

AAFCO Check Sample Program
All Methods Report



AAFCO
Check Sample Program



Proficiency For Individual Methods
Sample # 201541
Brewers Dried Yeast
Pet Food Program

Labs Reporting: 57
Issue Date : 04/30/2015

| Method Code | Total # Labs Submitting | # Labs in Method Precision Calcs | Mean | SD | Assigned Value - Robust Mean | AAFCO 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 |
|-------------|-------------------------|----------------------------------|---------|---------|------------------------------|--------------------------|--------------------------|----------------|-----------------|----------------|--------------------|-------------------|-------------------|----------------------|---------|-----------------------|--------------|
| 001.00 | 1 | | 3.7670 | | | | | | | | | | | | | | |
| 001.03 | 1 | | 5.3900 | | | | | | | | | | | | | | |
| 001.07 | 6 | 5 | 4.0739 | 0.07770 | 4.1049 | 0.07278 | 0.02101 | 1.77% | 0.06493 | 0.06035 | 0.08865 | 1.59% | 1.48% | 2.18% | 1.4689 | 0.08517 | 3.23% |
| 001.99 | 8 | 8 | 4.6394 | 0.30708 | 4.6450 | 0.17648 | 0.04412 | 3.80% | 0.30181 | 0.08012 | 0.31226 | 6.51% | 1.73% | 6.73% | 3.8975 | 0.08125 | 3.17% |
| 002.01 | 3 | 3 | 45.443 | 0.27295 | 45.443 | 0.27295 | 0.15759 | 0.60% | 0.21693 | 0.23428 | 0.31929 | 0.48% | 0.52% | 0.70% | 1.3629 | 0.22500 | 1.48% |
| 002.02 | 1 | | 44.225 | | | | | | | | | | | | | | |
| 002.04 | 1 | | 45.500 | | | | | | | | | | | | | | |
| 002.05 | 1 | | 45.995 | | | | | | | | | | | | | | |
| 002.06 | 45 | 39 | 45.898 | 0.27167 | 45.877 | 0.27197 | 0.02933 | 0.59% | 0.24380 | 0.16949 | 0.29693 | 0.53% | 0.37% | 0.65% | 1.7519 | 0.21867 | 1.48% |
| 002.07 | 1 | | 45.900 | | | | | | | | | | | | | | |
| 002.08 | 2 | 0 | | | | | | | | | | | | | | | |
| 002.99 | 3 | 3 | 45.383 | 0.41932 | 45.383 | 0.41932 | 0.24210 | 0.92% | 0.41433 | 0.09129 | 0.42426 | 0.91% | 0.20% | 0.93% | 4.6476 | 0.10000 | 1.48% |
| 003.00 | 2 | 0 | | | | | | | | | | | | | | | |
| 003.06 | 1 | | 0.38500 | | | | | | | | | | | | | | |
| 003.09 | 3 | 3 | 0.68000 | 0.33645 | 0.68000 | 0.33645 | 0.19425 | 49.48% | 0.30957 | 0.18637 | 0.36134 | 45.52% | 27.41% | 53.14% | 1.9388 | 0.20667 | 4.24% |
| 003.10 | 1 | | 0.28175 | | | | | | | | | | | | | | |
| 003.12 | 1 | | 0.32000 | | | | | | | | | | | | | | |
| 003.13 | 2 | 0 | | | | | | | | | | | | | | | |
| 003.14 | 3 | 2 | 0.33750 | 0.06010 | 0.33750 | 0.06010 | 0.04250 | 17.81% | 0.05745 | 0.02500 | 0.06265 | 17.02% | 7.41% | 18.56% | 2.5060 | 0.11667 | 4.71% |
| 003.99 | 1 | | 5.9600 | | | | | | | | | | | | | | |
| 004.00 | 9 | 8 | 1.9380 | 1.5286 | 1.9947 | 1.5023 | 0.35410 | 75.32% | 1.5235 | 0.17779 | 1.5338 | 78.61% | 9.17% | 79.14% | 8.6268 | 0.28769 | 3.60% |
| 004.03 | 1 | | 0.84000 | | | | | | | | | | | | | | |
| 004.06 | 1 | | 0.79000 | | | | | | | | | | | | | | |
| 004.07 | 9 | 8 | 1.0026 | 0.81591 | 1.2133 | 1.1238 | 0.26488 | 92.62% | 0.79186 | 0.27809 | 0.83927 | 78.98% | 27.74% | 83.71% | 3.0180 | 0.33041 | 3.89% |
| 005.00 | 33 | 30 | 5.1968 | 0.39456 | 5.2346 | 0.36881 | 0.04610 | 7.05% | 0.38406 | 0.12789 | 0.40479 | 7.39% | 2.46% | 7.79% | 3.1651 | 0.13031 | 3.12% |
| 005.05 | 2 | 0 | | | | | | | | | | | | | | | |
| 005.99 | 6 | 5 | 4.9350 | 0.37748 | 4.9375 | 0.38293 | 0.11054 | 7.76% | 0.37434 | 0.06863 | 0.38058 | 7.59% | 1.39% | 7.71% | 5.5455 | 0.13833 | 3.15% |
| 006.99 | 3 | 2 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | | 0.00000 | 0.00000 | 0.00000 | | | | 0.00490 | 22.00% | |
| 008.02 | 1 | | 1.1100 | | | | | | | | | | | | | | |
| 008.08 | 1 | | 4.3200 | | | | | | | | | | | | | | |
| 009.07 | 1 | | 1.4750 | | | | | | | | | | | | | | |
| 009.09 | 1 | | 2.8350 | | | | | | | | | | | | | | |

| Method Code | Total # Labs Submitting | # Labs in Method Precision Calcs | Mean | SD | Assigned Value - Robust Mean | AAFCO 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 |
|-------------|-------------------------|----------------------------------|---------|---------|------------------------------|--------------------------|--------------------------|----------------|-----------------|----------------|--------------------|-------------------|------------------|----------------------|--------|-----------------------|--------------|
| 010.03 | 1 | | 3.4050 | | | | | | | | | | | | | | |
| 010.99 | 4 | 4 | 4.0313 | 0.33641 | 4.0313 | 0.33641 | 0.16821 | 8.35% | 0.30040 | 0.21416 | 0.36892 | 7.45% | 5.31% | 9.15% | 1.7227 | 0.24750 | 3.24% |
| 011.01 | 18 | 17 | 6.5281 | 0.39710 | 6.5319 | 0.32385 | 0.05397 | 4.96% | 0.37286 | 0.19319 | 0.41994 | 5.71% | 2.96% | 6.43% | 2.1738 | 0.20808 | 3.02% |
| 011.02 | 4 | 4 | 5.9736 | 0.59123 | 5.9736 | 0.59123 | 0.29561 | 9.90% | 0.58839 | 0.08185 | 0.59405 | 9.85% | 1.37% | 9.94% | 7.2575 | 0.10013 | 3.06% |
| 012.00 | 1 | | 3.6500 | | | | | | | | | | | | | | |
| 012.01 | 2 | 0 | | | | | | | | | | | | | | | |
| 012.02 | 1 | | 2.0100 | | | | | | | | | | | | | | |
| 012.04 | 1 | | 0.60000 | | | | | | | | | | | | | | |
| 013.00 | 9 | 8 | 10.715 | 1.0431 | 10.545 | 1.2441 | 0.29324 | 11.80% | 1.0376 | 0.15062 | 1.0485 | 9.68% | 1.41% | 9.79% | 6.9609 | 0.21222 | 2.81% |
| 013.02 | 23 | 21 | 10.187 | 0.65811 | 10.116 | 0.69931 | 0.10311 | 6.91% | 0.62666 | 0.28427 | 0.68812 | 6.15% | 2.79% | 6.75% | 2.4207 | 0.32445 | 2.82% |
| 013.10 | 1 | | 9.5000 | | | | | | | | | | | | | | |
| 013.13 | 3 | 3 | 7.6569 | 2.0799 | 7.6569 | 2.0799 | 1.2008 | 27.16% | 2.0709 | 0.27355 | 2.0888 | 27.05% | 3.57% | 27.28% | 7.6361 | 0.31330 | 2.94% |
| 015.41 | 3 | 3 | 34.397 | 19.527 | 34.397 | 19.527 | 11.274 | 56.77% | 19.368 | 3.5273 | 19.686 | 56.31% | 10.25% | 57.23% | 5.5811 | 4.0547 | 9.39% |
| 017.43 | 1 | | 2.0000 | | | | | | | | | | | | | | |
| 019.31 | 3 | 3 | 0.05760 | 0.00645 | 0.05760 | 0.00645 | 0.00372 | 11.19% | | 0.01251 | | | 21.73% | | | 0.01400 | 6.15% |
| 019.41 | 11 | 9 | 0.06217 | 0.00403 | 0.06228 | 0.00402 | 0.00090 | 6.45% | 0.00398 | 0.00089 | 0.00408 | 6.40% | 1.44% | 6.56% | 4.5622 | 0.00157 | 6.07% |
| 019.42 | 5 | 4 | 0.06155 | 0.00832 | 0.06155 | 0.00832 | 0.00416 | 13.52% | 0.00826 | 0.00142 | 0.00838 | 13.42% | 2.30% | 13.62% | 5.9202 | 0.01984 | 6.08% |
| 019.43 | 7 | 7 | 0.06248 | 0.00683 | 0.06288 | 0.00514 | 0.00137 | 8.18% | 0.00679 | 0.00112 | 0.00688 | 10.87% | 1.79% | 11.01% | 6.1485 | 0.00107 | 6.07% |
| 019.44 | 4 | 4 | 0.05956 | 0.00096 | 0.05956 | 0.00096 | 0.00048 | 1.61% | | 0.00151 | | | 2.53% | | | 0.00158 | 6.12% |
| 019.52 | 1 | | 0.07200 | | | | | | | | | | | | | | |
| 021.41 | 1 | | 0.00000 | | | | | | | | | | | | | | |
| 021.43 | 2 | 0 | | | | | | | | | | | | | | | |
| 021.52 | 1 | | 0.00000 | | | | | | | | | | | | | | |
| 022.41 | 6 | 5 | 3.7001 | 1.1811 | 4.1952 | 1.7179 | 0.49592 | 40.95% | 1.0762 | 0.68817 | 1.2774 | 29.09% | 18.60% | 34.52% | 1.8563 | 0.99562 | 12.89% |
| 022.42 | 4 | 4 | 6.7380 | 2.0393 | 6.7380 | 2.0393 | 1.0197 | 30.27% | 1.9191 | 0.97561 | 2.1529 | 28.48% | 14.48% | 31.95% | 2.2067 | 0.89750 | 12.00% |
| 022.43 | 4 | 4 | 4.6938 | 0.54914 | 4.6938 | 0.54914 | 0.27457 | 11.70% | 0.52302 | 0.23667 | 0.57408 | 11.14% | 5.04% | 12.23% | 2.4256 | 0.26250 | 12.68% |
| 022.44 | 3 | 3 | 4.5400 | 0.32569 | 4.5400 | 0.32569 | 0.18804 | 7.17% | 0.32485 | 0.03317 | 0.32653 | 7.16% | 0.73% | 7.19% | 9.8454 | 0.04000 | 12.74% |
| 022.52 | 1 | | 4.6500 | | | | | | | | | | | | | | |
| 022.53 | 1 | | 4.1850 | | | | | | | | | | | | | | |
| 024.99 | 3 | 3 | 2.4050 | 0.09000 | 2.4050 | 0.09000 | 0.05196 | 3.74% | 0.08607 | 0.03719 | 0.09376 | 3.58% | 1.55% | 3.90% | 2.5210 | 0.05000 | 14.02% |
| 025.31 | 1 | | 43.250 | | | | | | | | | | | | | | |
| 025.41 | 12 | 11 | 39.869 | 5.2399 | 39.937 | 5.7947 | 1.2354 | 14.51% | 5.0301 | 2.0761 | 5.4417 | 12.62% | 5.21% | 13.65% | 2.6211 | 2.3818 | 9.18% |
| 025.42 | 4 | 3 | 41.952 | 6.3626 | 41.952 | 6.3626 | 3.6734 | 15.17% | 6.1094 | 2.5130 | 6.6061 | 14.56% | 5.99% | 15.75% | 2.6288 | 8.6975 | 9.12% |
| 025.43 | 6 | 5 | 40.838 | 3.7547 | 40.838 | 3.7547 | 1.1873 | 9.19% | 3.7514 | 0.22091 | 3.7579 | 9.19% | 0.54% | 9.20% | 17.011 | 0.18400 | 9.15% |
| 025.52 | 2 | 0 | | | | | | | | | | | | | | | |
| 027.31 | 2 | 0 | | | | | | | | | | | | | | | |
| 027.41 | 11 | 10 | 0.16704 | 0.01474 | 0.16847 | 0.01451 | 0.00309 | 8.61% | 0.01466 | 0.00221 | 0.01483 | 8.78% | 1.33% | 8.88% | 6.6962 | 0.00227 | 5.23% |
| 027.42 | 4 | 4 | 0.17613 | 0.00484 | 0.17613 | 0.00484 | 0.00242 | 2.75% | | 0.00951 | | | 5.40% | | | 0.00950 | 5.19% |
| 027.43 | 5 | 5 | 0.16180 | 0.02292 | 0.16180 | 0.02292 | 0.01025 | 14.17% | 0.02286 | 0.00231 | 0.02298 | 14.13% | 1.43% | 14.20% | 9.9288 | 0.00212 | 5.26% |
| 027.44 | 4 | 4 | 0.16888 | 0.00364 | 0.16888 | 0.00364 | 0.00182 | 2.15% | 0.00188 | 0.00440 | 0.00479 | 1.11% | 2.61% | 2.83% | 1.0876 | 0.00525 | 5.23% |
| 028.31 | 1 | | 12.900 | | | | | | | | | | | | | | |
| 028.41 | 10 | 9 | 12.485 | 0.98511 | 12.538 | 1.0189 | 0.24016 | 8.13% | 0.90434 | 0.55246 | 1.0597 | 7.24% | 4.43% | 8.49% | 1.9182 | 0.52022 | 10.93% |
| 028.42 | 4 | 4 | 13.864 | 1.7585 | 13.864 | 1.7585 | 0.87925 | 12.68% | 1.4262 | 1.4549 | 2.0373 | 10.29% | 10.49% | 14.70% | 1.4003 | 1.3975 | 10.77% |

| Method Code | Total # Labs Submitting | # Labs in Method Precision Calcs | Mean | SD | Assigned Value - Robust Mean | AAFCO 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 |
|-------------|-------------------------|----------------------------------|---------|---------|------------------------------|--------------------------|--------------------------|----------------|-----------------|----------------|--------------------|-------------------|------------------|----------------------|---------|-----------------------|--------------|
| 028.43 | 4 | 4 | 12.780 | 1.2454 | 12.780 | 1.2454 | 0.62270 | 9.74% | 1.2235 | 0.32852 | 1.2669 | 9.57% | 2.57% | 9.91% | 3.8563 | 0.39500 | 10.90% |
| 028.44 | 4 | 4 | 12.538 | 0.76635 | 12.538 | 0.76635 | 0.38317 | 6.11% | 0.73001 | 0.32977 | 0.80104 | 5.82% | 2.63% | 6.39% | 2.4291 | 0.37500 | 10.93% |
| 028.52 | 1 | | 13.500 | | | | | | | | | | | | | | |
| 031.01 | 3 | 3 | 0.96933 | 0.09288 | 0.96933 | 0.09288 | 0.05362 | 9.58% | 0.09133 | 0.02386 | 0.09440 | 9.42% | 2.46% | 9.74% | 3.9562 | 0.03200 | 4.02% |
| 031.03 | 3 | 3 | 1.0505 | 0.03884 | 1.0505 | 0.03884 | 0.02242 | 3.70% | 0.03834 | 0.00877 | 0.03933 | 3.65% | 0.83% | 3.74% | 4.4867 | 0.00967 | 3.97% |
| 031.41 | 10 | 10 | 1.0588 | 0.06876 | 1.0659 | 0.05389 | 0.01205 | 5.06% | 0.06764 | 0.01746 | 0.06986 | 6.39% | 1.65% | 6.60% | 4.0013 | 0.02163 | 3.96% |
| 031.42 | 5 | 4 | 1.0795 | 0.05943 | 1.0795 | 0.05943 | 0.02972 | 5.51% | 0.05885 | 0.01173 | 0.06001 | 5.45% | 1.09% | 5.56% | 5.1169 | 0.03890 | 3.95% |
| 031.43 | 8 | 7 | 1.0985 | 0.07857 | 1.0998 | 0.07887 | 0.01972 | 7.17% | 0.07721 | 0.02058 | 0.07990 | 7.03% | 1.87% | 7.27% | 3.8830 | 0.03504 | 3.94% |
| 031.44 | 4 | 4 | 1.0875 | 0.04481 | 1.0875 | 0.04481 | 0.02241 | 4.12% | 0.04238 | 0.02062 | 0.04713 | 3.90% | 1.90% | 4.33% | 2.2859 | 0.02500 | 3.95% |
| 032.02 | 1 | | 1.0450 | | | | | | | | | | | | | | |
| 032.31 | 2 | 0 | | | | | | | | | | | | | | | |
| 032.41 | 10 | 10 | 1.0205 | 0.08319 | 1.0215 | 0.07673 | 0.01716 | 7.51% | 0.08205 | 0.01942 | 0.08432 | 8.04% | 1.90% | 8.26% | 4.3429 | 0.02247 | 3.99% |
| 032.42 | 4 | 3 | 0.97297 | 0.06587 | 0.97297 | 0.06587 | 0.03803 | 6.77% | 0.06575 | 0.00577 | 0.06600 | 6.76% | 0.59% | 6.78% | 11.432 | 0.03000 | 4.02% |
| 032.43 | 5 | 5 | 0.98987 | 0.07301 | 0.98987 | 0.07301 | 0.03265 | 7.38% | 0.06850 | 0.03573 | 0.07725 | 6.92% | 3.61% | 7.80% | 2.1623 | 0.04102 | 4.01% |
| 032.44 | 4 | 4 | 1.0538 | 0.02175 | 1.0538 | 0.02175 | 0.01087 | 2.06% | | 0.03142 | | | 2.98% | | 0.03750 | 3.97% | |
| 033.00 | 2 | 0 | | | | | | | | | | | | | | | |
| 033.01 | 5 | 4 | 0.24750 | 0.01323 | 0.24750 | 0.01323 | 0.00661 | 5.34% | | 0.02398 | | | 9.69% | | 0.02200 | 4.94% | |
| 033.05 | 1 | | 0.24000 | | | | | | | | | | | | | | |
| 034.04 | 2 | 0 | | | | | | | | | | | | | | | |
| 034.34 | 1 | | 0.14350 | | | | | | | | | | | | | | |
| 034.42 | 1 | | 0.16450 | | | | | | | | | | | | | | |
| 034.43 | 1 | | 0.39070 | | | | | | | | | | | | | | |
| 034.52 | 1 | | 0.15000 | | | | | | | | | | | | | | |
| 034.53 | 1 | | 0.30000 | | | | | | | | | | | | | | |
| 034.99 | 4 | 4 | 0.25838 | 0.02492 | 0.25838 | 0.02492 | 0.01246 | 9.65% | 0.02405 | 0.00925 | 0.02577 | 9.31% | 3.58% | 9.97% | 2.7848 | 0.00925 | 19.61% |
| 035.05 | 1 | | 0.15500 | | | | | | | | | | | | | | |
| 035.31 | 2 | 0 | | | | | | | | | | | | | | | |
| 035.41 | 11 | 11 | 0.15295 | 0.01231 | 0.15235 | 0.01261 | 0.00269 | 8.28% | 0.01104 | 0.00768 | 0.01345 | 7.22% | 5.02% | 8.79% | 1.7523 | 0.00841 | 5.31% |
| 035.42 | 3 | 3 | 0.15543 | 0.01657 | 0.15543 | 0.01657 | 0.00957 | 10.66% | 0.01606 | 0.00577 | 0.01707 | 10.33% | 3.71% | 10.98% | 2.9558 | 0.00667 | 5.29% |
| 035.43 | 6 | 6 | 0.14511 | 0.01288 | 0.14594 | 0.01324 | 0.00382 | 9.07% | 0.01239 | 0.00500 | 0.01336 | 8.54% | 3.44% | 9.20% | 2.6736 | 0.00572 | 5.34% |
| 036.04 | 1 | | 0.41500 | | | | | | | | | | | | | | |
| 036.42 | 7 | 7 | 0.35299 | 0.06206 | 0.38163 | 0.01584 | 0.00423 | 4.15% | 0.06060 | 0.01897 | 0.06349 | 17.17% | 5.37% | 17.99% | 3.3478 | 0.01800 | 4.62% |
| 036.43 | 4 | 4 | 0.40571 | 0.02500 | 0.40571 | 0.02500 | 0.01250 | 6.16% | 0.02477 | 0.00474 | 0.02522 | 6.11% | 1.17% | 6.22% | 5.3225 | 0.00468 | 4.58% |
| 037.31 | 1 | | 83.600 | | | | | | | | | | | | | | |
| 037.41 | 8 | 7 | 86.191 | 10.162 | 89.563 | 9.5785 | 2.3946 | 10.69% | 9.4798 | 5.1760 | 10.801 | 11.00% | 6.01% | 12.53% | 2.0867 | 5.2643 | 8.13% |
| 037.42 | 4 | 3 | 86.993 | 17.075 | 86.993 | 17.075 | 9.8583 | 19.63% | 17.036 | 1.6330 | 17.114 | 19.58% | 1.88% | 19.67% | 10.480 | 6.5000 | 8.17% |
| 037.43 | 5 | 5 | 90.062 | 5.0041 | 90.062 | 5.0041 | 2.2379 | 5.56% | 4.8470 | 1.7588 | 5.1563 | 5.38% | 1.95% | 5.73% | 2.9317 | 2.1120 | 8.13% |
| 037.44 | 3 | 3 | 88.783 | 2.0108 | 88.783 | 2.0108 | 1.1609 | 2.26% | 1.5212 | 1.8597 | 2.4026 | 1.71% | 2.09% | 2.71% | 1.2920 | 2.3667 | 8.14% |
| 037.52 | 1 | | 94.500 | | | | | | | | | | | | | | |
| 038.41 | 2 | 0 | | | | | | | | | | | | | | | |
| 038.42 | 1 | | 1.4950 | | | | | | | | | | | | | | |
| 038.43 | 2 | 0 | | | | | | | | | | | | | | | |
| 038.52 | 1 | | 1.0900 | | | | | | | | | | | | | | |

| Method Code | Total # Labs Submitting | # Labs in Method Precision Calcs | 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 |
|-------------|-------------------------|----------------------------------|---------|---------|------------------------------|---------------------------|--------------------------|----------------|-----------------|----------------|--------------------|-------------------|------------------|----------------------|--------|-----------------------|--------------|
| 038.53 | 1 | | 0.94500 | | | | | | | | | | | | | | |
| 040.52 | 1 | | 0.36000 | | | | | | | | | | | | | | |
| 041.52 | 1 | | 0.00000 | | | | | | | | | | | | | | |
| 042.00 | 2 | 0 | | | | | | | | | | | | | | | |
| 042.99 | 1 | | 0.15000 | | | | | | | | | | | | | | |
| 101.01 | 2 | 0 | | | | | | | | | | | | | | | |
| 102.01 | 2 | 0 | | | | | | | | | | | | | | | |
| 103.02 | 2 | 0 | | | | | | | | | | | | | | | |
| 104.02 | 2 | 0 | | | | | | | | | | | | | | | |
| 104.03 | 1 | | 13.500 | | | | | | | | | | | | | | |
| 105.00 | 2 | 0 | | | | | | | | | | | | | | | |
| 105.99 | 2 | 0 | | | | | | | | | | | | | | | |
| 106.02 | 4 | 3 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | | 0.00000 | 0.00000 | 0.00000 | | | | | 0.00025 | |
| 107.00 | 2 | 0 | | | | | | | | | | | | | | | |
| 108.01 | 1 | | 0.00000 | | | | | | | | | | | | | | |
| 108.99 | 3 | 0 | | | | | | | | | | | | | | | 0.00000 |
| 109.02 | 4 | 3 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | | 0.00000 | 0.00000 | 0.00000 | | | | | 0.35000 | 22.00% |
| 112.00 | 2 | 0 | | | | | | | | | | | | | | | |
| 113.01 | 2 | 0 | | | | | | | | | | | | | | | |
| 114.01 | 2 | 0 | | | | | | | | | | | | | | | |
| 120.00 | 4 | 4 | 3.1320 | 0.16745 | 3.1320 | 0.16745 | 0.08373 | 5.35% | 0.16440 | 0.04504 | 0.17045 | 5.25% | 1.44% | 5.44% | 3.7846 | 0.04633 | 3.37% |
| 120.01 | 3 | 3 | 3.1583 | 0.07974 | 3.1583 | 0.07974 | 0.04604 | 2.52% | 0.07906 | 0.01472 | 0.08042 | 2.50% | 0.47% | 2.55% | 5.4632 | 0.01667 | 3.36% |
| 120.02 | 1 | | 2.9500 | | | | | | | | | | | | | | |
| 120.05 | 1 | | 3.1020 | | | | | | | | | | | | | | |
| 121.00 | 4 | 4 | 2.0747 | 0.06827 | 2.0747 | 0.06827 | 0.03413 | 3.29% | 0.06300 | 0.03719 | 0.07316 | 3.04% | 1.79% | 3.53% | 1.9670 | 0.03573 | 3.58% |
| 121.01 | 3 | 3 | 2.3883 | 0.13796 | 2.3883 | 0.13796 | 0.07965 | 5.78% | 0.13666 | 0.02677 | 0.13925 | 5.72% | 1.12% | 5.83% | 5.2017 | 0.03667 | 3.51% |
| 121.02 | 1 | | 2.1850 | | | | | | | | | | | | | | |
| 121.05 | 1 | | 1.9535 | | | | | | | | | | | | | | |
| 122.00 | 3 | 3 | 4.3932 | 0.15773 | 4.3932 | 0.15773 | 0.09107 | 3.59% | 0.15222 | 0.05845 | 0.16306 | 3.46% | 1.33% | 3.71% | 2.7895 | 0.05703 | 3.20% |
| 122.01 | 3 | 3 | 4.1933 | 0.10563 | 4.1933 | 0.10563 | 0.06099 | 2.52% | 0.10202 | 0.03873 | 0.10913 | 2.43% | 0.92% | 2.60% | 2.8176 | 0.04000 | 3.22% |
| 122.02 | 1 | | 3.9750 | | | | | | | | | | | | | | |
| 122.05 | 1 | | 4.3635 | | | | | | | | | | | | | | |
| 124.00 | 3 | 3 | 0.48822 | 0.04752 | 0.48822 | 0.04752 | 0.02743 | 9.73% | 0.04636 | 0.01472 | 0.04864 | 9.50% | 3.01% | 9.96% | 3.3046 | 0.01670 | 4.46% |
| 124.01 | 3 | 2 | 0.45600 | 0.04384 | 0.45600 | 0.04384 | 0.03100 | 9.61% | 0.04333 | 0.00943 | 0.04435 | 9.50% | 2.07% | 9.72% | 4.7006 | 0.16867 | 4.50% |
| 124.02 | 1 | | 0.62500 | | | | | | | | | | | | | | |
| 124.99 | 1 | | 0.31500 | | | | | | | | | | | | | | |
| 125.00 | 4 | 4 | 6.4855 | 1.5334 | 6.4855 | 1.5334 | 0.76672 | 23.64% | 1.5334 | 0.01522 | 1.5335 | 23.64% | 0.23% | 23.64% | 100.75 | 0.01683 | 3.02% |
| 125.01 | 3 | 3 | 5.5867 | 0.10275 | 5.5867 | 0.10275 | 0.05932 | 1.84% | 0.09561 | 0.05323 | 0.10943 | 1.71% | 0.95% | 1.96% | 2.0558 | 0.06000 | 3.09% |
| 125.02 | 1 | | 5.6000 | | | | | | | | | | | | | | |
| 125.05 | 1 | | 5.8480 | | | | | | | | | | | | | | |
| 126.00 | 4 | 4 | 1.9581 | 0.08001 | 1.9581 | 0.08001 | 0.04001 | 4.09% | 0.07726 | 0.02943 | 0.08267 | 3.95% | 1.50% | 4.22% | 2.8089 | 0.03388 | 3.62% |
| 126.01 | 3 | 3 | 1.9433 | 0.10324 | 1.9433 | 0.10324 | 0.05961 | 5.31% | 0.09385 | 0.06083 | 0.11184 | 4.83% | 3.13% | 5.76% | 1.8386 | 0.06667 | 3.62% |
| 126.05 | 1 | | 2.0530 | | | | | | | | | | | | | | |

| Method Code | Total # Labs Submitting | # Labs in Method Precision Calcs | Mean | SD | Assigned Value - Robust Mean | AAFCO 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 |
|-------------|-------------------------|----------------------------------|---------|---------|------------------------------|--------------------------|--------------------------|----------------|-----------------|----------------|--------------------|-------------------|------------------|----------------------|--------|-----------------------|--------------|
| 127.00 | 4 | 4 | 1.0116 | 0.02656 | 1.0116 | 0.02656 | 0.01328 | 2.63% | 0.02548 | 0.01061 | 0.02760 | 2.52% | 1.05% | 2.73% | 2.6021 | 0.01258 | 3.99% |
| 127.01 | 3 | 3 | 0.97517 | 0.04335 | 0.97517 | 0.04335 | 0.02503 | 4.45% | 0.04177 | 0.01640 | 0.04487 | 4.28% | 1.68% | 4.60% | 2.7367 | 0.02167 | 4.01% |
| 127.02 | 1 | | 1.0150 | | | | | | | | | | | | | | |
| 127.05 | 1 | | 1.0075 | | | | | | | | | | | | | | |
| 128.00 | 4 | 4 | 2.0772 | 0.11787 | 2.0772 | 0.11787 | 0.05893 | 5.67% | 0.11484 | 0.03758 | 0.12083 | 5.53% | 1.81% | 5.82% | 3.2154 | 0.04660 | 3.58% |
| 128.01 | 3 | 3 | 2.1800 | 0.05766 | 2.1800 | 0.05766 | 0.03329 | 2.65% | 0.03753 | 0.06191 | 0.07240 | 1.72% | 2.84% | 3.32% | 1.1694 | 0.06000 | 3.56% |
| 128.02 | 1 | | 1.9950 | | | | | | | | | | | | | | |
| 128.05 | 1 | | 1.7140 | | | | | | | | | | | | | | |
| 129.00 | 4 | 4 | 3.6749 | 0.07989 | 3.6749 | 0.07989 | 0.03995 | 2.17% | 0.07923 | 0.01459 | 0.08056 | 2.16% | 0.40% | 2.19% | 5.5225 | 0.01788 | 3.29% |
| 129.01 | 3 | 3 | 3.6200 | 0.05074 | 3.6200 | 0.05074 | 0.02930 | 1.40% | 0.04311 | 0.03786 | 0.05737 | 1.19% | 1.05% | 1.58% | 1.5154 | 0.04000 | 3.30% |
| 129.02 | 1 | | 3.5100 | | | | | | | | | | | | | | |
| 129.05 | 1 | | 3.5360 | | | | | | | | | | | | | | |
| 130.00 | 5 | 5 | 3.0790 | 0.10713 | 3.0790 | 0.10713 | 0.04791 | 3.48% | 0.09012 | 0.08190 | 0.12178 | 2.93% | 2.66% | 3.96% | 1.4869 | 0.08982 | 3.38% |
| 130.01 | 3 | 3 | 2.9250 | 0.38565 | 2.9250 | 0.38565 | 0.22265 | 13.18% | 0.38412 | 0.04848 | 0.38717 | 13.13% | 1.66% | 13.24% | 7.9867 | 0.06333 | 3.40% |
| 130.02 | 1 | | 3.3050 | | | | | | | | | | | | | | |
| 130.05 | 2 | 0 | | | | | | | | | | | | | | | |
| 130.99 | 1 | | 2.9600 | | | | | | | | | | | | | | |
| 131.00 | 3 | 3 | 0.78852 | 0.04513 | 0.78852 | 0.04513 | 0.02606 | 5.72% | 0.03793 | 0.03460 | 0.05134 | 4.81% | 4.39% | 6.51% | 1.4839 | 0.03870 | 4.15% |
| 131.01 | 3 | 3 | 0.76633 | 0.03418 | 0.76633 | 0.03418 | 0.01974 | 4.46% | 0.03133 | 0.01935 | 0.03682 | 4.09% | 2.52% | 4.80% | 1.9031 | 0.02467 | 4.16% |
| 131.02 | 1 | | 0.75000 | | | | | | | | | | | | | | |
| 131.99 | 1 | | 0.71300 | | | | | | | | | | | | | | |
| 132.00 | 3 | 3 | 1.9571 | 0.00622 | 1.9571 | 0.00622 | 0.00359 | 0.32% | | 0.04164 | | | 2.13% | | | 0.04073 | 3.62% |
| 132.01 | 3 | 3 | 1.9667 | 0.07974 | 1.9667 | 0.07974 | 0.04604 | 4.05% | 0.07730 | 0.02769 | 0.08211 | 3.93% | 1.41% | 4.17% | 2.9654 | 0.03333 | 3.61% |
| 132.02 | 1 | | 1.9100 | | | | | | | | | | | | | | |
| 132.05 | 1 | | 1.8295 | | | | | | | | | | | | | | |
| 133.00 | 4 | 4 | 2.0198 | 0.08588 | 2.0198 | 0.08588 | 0.04294 | 4.25% | 0.08368 | 0.02732 | 0.08803 | 4.14% | 1.35% | 4.36% | 3.2218 | 0.03663 | 3.60% |
| 133.04 | 1 | | 1.9250 | | | | | | | | | | | | | | |
| 133.05 | 1 | | 2.0540 | | | | | | | | | | | | | | |
| 133.99 | 3 | 3 | 1.9700 | 0.10817 | 1.9700 | 0.10817 | 0.06245 | 5.49% | 0.10724 | 0.02000 | 0.10909 | 5.44% | 1.02% | 5.54% | 5.4544 | 0.02667 | 3.61% |
| 134.00 | 4 | 4 | 2.1689 | 0.10679 | 2.1689 | 0.10679 | 0.05340 | 4.92% | 0.10121 | 0.04821 | 0.11210 | 4.67% | 2.22% | 5.17% | 2.3252 | 0.05350 | 3.56% |
| 134.01 | 3 | 3 | 2.1100 | 0.01803 | 2.1100 | 0.01803 | 0.01041 | 0.85% | 0.01443 | 0.01528 | 0.02102 | 0.68% | 0.72% | 1.00% | 1.3758 | 0.02000 | 3.57% |
| 134.02 | 1 | | 2.0350 | | | | | | | | | | | | | | |
| 134.05 | 1 | | 2.3155 | | | | | | | | | | | | | | |
| 135.00 | 3 | 3 | 2.1353 | 0.09276 | 2.1353 | 0.09276 | 0.05356 | 4.34% | 0.09193 | 0.01757 | 0.09359 | 4.31% | 0.82% | 4.38% | 5.3281 | 0.02077 | 3.57% |
| 135.01 | 3 | 2 | 2.1475 | 0.08132 | 2.1475 | 0.08132 | 0.05750 | 3.79% | 0.08124 | 0.00500 | 0.08139 | 3.78% | 0.23% | 3.79% | 16.279 | 0.03000 | 3.57% |
| 135.02 | 1 | | 1.9900 | | | | | | | | | | | | | | |
| 135.05 | 1 | | 2.2045 | | | | | | | | | | | | | | |
| 136.00 | 2 | 0 | | | | | | | | | | | | | | | |
| 136.01 | 1 | | 0.43100 | | | | | | | | | | | | | | |
| 136.02 | 1 | | 0.52000 | | | | | | | | | | | | | | |
| 136.99 | 4 | 3 | 0.54350 | 0.00740 | 0.54350 | 0.00740 | 0.00427 | 1.36% | | 0.01429 | | | 2.63% | | | 0.01725 | 4.38% |
| 137.00 | 3 | 3 | 1.3616 | 0.18882 | 1.3616 | 0.18882 | 0.10901 | 13.87% | 0.18751 | 0.03141 | 0.19012 | 13.77% | 2.31% | 13.96% | 6.0532 | 0.04087 | 3.82% |
| 137.01 | 3 | 3 | 1.7033 | 0.06506 | 1.7033 | 0.06506 | 0.03756 | 3.82% | 0.06245 | 0.02582 | 0.06758 | 3.67% | 1.52% | 3.97% | 2.6173 | 0.02667 | 3.69% |

| Method Code | Total # Labs Submitting | # Labs in Method Precision Calcs | Mean | SD | Assigned Value - Robust Mean | AAFCO 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 |
|-------------|-------------------------|----------------------------------|---------|---------|------------------------------|--------------------------|--------------------------|----------------|-----------------|----------------|--------------------|-------------------|------------------|----------------------|--------|-----------------------|--------------|
| 137.02 | 1 | | 1.6050 | | | | | | | | | | | | | | |
| 137.05 | 1 | | 1.3820 | | | | | | | | | | | | | | |
| 138.00 | 3 | 3 | 2.4642 | 0.19426 | 2.4642 | 0.19426 | 0.11216 | 7.88% | 0.19308 | 0.03024 | 0.19543 | 7.84% | 1.23% | 7.93% | 6.4618 | 0.03403 | 3.49% |
| 138.01 | 3 | 2 | 2.5250 | 0.00707 | 2.5250 | 0.00707 | 0.00500 | 0.28% | 0.00707 | 0.00000 | 0.00707 | 0.28% | 0.00% | 0.28% | | 0.00667 | 3.48% |
| 138.02 | 1 | | 2.1800 | | | | | | | | | | | | | | |
| 138.05 | 1 | | 2.0650 | | | | | | | | | | | | | | |
| 139.00 | 3 | 3 | 0.10567 | 0.08328 | 0.10567 | 0.08328 | 0.04808 | 78.82% | 0.08318 | 0.00577 | 0.08338 | 78.72% | 5.46% | 78.91% | 14.443 | 0.00667 | 5.61% |
| 139.01 | 1 | | 0.13850 | | | | | | | | | | | | | | |
| 139.05 | 1 | | 0.00000 | | | | | | | | | | | | | | |
| 160.99 | 3 | 0 | | | | | | | | | | | | | | 0.00000 | |
| 161.99 | 3 | 0 | | | | | | | | | | | | | | 0.00000 | |
| 162.99 | 3 | 2 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | | 0.00000 | 0.00000 | 0.00000 | | | | | 0.00003 | 22.00% |
| 163.99 | 4 | 3 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | | 0.00000 | 0.00000 | 0.00000 | | | | | 0.00750 | 22.00% |
| 164.99 | 3 | 2 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | 0.00000 | | 0.00000 | 0.00000 | 0.00000 | | | | | 0.00483 | 22.00% |
| 165.99 | 3 | 0 | | | | | | | | | | | | | | 0.00000 | |
| 400.01 | 1 | | 0.25350 | | | | | | | | | | | | | | |
| 400.99 | 1 | | 0.25050 | | | | | | | | | | | | | | |
| 516.00 | 1 | | 0.03750 | | | | | | | | | | | | | | |
| 516.42 | 1 | | 0.00000 | | | | | | | | | | | | | | |
| 516.52 | 1 | | 0.37500 | | | | | | | | | | | | | | |
| 518.41 | 1 | | 0.02000 | | | | | | | | | | | | | | |
| 518.42 | 1 | | 0.00000 | | | | | | | | | | | | | | |
| 518.43 | 1 | | 0.01770 | | | | | | | | | | | | | | |
| 518.52 | 1 | | 0.00000 | | | | | | | | | | | | | | |
| 520.41 | 1 | | 0.60000 | | | | | | | | | | | | | | |
| 520.43 | 2 | 0 | | | | | | | | | | | | | | | |
| 520.52 | 1 | | 0.60000 | | | | | | | | | | | | | | |
| 520.53 | 1 | | 0.37500 | | | | | | | | | | | | | | |
| 526.41 | 1 | | 0.00000 | | | | | | | | | | | | | | |
| 526.43 | 1 | | 0.12425 | | | | | | | | | | | | | | |
| 526.52 | 1 | | 0.00000 | | | | | | | | | | | | | | |
| 529.99 | 2 | 0 | | | | | | | | | | | | | | | |
| 539.43 | 1 | | 0.92645 | | | | | | | | | | | | | | |
| 539.52 | 1 | | 1.7000 | | | | | | | | | | | | | | |
| 539.53 | 1 | | 0.80000 | | | | | | | | | | | | | | |
| 710.99 | 1 | | 0.00150 | | | | | | | | | | | | | | |
| 718.99 | 1 | | 0.04000 | | | | | | | | | | | | | | |
| 726.99 | 1 | | 4.4950 | | | | | | | | | | | | | | |
| 728.99 | 1 | | 0.33500 | | | | | | | | | | | | | | |
| 736.99 | 1 | | 0.00000 | | | | | | | | | | | | | | |
| 740.99 | 1 | | 0.00000 | | | | | | | | | | | | | | |
| 746.99 | 1 | | 0.00000 | | | | | | | | | | | | | | |
| 750.99 | 1 | | 0.00000 | | | | | | | | | | | | | | |

| Method Code | Total # Labs Submitting | # Labs in Method Precision Calcs | 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 |
|-------------|-------------------------|----------------------------------|---------|----|------------------------------|---------------------------|--------------------------|----------------|-----------------|----------------|--------------------|-------------------|------------------|----------------------|-------|-----------------------|--------------|
| 754.99 | 1 | | 0.33500 | | | | | | | | | | | | | | |
| 756.99 | 1 | | 4.4950 | | | | | | | | | | | | | | |