                  | 104.00      | 0    |
| 104          | Riboflavin (ppm)       | 0227     | 6.320    | 0.5400 | 4.956         | 2.802     | 0.2875 | 4       |                  | 104.00      | 0    |

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 104          | Riboflavin (ppm)      | 2124     | 7.200    | 0.0000 | 4.956         | 2.802     | 0.2875 | 4       |                  | 104.03      | 0    |
| 105          | Thiamine (ppm)        | 0010     | 2.150    | 0.3000 |               |           |        | 3       |                  | 105.00      | 0    |
| 105          | Thiamine (ppm)        | 2124     | 3.900    | 0.1600 |               |           |        | 3       |                  | 105.00      | 0    |
| 105          | Thiamine (ppm)        | 0227     | 6.935    | 0.0700 |               |           |        | 3       |                  | 105.01      | 0    |
| 107          | Vitamin B12 (ppb)     | 0227     | 18.15    | 0.1000 |               |           |        | 1       |                  | 107.00      | 0    |
| 109          | Vitamin E (IU / kg)   | 0619     | 1.000    | 0.0000 |               |           |        | 1       |                  | 109.02      | 0    |
| 112          | Pyridoxine (µg / g)   | 0227     | 4.235    | 0.0500 |               |           |        | 2       |                  | 112.01      | 0    |
| 112          | Pyridoxine (µg / g)   | 2124     | 35.91    | 2.170  |               |           |        | 2       |                  | 112.01      | 0    |
| 113          | Folic Acid (ppm)      | 0227     | 3.410    | 0.1200 |               |           |        | 1       |                  | 113.01      | 0    |
| 114          | Biotin (ppm)          | 0227     | 0.4405   | 0.0230 |               |           |        | 1       |                  | 114.01      | 0    |
| 114          | Biotin (ppm)          | 0010     | < 5      |        |               |           |        | 1       |                  | 114.99      | 5    |
| 120          | Alanine (%)           | 0619     | 1.955    | 0.0500 | 2.061         | 0.0874    | 0.0287 | 6       | -1.21            | 120.00      | 0    |
| 120          | Alanine (%)           | 0242     | 2.010    | 0.0600 | 2.061         | 0.0874    | 0.0287 | 6       | -0.58            | 120.05      | 0    |
| 120          | Alanine (%)           | 0918     | 2.024    | 0.0259 | 2.061         | 0.0874    | 0.0287 | 6       | -0.42            | 120.00      | 0    |
| 120          | Alanine (%)           | 0504     | 2.090    | 0.0200 | 2.061         | 0.0874    | 0.0287 | 6       | 0.33             | 120.00      | 0    |
| 120          | Alanine (%)           | 0227     | 2.130    | 0.0000 | 2.061         | 0.0874    | 0.0287 | 6       | 0.79             | 120.00      | 0    |
| 120          | Alanine (%)           | 0870     | 2.155    | 0.0163 | 2.061         | 0.0874    | 0.0287 | 6       | 1.08             | 120.00      | 0    |
| 120          | Alanine (%)           | 0407     | 1.638    | 0.2160 | 2.061         | 0.0874    | 0.0287 | 6       | -4.84            | 120.05      | 1    |
| 121          | Arginine (%)          | 0407     | 2.630    | 0.1680 | 3.276         | 0.1895    | 0.0662 | 8       | -3.41            | 121.05      | 0    |
| 121          | Arginine (%)          | 0619     | 3.155    | 0.0300 | 3.276         | 0.1895    | 0.0662 | 8       | -0.64            | 121.00      | 0    |
| 121          | Arginine (%)          | 0242     | 3.165    | 0.1500 | 3.276         | 0.1895    | 0.0662 | 8       | -0.59            | 121.05      | 0    |
| 121          | Arginine (%)          | 0870     | 3.276    | 0.0556 | 3.276         | 0.1895    | 0.0662 | 8       | 0.00             | 121.00      | 0    |
| 121          | Arginine (%)          | 0504     | 3.330    | 0.0600 | 3.276         | 0.1895    | 0.0662 | 8       | 0.28             | 121.00      | 0    |
| 121          | Arginine (%)          | 0227     | 3.355    | 0.0300 | 3.276         | 0.1895    | 0.0662 | 8       | 0.41             | 121.00      | 0    |
| 121          | Arginine (%)          | 0918     | 3.424    | 0.0131 | 3.276         | 0.1895    | 0.0662 | 8       | 0.78             | 121.00      | 0    |
| 121          | Arginine (%)          | 2115     | 3.515    | 0.0230 | 3.276         | 0.1895    | 0.0662 | 8       | 1.26             | 121.00      | 0    |
| 122          | Aspartic (%)          | 0407     | 3.566    | 0.3790 | 5.132         | 0.2922    | 0.1037 | 7       | -5.36            | 122.05      | 0    |
| 122          | Aspartic (%)          | 0619     | 4.960    | 0.1000 | 5.132         | 0.2922    | 0.1037 | 7       | -0.59            | 122.00      | 0    |
| 122          | Aspartic (%)          | 0242     | 5.100    | 0.1600 | 5.132         | 0.2922    | 0.1037 | 7       | -0.11            | 122.05      | 0    |
| 122          | Aspartic (%)          | 0504     | 5.120    | 0.0000 | 5.132         | 0.2922    | 0.1037 | 7       | -0.04            | 122.00      | 0    |
| 122          | Aspartic (%)          | 0227     | 5.225    | 0.0300 | 5.132         | 0.2922    | 0.1037 | 7       | 0.32             | 122.00      | 0    |
| 122          | Aspartic (%)          | 0870     | 5.340    | 0.0251 | 5.132         | 0.2922    | 0.1037 | 7       | 0.71             | 122.00      | 0    |
| 122          | Aspartic (%)          | 0918     | 5.483    | 0.0319 | 5.132         | 0.2922    | 0.1037 | 7       | 1.20             | 122.00      | 0    |
| 124          | Cysteine/Cystine (%)  | 0870     | 0.5642   | 0.0290 | 0.6016        | 0.0368    | 0.0147 | 7       | -1.02            | 124.00      | 0    |
| 124          | Cysteine/Cystine (%)  | 0227     | 0.5700   | 0.0000 | 0.6016        | 0.0368    | 0.0147 | 7       | -0.86            | 124.00      | 0    |
| 124          | Cysteine/Cystine (%)  | 0242     | 0.5850   | 0.0500 | 0.6016        | 0.0368    | 0.0147 | 7       | -0.45            | 124.05      | 0    |
| 124          | Cysteine/Cystine (%)  | 2115     | 0.5930   | 0.0080 | 0.6016        | 0.0368    | 0.0147 | 7       | -0.23            | 124.00      | 0    |
| 124          | Cysteine/Cystine (%)  | 0918     | 0.6150   | 0.0100 | 0.6016        | 0.0368    | 0.0147 | 7       | 0.36             | 124.00      | 0    |
| 124          | Cysteine/Cystine (%)  | 0619     | 0.6340   | 0.0060 | 0.6016        | 0.0368    | 0.0147 | 7       | 0.88             | 124.00      | 0    |
| 124          | Cysteine/Cystine (%)  | 0504     | 0.6500   | 0.0000 | 0.6016        | 0.0368    | 0.0147 | 7       | 1.32             | 124.00      | 0    |
| 124          | Cysteine/Cystine (%)  | 0407     | 0.5275   | 0.1630 | 0.6016        | 0.0368    | 0.0147 | 7       | -2.01            | 124.05      | 1    |
| 125          | Glutamic (%)          | 0619     | 7.020    | 0.1800 | 8.222         | 0.8271    | 0.1088 | 6       | -1.45            | 125.00      | 0    |

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 125          | Glutamic (%)          | 0242     | 7.855    | 0.2900 | 8.222         | 0.8271    | 0.1088 | 6       | -0.44            | 125.05      | 0    |
| 125          | Glutamic (%)          | 0504     | 8.195    | 0.0500 | 8.222         | 0.8271    | 0.1088 | 6       | -0.03            | 125.00      | 0    |
| 125          | Glutamic (%)          | 0227     | 8.400    | 0.0400 | 8.222         | 0.8271    | 0.1088 | 6       | 0.22             | 125.00      | 0    |
| 125          | Glutamic (%)          | 0870     | 8.781    | 0.0421 | 8.222         | 0.8271    | 0.1088 | 6       | 0.68             | 125.00      | 0    |
| 125          | Glutamic (%)          | 0918     | 9.079    | 0.0505 | 8.222         | 0.8271    | 0.1088 | 6       | 1.04             | 125.00      | 0    |
| 125          | Glutamic (%)          | 0407     | 5.039    | 1.602  | 8.222         | 0.8271    | 0.1088 | 6       | -3.85            | 125.05      | 1    |
| 126          | Glycine (%)           | 0407     | 1.846    | 0.0930 | 1.939         | 0.0821    | 0.0322 | 7       | -1.14            | 126.05      | 0    |
| 126          | Glycine (%)           | 0242     | 1.870    | 0.0600 | 1.939         | 0.0821    | 0.0322 | 7       | -0.84            | 126.05      | 0    |
| 126          | Glycine (%)           | 0619     | 1.885    | 0.0500 | 1.939         | 0.0821    | 0.0322 | 7       | -0.66            | 126.00      | 0    |
| 126          | Glycine (%)           | 0870     | 1.969    | 0.0158 | 1.939         | 0.0821    | 0.0322 | 7       | 0.36             | 126.00      | 0    |
| 126          | Glycine (%)           | 0227     | 1.980    | 0.0000 | 1.939         | 0.0821    | 0.0322 | 7       | 0.50             | 126.00      | 0    |
| 126          | Glycine (%)           | 0504     | 1.980    | 0.0000 | 1.939         | 0.0821    | 0.0322 | 7       | 0.50             | 126.00      | 0    |
| 126          | Glycine (%)           | 0918     | 2.043    | 0.0068 | 1.939         | 0.0821    | 0.0322 | 7       | 1.27             | 126.00      | 0    |
| 127          | Histidine (%)         | 0619     | 1.105    | 0.0100 | 1.200         | 0.0952    | 0.0145 | 7       | -0.99            | 127.00      | 0    |
| 127          | Histidine (%)         | 0242     | 1.105    | 0.0500 | 1.200         | 0.0952    | 0.0145 | 7       | -0.99            | 127.05      | 0    |
| 127          | Histidine (%)         | 0227     | 1.180    | 0.0000 | 1.200         | 0.0952    | 0.0145 | 7       | -0.21            | 127.00      | 0    |
| 127          | Histidine (%)         | 0504     | 1.190    | 0.0000 | 1.200         | 0.0952    | 0.0145 | 7       | -0.10            | 127.00      | 0    |
| 127          | Histidine (%)         | 0918     | 1.220    | 0.0104 | 1.200         | 0.0952    | 0.0145 | 7       | 0.21             | 127.00      | 0    |
| 127          | Histidine (%)         | 0870     | 1.255    | 0.0160 | 1.200         | 0.0952    | 0.0145 | 7       | 0.58             | 127.00      | 0    |
| 127          | Histidine (%)         | 2115     | 1.459    | 0.0150 | 1.200         | 0.0952    | 0.0145 | 7       | 2.72             | 127.00      | 0    |
| 127          | Histidine (%)         | 0407     | 0.9140   | 0.2140 | 1.200         | 0.0952    | 0.0145 | 7       | -3.00            | 127.05      | 1    |
| 128          | Isoleucine (%)        | 0242     | 1.735    | 0.1500 | 2.029         | 0.1715    | 0.0487 | 7       | -1.72            | 128.05      | 0    |
| 128          | Isoleucine (%)        | 0870     | 1.913    | 0.0877 | 2.029         | 0.1715    | 0.0487 | 7       | -0.68            | 128.00      | 0    |
| 128          | Isoleucine (%)        | 0918     | 1.998    | 0.0020 | 2.029         | 0.1715    | 0.0487 | 7       | -0.18            | 128.00      | 0    |
| 128          | Isoleucine (%)        | 0619     | 2.025    | 0.0500 | 2.029         | 0.1715    | 0.0487 | 7       | -0.03            | 128.00      | 0    |
| 128          | Isoleucine (%)        | 0227     | 2.155    | 0.0100 | 2.029         | 0.1715    | 0.0487 | 7       | 0.73             | 128.00      | 0    |
| 128          | Isoleucine (%)        | 2115     | 2.158    | 0.0110 | 2.029         | 0.1715    | 0.0487 | 7       | 0.75             | 128.00      | 0    |
| 128          | Isoleucine (%)        | 0504     | 2.185    | 0.0300 | 2.029         | 0.1715    | 0.0487 | 7       | 0.91             | 128.00      | 0    |
| 128          | Isoleucine (%)        | 0407     | 1.301    | 0.7800 | 2.029         | 0.1715    | 0.0487 | 7       | -4.25            | 128.05      | 1    |
| 129          | Leucine (%)           | 0407     | 3.104    | 0.1590 | 3.453         | 0.2274    | 0.0559 | 8       | -1.53            | 129.05      | 0    |
| 129          | Leucine (%)           | 0242     | 3.225    | 0.0300 | 3.453         | 0.2274    | 0.0559 | 8       | -1.00            | 129.05      | 0    |
| 129          | Leucine (%)           | 0619     | 3.390    | 0.1000 | 3.453         | 0.2274    | 0.0559 | 8       | -0.28            | 129.00      | 0    |
| 129          | Leucine (%)           | 0870     | 3.447    | 0.0573 | 3.453         | 0.2274    | 0.0559 | 8       | -0.03            | 129.00      | 0    |
| 129          | Leucine (%)           | 2115     | 3.567    | 0.0070 | 3.453         | 0.2274    | 0.0559 | 8       | 0.50             | 129.00      | 0    |
| 129          | Leucine (%)           | 0504     | 3.580    | 0.0200 | 3.453         | 0.2274    | 0.0559 | 8       | 0.56             | 129.00      | 0    |
| 129          | Leucine (%)           | 0227     | 3.620    | 0.0200 | 3.453         | 0.2274    | 0.0559 | 8       | 0.74             | 129.00      | 0    |
| 129          | Leucine (%)           | 0918     | 3.681    | 0.0538 | 3.453         | 0.2274    | 0.0559 | 8       | 1.00             | 129.00      | 0    |
| 130          | L-Lysine (%)          | 0619     | 2.540    | 0.0400 | 2.789         | 0.2067    | 0.0617 | 7       | -1.21            | 130.00      | 0    |
| 130          | L-Lysine (%)          | 0242     | 2.580    | 0.1200 | 2.789         | 0.2067    | 0.0617 | 7       | -1.01            | 130.05      | 0    |
| 130          | L-Lysine (%)          | 2115     | 2.777    | 0.0010 | 2.789         | 0.2067    | 0.0617 | 7       | -0.06            | 130.00      | 0    |
| 130          | L-Lysine (%)          | 0504     | 2.810    | 0.0200 | 2.789         | 0.2067    | 0.0617 | 7       | 0.10             | 130.00      | 0    |
| 130          | L-Lysine (%)          | 0227     | 2.825    | 0.1500 | 2.789         | 0.2067    | 0.0617 | 7       | 0.17             | 130.00      | 0    |



| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 130          | L-Lysine (%)          | 0870     | 2.944    | 0.0369 | 2.789         | 0.2067    | 0.0617 | 7       | 0.75             | 130.00      | 0    |
| 130          | L-Lysine (%)          | 0918     | 3.049    | 0.0639 | 2.789         | 0.2067    | 0.0617 | 7       | 1.26             | 130.00      | 0    |
| 130          | L-Lysine (%)          | 0407     | 2.165    | 0.9470 | 2.789         | 0.2067    | 0.0617 | 7       | -3.02            | 130.05      | 1    |
| 131          | Methionine (%)        | 0918     | 0.5700   | 0.0200 | 0.6223        | 0.0544    | 0.0295 | 8       | -0.96            | 131.00      | 0    |
| 131          | Methionine (%)        | 0242     | 0.5750   | 0.0300 | 0.6223        | 0.0544    | 0.0295 | 8       | -0.87            | 131.05      | 0    |
| 131          | Methionine (%)        | 2115     | 0.5795   | 0.0290 | 0.6223        | 0.0544    | 0.0295 | 8       | -0.79            | 131.00      | 0    |
| 131          | Methionine (%)        | 0619     | 0.6050   | 0.0280 | 0.6223        | 0.0544    | 0.0295 | 8       | -0.32            | 131.00      | 0    |
| 131          | Methionine (%)        | 0227     | 0.6350   | 0.0100 | 0.6223        | 0.0544    | 0.0295 | 8       | 0.23             | 131.00      | 0    |
| 131          | Methionine (%)        | 0504     | 0.6500   | 0.0000 | 0.6223        | 0.0544    | 0.0295 | 8       | 0.51             | 131.00      | 0    |
| 131          | Methionine (%)        | 0407     | 0.6600   | 0.0900 | 0.6223        | 0.0544    | 0.0295 | 8       | 0.69             | 131.05      | 0    |
| 131          | Methionine (%)        | 0870     | 0.7339   | 0.0290 | 0.6223        | 0.0544    | 0.0295 | 8       | 2.05             | 131.00      | 0    |
| 132          | Phenylalanine (%)     | 0619     | 2.060    | 0.0600 | 2.331         | 0.0976    | 0.0550 | 7       | -2.78            | 132.00      | 0    |
| 132          | Phenylalanine (%)     | 2115     | 2.286    | 0.0160 | 2.331         | 0.0976    | 0.0550 | 7       | -0.46            | 132.00      | 0    |
| 132          | Phenylalanine (%)     | 0242     | 2.300    | 0.1400 | 2.331         | 0.0976    | 0.0550 | 7       | -0.32            | 132.05      | 0    |
| 132          | Phenylalanine (%)     | 0870     | 2.340    | 0.0717 | 2.331         | 0.0976    | 0.0550 | 7       | 0.09             | 132.00      | 0    |
| 132          | Phenylalanine (%)     | 0227     | 2.365    | 0.0100 | 2.331         | 0.0976    | 0.0550 | 7       | 0.35             | 132.00      | 0    |
| 132          | Phenylalanine (%)     | 0504     | 2.385    | 0.0100 | 2.331         | 0.0976    | 0.0550 | 7       | 0.55             | 132.00      | 0    |
| 132          | Phenylalanine (%)     | 0918     | 2.457    | 0.0772 | 2.331         | 0.0976    | 0.0550 | 7       | 1.29             | 132.00      | 0    |
| 132          | Phenylalanine (%)     | 0407     | 2.265    | 0.5940 | 2.331         | 0.0976    | 0.0550 | 7       | -0.68            | 132.05      | 1    |
| 133          | Proline (%)           | 0619     | 1.990    | 0.0400 | 2.201         | 0.1655    | 0.0588 | 7       | -1.28            | 133.00      | 0    |
| 133          | Proline (%)           | 0407     | 2.074    | 0.1960 | 2.201         | 0.1655    | 0.0588 | 7       | -0.77            | 133.05      | 0    |
| 133          | Proline (%)           | 0242     | 2.085    | 0.0700 | 2.201         | 0.1655    | 0.0588 | 7       | -0.70            | 133.05      | 0    |
| 133          | Proline (%)           | 0870     | 2.283    | 0.0790 | 2.201         | 0.1655    | 0.0588 | 7       | 0.49             | 133.00      | 0    |
| 133          | Proline (%)           | 0918     | 2.317    | 0.0069 | 2.201         | 0.1655    | 0.0588 | 7       | 0.70             | 133.00      | 0    |
| 133          | Proline (%)           | 0504     | 2.320    | 0.0200 | 2.201         | 0.1655    | 0.0588 | 7       | 0.72             | 133.00      | 0    |
| 133          | Proline (%)           | 0227     | 2.340    | 0.0000 | 2.201         | 0.1655    | 0.0588 | 7       | 0.84             | 133.00      | 0    |
| 134          | Serine (%)            | 0407     | 1.650    | 0.2390 | 2.282         | 0.3096    | 0.0615 | 7       | -2.04            | 134.05      | 0    |
| 134          | Serine (%)            | 0504     | 2.035    | 0.0100 | 2.282         | 0.3096    | 0.0615 | 7       | -0.80            | 134.00      | 0    |
| 134          | Serine (%)            | 0227     | 2.265    | 0.0100 | 2.282         | 0.3096    | 0.0615 | 7       | -0.05            | 134.00      | 0    |
| 134          | Serine (%)            | 0619     | 2.335    | 0.0300 | 2.282         | 0.3096    | 0.0615 | 7       | 0.17             | 134.00      | 0    |
| 134          | Serine (%)            | 0242     | 2.440    | 0.0800 | 2.282         | 0.3096    | 0.0615 | 7       | 0.51             | 134.05      | 0    |
| 134          | Serine (%)            | 0918     | 2.473    | 0.0613 | 2.282         | 0.3096    | 0.0615 | 7       | 0.62             | 134.00      | 0    |
| 134          | Serine (%)            | 0870     | 2.607    | 0.0005 | 2.282         | 0.3096    | 0.0615 | 7       | 1.05             | 134.00      | 0    |
| 135          | Threonine (%)         | 0407     | 1.147    | 0.1920 | 1.817         | 0.1051    | 0.0768 | 9       | -6.37            | 135.05      | 0    |
| 135          | Threonine (%)         | 0160     | 1.695    | 0.2500 | 1.817         | 0.1051    | 0.0768 | 9       | -1.16            | 135.99      | 0    |
| 135          | Threonine (%)         | 0619     | 1.795    | 0.0300 | 1.817         | 0.1051    | 0.0768 | 9       | -0.21            | 135.00      | 0    |
| 135          | Threonine (%)         | 0504     | 1.815    | 0.0100 | 1.817         | 0.1051    | 0.0768 | 9       | -0.02            | 135.00      | 0    |
| 135          | Threonine (%)         | 0242     | 1.815    | 0.1100 | 1.817         | 0.1051    | 0.0768 | 9       | -0.02            | 135.05      | 0    |
| 135          | Threonine (%)         | 0227     | 1.830    | 0.0000 | 1.817         | 0.1051    | 0.0768 | 9       | 0.13             | 135.00      | 0    |
| 135          | Threonine (%)         | 2115     | 1.903    | 0.0140 | 1.817         | 0.1051    | 0.0768 | 9       | 0.82             | 135.00      | 0    |
| 135          | Threonine (%)         | 0870     | 1.916    | 0.0077 | 1.817         | 0.1051    | 0.0768 | 9       | 0.94             | 135.00      | 0    |
| 135          | Threonine (%)         | 0918     | 1.922    | 0.0778 | 1.817         | 0.1051    | 0.0768 | 9       | 1.00             | 135.00      | 0    |

| Method Group | Analyte Group (Units)  | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|------------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                        |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 136          | Tryptophan (%)         | 0918     | 0.5000   | 0.0000 | 0.6604        | 0.1134    | 0.0102 | 7       | -1.41            | 136.00      | 0    |
| 136          | Tryptophan (%)         | 0504     | 0.6150   | 0.0100 | 0.6604        | 0.1134    | 0.0102 | 7       | -0.40            | 136.99      | 0    |
| 136          | Tryptophan (%)         | 0619     | 0.6425   | 0.0070 | 0.6604        | 0.1134    | 0.0102 | 7       | -0.16            | 136.00      | 0    |
| 136          | Tryptophan (%)         | 0870     | 0.6596   | 0.0141 | 0.6604        | 0.1134    | 0.0102 | 7       | -0.01            | 136.00      | 0    |
| 136          | Tryptophan (%)         | 0242     | 0.6600   | 0.0000 | 0.6604        | 0.1134    | 0.0102 | 7       | 0.00             | 136.05      | 0    |
| 136          | Tryptophan (%)         | 0227     | 0.7150   | 0.0100 | 0.6604        | 0.1134    | 0.0102 | 7       | 0.48             | 136.00      | 0    |
| 136          | Tryptophan (%)         | 0407     | 1.145    | 0.0300 | 0.6604        | 0.1134    | 0.0102 | 7       | 4.27             | 136.05      | 0    |
| 137          | Tyrosine (%)           | 0407     | 0.7800   | 0.0300 | 1.484         | 0.2517    | 0.0757 | 6       | -2.80            | 137.05      | 0    |
| 137          | Tyrosine (%)           | 0870     | 1.350    | 0.0549 | 1.484         | 0.2517    | 0.0757 | 6       | -0.53            | 137.00      | 0    |
| 137          | Tyrosine (%)           | 0227     | 1.535    | 0.0500 | 1.484         | 0.2517    | 0.0757 | 6       | 0.20             | 137.00      | 0    |
| 137          | Tyrosine (%)           | 0242     | 1.545    | 0.1100 | 1.484         | 0.2517    | 0.0757 | 6       | 0.24             | 137.05      | 0    |
| 137          | Tyrosine (%)           | 0504     | 1.665    | 0.0300 | 1.484         | 0.2517    | 0.0757 | 6       | 0.72             | 137.00      | 0    |
| 137          | Tyrosine (%)           | 0918     | 1.700    | 0.1794 | 1.484         | 0.2517    | 0.0757 | 6       | 0.86             | 137.00      | 0    |
| 138          | Valine (%)             | 0242     | 1.850    | 0.1800 | 2.108         | 0.2122    | 0.0505 | 8       | -1.22            | 138.05      | 0    |
| 138          | Valine (%)             | 0407     | 1.921    | 0.0280 | 2.108         | 0.2122    | 0.0505 | 8       | -0.88            | 138.05      | 0    |
| 138          | Valine (%)             | 0619     | 1.980    | 0.0600 | 2.108         | 0.2122    | 0.0505 | 8       | -0.60            | 138.00      | 0    |
| 138          | Valine (%)             | 0870     | 2.071    | 0.0516 | 2.108         | 0.2122    | 0.0505 | 8       | -0.17            | 138.00      | 0    |
| 138          | Valine (%)             | 2115     | 2.121    | 0.0090 | 2.108         | 0.2122    | 0.0505 | 8       | 0.06             | 138.00      | 0    |
| 138          | Valine (%)             | 0918     | 2.241    | 0.0353 | 2.108         | 0.2122    | 0.0505 | 8       | 0.63             | 138.00      | 0    |
| 138          | Valine (%)             | 0227     | 2.330    | 0.0200 | 2.108         | 0.2122    | 0.0505 | 8       | 1.05             | 138.00      | 0    |
| 138          | Valine (%)             | 0504     | 2.350    | 0.0200 | 2.108         | 0.2122    | 0.0505 | 8       | 1.14             | 138.00      | 0    |
| 139          | Taurine (%)            | 0407     | 0.0023   | 0.0026 |               |           |        | 2       |                  | 139.05      | 0    |
| 139          | Taurine (%)            | 0504     | 0.0950   | 0.0100 |               |           |        | 2       |                  | 139.00      | 0    |
| 400          | Water Activity (Units) | 2083     | 0.5750   | 0.0100 | 0.5797        | 0.0055    | 0.0059 | 4       |                  | 400.99      | 0    |
| 400          | Water Activity (Units) | 2033     | 0.5780   | 0.0020 | 0.5797        | 0.0055    | 0.0059 | 4       |                  | 400.99      | 0    |
| 400          | Water Activity (Units) | 0407     | 0.5783   | 0.0045 | 0.5797        | 0.0055    | 0.0059 | 4       |                  | 400.01      | 0    |
| 400          | Water Activity (Units) | 2303     | 0.5877   | 0.0072 | 0.5797        | 0.0055    | 0.0059 | 4       |                  | 400.01      | 0    |
| 516          | Arsenic, Total (ppm)   | 0171     | 0.0500   | 0.0040 | 0.2592        | 0.4112    | 0.0069 | 4       |                  | 516.00      | 0    |
| 516          | Arsenic, Total (ppm)   | 0553     | 0.0539   | 0.0056 | 0.2592        | 0.4112    | 0.0069 | 4       |                  | 516.53      | 0    |
| 516          | Arsenic, Total (ppm)   | 0227     | 0.0570   | 0.0040 | 0.2592        | 0.4112    | 0.0069 | 4       |                  | 516.53      | 0    |
| 516          | Arsenic, Total (ppm)   | 0407     | 0.8760   | 0.0140 | 0.2592        | 0.4112    | 0.0069 | 4       |                  | 516.43      | 0    |
| 516          | Arsenic, Total (ppm)   | 0918     | < 0.089  |        | 0.2592        | 0.4112    | 0.0069 | 4       |                  | 516.53      | 5    |
| 516          | Arsenic, Total (ppm)   | 2124     | < 0.89   |        | 0.2592        | 0.4112    | 0.0069 | 4       |                  | 516.43      | 5    |
| 518          | Cadmium (ppm)          | 0171     | 0.0445   | 0.0010 | 0.0546        | 0.0083    | 0.0016 | 4       |                  | 518.41      | 0    |
| 518          | Cadmium (ppm)          | 0227     | 0.0525   | 0.0030 | 0.0546        | 0.0083    | 0.0016 | 4       |                  | 518.53      | 0    |
| 518          | Cadmium (ppm)          | 0553     | 0.0567   | 0.0016 | 0.0546        | 0.0083    | 0.0016 | 4       |                  | 518.53      | 0    |
| 518          | Cadmium (ppm)          | 0918     | 0.0645   | 0.0006 | 0.0546        | 0.0083    | 0.0016 | 4       |                  | 518.53      | 0    |
| 518          | Cadmium (ppm)          | 0407     | 0.0403   | 0.0077 | 0.0546        | 0.0083    | 0.0016 | 4       |                  | 518.41      | 1    |
| 518          | Cadmium (ppm)          | 2124     | < 0.16   |        | 0.0546        | 0.0083    | 0.0016 | 4       |                  | 518.43      | 5    |
| 520          | Chromium (ppm)         | 0553     | 0.1570   | 0.0140 | 0.2655        | 0.0767    | 0.0214 | 4       |                  | 520.53      | 0    |
| 520          | Chromium (ppm)         | 0510     | 0.2800   | 0.0000 | 0.2655        | 0.0767    | 0.0214 | 4       |                  | 520.43      | 0    |
| 520          | Chromium (ppm)         | 0407     | 0.2874   | 0.0467 | 0.2655        | 0.0767    | 0.0214 | 4       |                  | 520.41      | 0    |

| Method Group | Analyte Group (Units) | Lab Code | Lab Data |        | Method Values |           |        |         | AAFCO PT Z Score | Your Method | Flag |
|--------------|-----------------------|----------|----------|--------|---------------|-----------|--------|---------|------------------|-------------|------|
|              |                       |          | Value    | Range  | Rob Mean      | Robust SD | R-bar  | # Tests |                  |             |      |
| 520          | Chromium (ppm)        | 0171     | 0.3375   | 0.0250 | 0.2655        | 0.0767    | 0.0214 | 4       | 520.41           | 0           |      |
| 520          | Chromium (ppm)        | 0918     | 0.8815   | 0.0114 | 0.2655        | 0.0767    | 0.0214 | 4       | 520.53           | 2           |      |
| 526          | Lead (ppm)            | 0407     | 0.0260   | 0.0000 | 0.0364        | 0.0100    | 0.0039 | 4       | 526.41           | 0           |      |
| 526          | Lead (ppm)            | 0227     | 0.0295   | 0.0050 | 0.0364        | 0.0100    | 0.0039 | 4       | 526.53           | 0           |      |
| 526          | Lead (ppm)            | 0553     | 0.0449   | 0.0029 | 0.0364        | 0.0100    | 0.0039 | 4       | 526.53           | 0           |      |
| 526          | Lead (ppm)            | 0918     | 0.0451   | 0.0077 | 0.0364        | 0.0100    | 0.0039 | 4       | 526.53           | 0           |      |
| 539          | Nickel (ppm)          | 0171     | 2.770    | 0.0800 | 3.222         | 0.5179    | 0.0926 | 4       | 539.41           | 0           |      |
| 539          | Nickel (ppm)          | 0407     | 2.797    | 0.2122 | 3.222         | 0.5179    | 0.0926 | 4       | 539.41           | 0           |      |
| 539          | Nickel (ppm)          | 0553     | 3.530    | 0.0200 | 3.222         | 0.5179    | 0.0926 | 4       | 539.53           | 0           |      |
| 539          | Nickel (ppm)          | 0918     | 3.792    | 0.0581 | 3.222         | 0.5179    | 0.0926 | 4       | 539.53           | 0           |      |

Notes: Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = Rejected for duplicates too far apart, 2 = Rejected as outlier, 5 = A reporting limit and 4 = zeros submitted as values. Robust statistics not used if < 6 labs reporting, in the case of 4 or 5 labs reporting Means and SD's may be reported based on Raw Data with obvious blunders removed (Mandel h and k exclusions apply; Grey). Flag 3 indicates not used in statistics.