

# AAFCO Check Sample Program

All Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201342

Soya Flour

Pet Food Add-on



# AAFCO

## Check Sample Program



| Method Code | Total # Labs Submitting | # Labs Included in Calculations | Mean    | SD      | Assigned Value - Robust Mean | AAFCO CS fp - Robust sd | Uncertainty (U) - Robust | % RSD - Robust | Between Labs sL | Within Labs sI | Reproducibility sR | Between Labs %RSD | Within Labs %s/d | Reproducibility %RSD | sR/sr  | Average Range (R-bar) | Horwitz %RSD |
|-------------|-------------------------|---------------------------------|---------|---------|------------------------------|-------------------------|--------------------------|----------------|-----------------|----------------|--------------------|-------------------|------------------|----------------------|--------|-----------------------|--------------|
| 001.00      | 8                       | 4                               | 5.3925  | 0.46437 | 5.3925                       | 0.46437                 | 0.16418                  | 8.61%          | 0.46288         | 0.05268        | 0.46586            | 8.58%             | 0.98%            | 8.64%                | 8.8436 | 0.07000               | 3.10%        |
| 001.07      | 6                       | 5                               | 5.6720  | 0.49687 | 5.6021                       | 0.52330                 | 0.15106                  | 9.34%          | 0.49383         | 0.07759        | 0.49989            | 8.71%             | 1.37%            | 8.81%                | 6.4429 | 0.13167               | 3.09%        |
| 002.00      | 1                       |                                 | 49.495  |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 002.02      | 1                       |                                 | 49.780  |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 002.03      | 1                       |                                 | 50.470  |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 002.04      | 1                       |                                 | 50.625  |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 002.05      | 1                       |                                 | 49.391  |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 002.06      | 121                     | 39                              | 50.561  | 0.51239 | 50.613                       | 0.40553                 | 0.04373                  | 0.80%          | 0.49130         | 0.20577        | 0.53265            | 0.97%             | 0.41%            | 1.05%                | 2.5886 | 0.29207               | 2.22%        |
| 002.08      | 1                       |                                 | 50.200  |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 002.99      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 003.00      | 5                       | 4                               | 0.70750 | 0.07708 | 0.83000                      | 0.28194                 | 0.08916                  | 33.97%         | 0.06147         | 0.06576        | 0.09002            | 8.69%             | 9.30%            | 12.72%               | 1.3689 | 0.07200               | 4.11%        |
| 003.01      | 1                       |                                 | 1.2100  |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 003.06      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 003.09      | 4                       | 4                               | 0.58190 | 0.19625 | 0.58190                      | 0.19625                 | 0.06938                  | 33.73%         | 0.19361         | 0.04536        | 0.19885            | 33.27%            | 7.80%            | 34.17%               | 4.3839 | 0.05740               | 4.34%        |
| 003.10      | 7                       | 3                               | 0.43167 | 0.07506 | 0.48625                      | 0.12519                 | 0.04426                  | 25.75%         | 0.07489         | 0.00707        | 0.07522            | 17.35%            | 1.64%            | 17.43%               | 10.638 | 0.02250               | 4.46%        |
| 003.12      | 1                       |                                 | 0.52000 |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 003.13      | 4                       | 4                               | 0.55375 | 0.34946 | 0.55375                      | 0.34946                 | 0.12355                  | 63.11%         | 0.34571         | 0.07220        | 0.35317            | 62.43%            | 13.04%           | 63.78%               | 4.8917 | 0.08250               | 4.37%        |
| 003.14      | 1                       |                                 | 1.0550  |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 003.99      | 6                       | 3                               | 1.9917  | 1.2844  | 1.9917                       | 1.2844                  | 0.52437                  | 64.49%         | 1.2840          | 0.04848        | 1.2849             | 64.47%            | 2.43%            | 64.51%               | 26.506 | 0.05667               | 3.61%        |
| 004.00      | 10                      | 9                               | 3.2391  | 0.37519 | 3.2522                       | 0.19959                 | 0.04704                  | 6.14%          | 0.37147         | 0.07453        | 0.37887            | 11.47%            | 2.30%            | 11.70%               | 5.0832 | 0.08289               | 3.35%        |
| 004.07      | 7                       | 7                               | 3.1586  | 0.29891 | 3.1625                       | 0.33008                 | 0.08822                  | 10.44%         | 0.29270         | 0.08569        | 0.30499            | 9.27%             | 2.71%            | 9.66%                | 3.5592 | 0.09714               | 3.36%        |
| 005.00      | 103                     | 32                              | 6.0263  | 0.28844 | 6.0173                       | 0.24745                 | 0.02958                  | 4.11%          | 0.28299         | 0.07890        | 0.29378            | 4.70%             | 1.31%            | 4.88%                | 3.7233 | 0.08972               | 3.05%        |
| 005.03      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 005.05      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 005.99      | 3                       | 2                               | 6.2125  | 0.85913 | 6.2683                       | 0.61515                 | 0.25113                  | 9.81%          | 0.85910         | 0.01118        | 0.85917            | 13.83%            | 0.18%            | 13.83%               | 76.847 | 0.13000               | 3.03%        |
| 006.99      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 008.02      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |

| Method Code | Total # Labs Submitting | # Labs Included in Calculations | Mean    | SD      | Assigned Value - Robust Mean | AAFCO CS ftp - Robust sd | Uncertainty (U) - Robust | % RSD - Robust | Between Labs sL | Within Labs sr | Reproducibility sR | Between Labs %RSD | Within Labs %rsd | Reproducibility %RSD | sR/sr  | Average Range (R-bar) | Horwitz %RSD |
|-------------|-------------------------|---------------------------------|---------|---------|------------------------------|--------------------------|--------------------------|----------------|-----------------|----------------|--------------------|-------------------|------------------|----------------------|--------|-----------------------|--------------|
| 008.08      | 2                       | 0                               |         |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 009.04      | 1                       |                                 | 6.3350  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 009.07      | 1                       |                                 | 6.8500  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 009.09      | 1                       |                                 | 4.5150  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 010.03      | 2                       | 0                               |         |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 010.99      | 2                       | 0                               |         |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 011.01      | 77                      | 27                              | 6.1923  | 0.47653 | 6.2778                       | 0.35950                  | 0.04804                  | 5.73%          | 0.47402         | 0.06905        | 0.47902            | 7.65%             | 1.12%            | 7.74%                | 6.9369 | 0.07893               | 3.03%        |
| 011.02      | 4                       | 0                               |         |         | 6.0818                       | 0.26410                  | 0.13205                  | 4.34%          |                 |                |                    |                   |                  |                      |        | 0.32450               | 3.05%        |
| 011.03      | 27                      | 2                               | 6.1625  | 0.05303 | 6.2217                       | 0.10913                  | 0.04455                  | 1.75%          | 0.05292         | 0.00500        | 0.05315            | 0.86%             | 0.08%            | 0.86%                | 10.630 | 0.03000               | 3.04%        |
| 012.01      | 1                       |                                 | 2.1550  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 013.00      | 4                       | 3                               | 3.1500  | 0.75550 | 3.1500                       | 0.75550                  | 0.30843                  | 23.98%         | 0.72601         | 0.29558        | 0.78387            | 23.05%            | 9.38%            | 24.88%               | 2.6520 | 0.32667               | 3.37%        |
| 013.02      | 88                      | 18                              | 2.8926  | 0.72294 | 2.8160                       | 0.65163                  | 0.10571                  | 23.14%         | 0.72026         | 0.08803        | 0.72562            | 24.90%            | 3.04%            | 25.09%               | 8.2427 | 0.10529               | 3.42%        |
| 013.10      | 3                       | 3                               | 1.5200  | 0.82819 | 1.5200                       | 0.82819                  | 0.33811                  | 54.49%         | 0.82365         | 0.12247        | 0.83271            | 54.19%            | 8.06%            | 54.78%               | 6.7990 | 0.14000               | 3.76%        |
| 013.12      | 1                       |                                 | 2.3850  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 013.13      | 1                       |                                 | 1.1000  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 019.31      | 2                       | 0                               |         |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 019.32      | 1                       |                                 | 0.28950 |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 019.33      | 1                       |                                 | 0.30900 |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 019.41      | 4                       | 4                               | 0.27491 | 0.01476 | 0.27491                      | 0.01476                  | 0.00522                  | 5.37%          | 0.01406         | 0.00636        | 0.01543            | 5.11%             | 2.31%            | 5.61%                | 2.4274 | 0.00778               | 4.86%        |
| 019.42      | 1                       |                                 | 0.26400 |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 019.43      | 1                       |                                 | 2.8150  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 019.44      | 1                       |                                 | 0.27800 |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 021.41      | 1                       |                                 | 0.05000 |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 021.52      | 1                       |                                 | 0.06500 |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 022.31      | 1                       |                                 | 15.500  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 022.32      | 1                       |                                 | 14.150  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 022.33      | 1                       |                                 | 6.0100  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 022.41      | 7                       | 6                               | 15.086  | 0.82976 | 15.306                       | 1.0844                   | 0.28981                  | 7.08%          | 0.65731         | 0.71618        | 0.97209            | 4.36%             | 4.75%            | 6.44%                | 1.3573 | 1.2214                | 10.61%       |
| 022.43      | 2                       | 0                               |         |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 022.44      | 1                       |                                 | 15.950  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 022.52      | 1                       |                                 | 12.800  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 025.31      | 3                       | 3                               | 84.050  | 19.474  | 84.050                       | 19.474                   | 7.9502                   | 23.17%         | 19.192          | 4.6664         | 19.751             | 22.83%            | 5.55%            | 23.50%               | 4.2327 | 5.6333                | 8.21%        |
| 025.32      | 1                       |                                 | 74.950  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 025.41      | 8                       | 7                               | 75.543  | 3.7920  | 74.726                       | 2.2385                   | 0.55963                  | 3.00%          | 3.5268          | 1.9705         | 4.0399             | 4.67%             | 2.61%            | 5.35%                | 2.0502 | 2.7000                | 8.36%        |
| 025.42      | 1                       |                                 | 85.445  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 025.43      | 1                       |                                 | 99.350  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 025.52      | 1                       |                                 | 65.700  |         |                              |                          |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 027.31      | 4                       | 4                               | 0.29260 | 0.00570 | 0.29260                      | 0.00570                  | 0.00202                  | 1.95%          | 0.00267         | 0.00713        | 0.00761            | 0.91%             | 2.44%            | 2.60%                | 1.0678 | 0.00770               | 4.81%        |

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|-------------|-------------------------|---------------------------------|---------|---------|------------------------------|-------------------------|--------------------------|----------------|-----------------|----------------|--------------------|-------------------|-------------------|----------------------|--------|-----------------------|--------------|
| 027.32      | 1                       |                                 | 0.29350 |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 027.33      | 1                       |                                 | 0.25750 |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 027.41      | 7                       | 7                               | 0.29528 | 0.01137 | 0.29500                      | 0.00798                 | 0.00213                  | 2.71%          | 0.00848         | 0.01071        | 0.01366            | 2.87%             | 3.63%             | 4.63%                | 1.2752 | 0.01179               | 4.81%        |
| 027.43      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 027.44      | 1                       |                                 | 0.29950 |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 027.52      | 1                       |                                 | 0.32500 |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 028.31      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 028.32      | 1                       |                                 | 31.000  |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 028.41      | 7                       | 7                               | 33.514  | 1.4826  | 33.376                       | 1.3203                  | 0.35286                  | 3.96%          | 1.3602          | 0.83430        | 1.5957             | 4.06%             | 2.49%             | 4.76%                | 1.9126 | 0.89571               | 9.44%        |
| 028.43      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 028.44      | 1                       |                                 | 35.400  |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 028.52      | 1                       |                                 | 31.600  |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 031.01      | 4                       | 3                               | 0.68458 | 0.01511 | 0.67844                      | 0.01742                 | 0.00616                  | 2.57%          | 0.01481         | 0.00427        | 0.01541            | 2.16%             | 0.62%             | 2.25%                | 3.6116 | 0.01388               | 4.24%        |
| 031.03      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 031.41      | 7                       | 6                               | 0.70049 | 0.01027 | 0.70360                      | 0.01414                 | 0.00378                  | 2.01%          | 0.00628         | 0.01149        | 0.01310            | 0.90%             | 1.64%             | 1.87%                | 1.1397 | 0.01527               | 4.22%        |
| 031.42      | 1                       |                                 | 0.67100 |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 031.43      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 031.44      | 1                       |                                 | 0.73300 |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 032.02      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 032.31      | 4                       | 4                               | 2.0874  | 0.40444 | 2.0874                       | 0.40444                 | 0.14299                  | 19.38%         | 0.39542         | 0.12016        | 0.41327            | 18.94%            | 5.76%             | 19.80%               | 3.4392 | 0.12625               | 3.58%        |
| 032.41      | 7                       | 7                               | 2.3513  | 0.08114 | 2.3568                       | 0.05571                 | 0.01489                  | 2.36%          | 0.07764         | 0.03334        | 0.08450            | 3.30%             | 1.42%             | 3.59%                | 2.5345 | 0.03623               | 3.52%        |
| 032.42      | 1                       |                                 | 2.2250  |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 032.43      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 032.44      | 1                       |                                 | 2.4100  |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 033.01      | 3                       | 3                               | 0.09472 | 0.03814 | 0.09472                      | 0.03814                 | 0.01557                  | 40.27%         | 0.03759         | 0.00915        | 0.03869            | 39.69%            | 9.66%             | 40.85%               | 4.2287 | 0.01050               | 5.70%        |
| 034.04      | 1                       |                                 | 0.51050 |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 034.52      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 035.05      | 1                       |                                 | 0.00000 |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 035.31      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 035.41      | 4                       | 4                               | 0.00853 | 0.00838 | 0.00853                      | 0.00838                 | 0.00296                  | 98.35%         | 0.00833         | 0.00133        | 0.00844            | 97.73%            | 15.65%            | 98.97%               | 6.3242 | 0.00130               | 8.19%        |
| 035.42      | 1                       |                                 | 0.00900 |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 036.04      | 1                       |                                 | 0.45000 |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 036.42      | 1                       |                                 | 0.41500 |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 036.43      | 1                       |                                 | 0.39600 |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 037.31      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 037.32      | 1                       |                                 | 48.800  |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 037.33      | 1                       |                                 | 39.550  |         |                              |                         |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 037.41      | 4                       | 4                               | 54.786  | 5.5726  | 54.786                       | 5.5726                  | 1.9702                   | 10.17%         | 5.1416          | 3.0392         | 5.9727             | 9.38%             | 5.55%             | 10.90%               | 1.9652 | 3.7775                | 8.76%        |

| Method Code | Total # Labs Submitting | # Labs Included in Calculations | Mean    | SD      | Assigned Value - Robust Mean | AAFCO CS fp - Robust sd | Uncertainty (U) - Robust | % RSD - Robust | Between Labs sL | Within Labs sr | Reproducibility sR | Between Labs %RSD | Within Labs %rsd | Reproducibility %RSD | sR/sr  | Average Range (R-bar) | Horwitz %RSD |
|-------------|-------------------------|---------------------------------|---------|---------|------------------------------|-------------------------|--------------------------|----------------|-----------------|----------------|--------------------|-------------------|------------------|----------------------|--------|-----------------------|--------------|
| 037.43      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 037.44      | 1                       |                                 | 51.250  |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 037.52      | 1                       |                                 | 40.550  |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 038.41      | 1                       |                                 | 4.5650  |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 038.43      | 1                       |                                 | 5.7100  |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 038.52      | 1                       |                                 | 5.4000  |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 040.43      | 1                       |                                 | 5.0450  |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 101.01      | 1                       |                                 | 1,205.0 |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 105.00      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 113.01      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 120.00      | 3                       | 3                               | 2.0967  | 0.05752 | 2.0967                       | 0.05752                 | 0.02348                  | 2.74%          | 0.05620         | 0.01732        | 0.05881            | 2.68%             | 0.83%            | 2.80%                | 3.3953 | 0.02000               | 3.58%        |
| 121.00      | 3                       | 3                               | 3.6483  | 0.03617 | 3.6483                       | 0.03617                 | 0.01477                  | 0.99%          | 0.03109         | 0.02614        | 0.04062            | 0.85%             | 0.72%            | 1.11%                | 1.5539 | 0.03000               | 3.29%        |
| 122.00      | 3                       | 3                               | 5.7183  | 0.21704 | 5.7183                       | 0.21704                 | 0.08861                  | 3.80%          | 0.21440         | 0.04778        | 0.21966            | 3.75%             | 0.84%            | 3.84%                | 4.5969 | 0.05667               | 3.08%        |
| 124.00      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 125.00      | 3                       | 3                               | 9.0700  | 0.54541 | 9.0700                       | 0.54541                 | 0.22266                  | 6.01%          | 0.54086         | 0.09950        | 0.54993            | 5.96%             | 1.10%            | 6.06%                | 5.5270 | 0.13333               | 2.87%        |
| 126.00      | 3                       | 3                               | 2.0817  | 0.07006 | 2.0817                       | 0.07006                 | 0.02860                  | 3.37%          | 0.06733         | 0.02739        | 0.07269            | 3.23%             | 1.32%            | 3.49%                | 2.6541 | 0.03000               | 3.58%        |
| 127.00      | 3                       | 3                               | 1.3033  | 0.04010 | 1.3033                       | 0.04010                 | 0.01637                  | 3.08%          | 0.03990         | 0.00577        | 0.04031            | 3.06%             | 0.44%            | 3.09%                | 6.9821 | 0.00667               | 3.84%        |
| 128.00      | 3                       | 3                               | 2.2733  | 0.06825 | 2.2733                       | 0.06825                 | 0.02786                  | 3.00%          | 0.06714         | 0.01732        | 0.06934            | 2.95%             | 0.76%            | 3.05%                | 4.0035 | 0.02000               | 3.53%        |
| 129.00      | 3                       | 3                               | 3.8483  | 0.13512 | 3.8483                       | 0.13512                 | 0.05516                  | 3.51%          | 0.13006         | 0.05180        | 0.14000            | 3.38%             | 1.35%            | 3.64%                | 2.7027 | 0.07000               | 3.27%        |
| 130.00      | 3                       | 3                               | 3.2283  | 0.14751 | 3.2283                       | 0.14751                 | 0.06022                  | 4.57%          | 0.14474         | 0.04021        | 0.15022            | 4.48%             | 1.25%            | 4.65%                | 3.7361 | 0.04333               | 3.35%        |
| 131.00      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 132.00      | 3                       | 3                               | 2.5450  | 0.07858 | 2.5450                       | 0.07858                 | 0.03208                  | 3.09%          | 0.07703         | 0.02198        | 0.08010            | 3.03%             | 0.86%            | 3.15%                | 3.6436 | 0.03000               | 3.48%        |
| 133.00      | 3                       | 3                               | 2.5367  | 0.15011 | 2.5367                       | 0.15011                 | 0.06128                  | 5.92%          | 0.13153         | 0.10231        | 0.16663            | 5.19%             | 4.03%            | 6.57%                | 1.6288 | 0.11333               | 3.48%        |
| 134.00      | 3                       | 2                               | 2.6275  | 0.00354 | 2.4900                       | 0.23817                 | 0.09723                  | 9.57%          |                 | 0.04272        |                    |                   | 1.63%            |                      |        | 0.05333               | 3.49%        |
| 135.00      | 3                       | 3                               | 1.9117  | 0.18319 | 1.9117                       | 0.18319                 | 0.07479                  | 9.58%          | 0.18280         | 0.01683        | 0.18358            | 9.56%             | 0.88%            | 9.60%                | 10.906 | 0.01667               | 3.63%        |
| 136.00      | 1                       |                                 | 0.75400 |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 136.99      | 1                       |                                 | 0.77000 |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 137.00      | 3                       | 3                               | 1.7233  | 0.07234 | 1.7233                       | 0.07234                 | 0.02953                  | 4.20%          | 0.07024         | 0.02449        | 0.07439            | 4.08%             | 1.42%            | 4.32%                | 3.0368 | 0.03333               | 3.69%        |
| 138.00      | 3                       | 3                               | 2.4200  | 0.05635 | 2.4200                       | 0.05635                 | 0.02300                  | 2.33%          | 0.05439         | 0.02082        | 0.05824            | 2.25%             | 0.86%            | 2.41%                | 2.7977 | 0.02000               | 3.50%        |
| 139.00      | 1                       |                                 | 0.03000 |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 160.99      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 161.99      | 1                       |                                 | 0.00000 |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 162.99      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 163.99      | 1                       |                                 | 0.00000 |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 164.99      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 165.99      | 2                       | 0                               |         |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 400.01      | 1                       |                                 | 0.30000 |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |
| 516.00      | 1                       |                                 | 0.01750 |         |                              |                         |                          |                |                 |                |                    |                   |                  |                      |        |                       |              |

| Method Code | Total # Labs Submitting | # Labs Included in Calculations | Mean    | SD      | Assigned Value - Robust Mean | AAFCCO CS ffp - Robust sd | Uncertainty (U) - Robust | % RSD - Robust | Between Labs sL | Within Labs sr | Reproducibility sR | Between Labs %RSD | Within Labs %/rsd | Reproducibility %RSD | sR/sr  | Average Range (R-bar) | Horwitz %RSD |
|-------------|-------------------------|---------------------------------|---------|---------|------------------------------|---------------------------|--------------------------|----------------|-----------------|----------------|--------------------|-------------------|-------------------|----------------------|--------|-----------------------|--------------|
| 516.52      | 1                       |                                 | 0.03000 |         |                              |                           |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 518.41      | 1                       |                                 | 0.05000 |         |                              |                           |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 518.52      | 1                       |                                 | 0.07000 |         |                              |                           |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 518.53      | 1                       |                                 | 0.06100 |         |                              |                           |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 520.41      | 1                       |                                 | 0.27500 |         |                              |                           |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 526.41      | 1                       |                                 | 0.00000 |         |                              |                           |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 526.52      | 1                       |                                 | 0.03500 |         |                              |                           |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 526.53      | 1                       |                                 | 0.00000 |         |                              |                           |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 529.99      | 3                       | 2                               | 0.01750 | 0.02475 | 1.5117                       | 2.5880                    | 1.0566                   | 171.20%        | 0.02449         | 0.00500        | 0.02500            | 139.97%           | 28.57%            | 142.86%              | 5.0000 | 1.6700                | 42.51%       |
| 539.41      | 1                       |                                 | 6.6900  |         |                              |                           |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 539.43      | 2                       | 0                               |         |         |                              |                           |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |
| 539.52      | 1                       |                                 | 6.7000  |         |                              |                           |                          |                |                 |                |                    |                   |                   |                      |        |                       |              |