

AAFCO Check Sample Program

Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201132

Swine grower/finisher, Medicated



AAFCO

Association of American Feed Control Officials

| Method Code | Total # Labs Submitting | # Labs Included in Calculations | Mean | SD | Assigned Value - Robust Mean | AAFCO CS ffp - Robust sd | Uncertainty (U) | % RSD | Between Labs sL | Within Labs sr | Reproducibility sR | Between Labs %RSD | Within Labs %rds | Reproducibility %RSD | sR/sr | Average Range (R-bar) |
|-------------|-------------------------|---------------------------------|---------|---------|------------------------------|--------------------------|-----------------|-------|-----------------|----------------|--------------------|-------------------|------------------|----------------------|--------|-----------------------|
| 000.01 | 2 | 2 | 0.26000 | 0.33941 | | | | | | | | | | | | |
| 001.00 | 11 | 7 | 10.838 | 0.40060 | 10.741 | 0.23282 | 0.06222 | 2.17% | 0.39136 | 0.12099 | 0.40963 | 3.61% | 1.12% | 3.78% | 3.3857 | 0.14821 |
| 001.03 | 18 | 17 | 10.897 | 0.25696 | 10.929 | 0.19481 | 0.03341 | 1.78% | 0.25582 | 0.03424 | 0.25810 | 2.35% | 0.31% | 2.37% | 7.5384 | 0.03271 |
| 001.05 | 1 | | 10.970 | | | | | | | | | | | | | |
| 001.07 | 37 | 36 | 10.769 | 0.51151 | 10.825 | 0.37806 | 0.04455 | 3.49% | 0.50318 | 0.12998 | 0.51970 | 4.67% | 1.21% | 4.83% | 3.9983 | 0.13817 |
| 001.08 | 4 | 3 | 11.090 | 0.27221 | 11.090 | 0.27221 | 0.11113 | 2.45% | 0.23854 | 0.18547 | 0.30216 | 2.15% | 1.67% | 2.72% | 1.6291 | 0.22667 |
| 001.99 | 17 | 15 | 10.553 | 1.0594 | 10.776 | 0.72192 | 0.13180 | 6.70% | 1.0580 | 0.07715 | 1.0608 | 10.03% | 0.73% | 10.05% | 13.750 | 0.08747 |
| 002.00 | 7 | 7 | 18.763 | 0.68177 | 18.601 | 0.30566 | 0.08169 | 1.64% | 0.66633 | 0.20403 | 0.69687 | 3.55% | 1.09% | 3.71% | 3.4155 | 0.23429 |
| 002.01 | 12 | 12 | 18.498 | 0.19427 | 18.498 | 0.19731 | 0.04028 | 1.07% | 0.17809 | 0.10976 | 0.20920 | 0.96% | 0.59% | 1.13% | 1.9059 | 0.11675 |
| 002.02 | 6 | 6 | 18.354 | 0.30778 | 18.354 | 0.34902 | 0.10075 | 1.90% | 0.26951 | 0.21019 | 0.34178 | 1.47% | 1.15% | 1.86% | 1.6261 | 0.21680 |
| 002.03 | 1 | | 17.270 | | | | | | | | | | | | | |
| 002.04 | 5 | 5 | 18.152 | 0.78408 | 18.152 | 0.78408 | 0.24795 | 4.32% | 0.77092 | 0.20234 | 0.79703 | 4.25% | 1.11% | 4.39% | 3.9391 | 0.23600 |
| 002.05 | 36 | 35 | 18.548 | 0.29589 | 18.537 | 0.17355 | 0.02074 | 0.94% | 0.29010 | 0.08236 | 0.30156 | 1.56% | 0.44% | 1.63% | 3.6615 | 0.08294 |
| 002.06 | 218 | 138 | 18.649 | 0.47040 | 18.652 | 0.27920 | 0.01681 | 1.50% | 0.45522 | 0.16764 | 0.48511 | 2.44% | 0.90% | 2.60% | 2.8937 | 0.17012 |
| 002.08 | 4 | 4 | 18.761 | 0.66169 | 18.761 | 0.66169 | 0.23394 | 3.53% | 0.65774 | 0.10206 | 0.66561 | 3.51% | 0.54% | 3.55% | 6.5218 | 0.12763 |
| 002.10 | 4 | 4 | 18.975 | 0.42577 | 18.975 | 0.42577 | 0.15053 | 2.24% | 0.39818 | 0.21321 | 0.45167 | 2.10% | 1.12% | 2.38% | 2.1185 | 0.17100 |
| 002.11 | 9 | 9 | 18.731 | 0.66746 | 18.752 | 0.57948 | 0.13658 | 3.09% | 0.65901 | 0.14978 | 0.67581 | 3.52% | 0.80% | 3.61% | 4.5121 | 0.19111 |
| 002.99 | 3 | 3 | 17.790 | 0.65475 | 17.790 | 0.65475 | 0.26730 | 3.68% | 0.65320 | 0.06377 | 0.65630 | 3.67% | 0.36% | 3.69% | 10.292 | 0.07333 |
| 003.00 | 25 | 25 | 6.4332 | 0.85113 | 6.5093 | 0.30681 | 0.04339 | 4.71% | 0.84307 | 0.16526 | 0.85911 | 13.11% | 2.57% | 13.35% | 5.1985 | 0.16940 |
| 003.01 | 2 | 2 | 5.0115 | 0.79698 | | | | | | | | | | | | |
| 003.06 | 20 | 19 | 6.2413 | 0.71257 | 6.4184 | 0.18105 | 0.02937 | 2.82% | 0.70711 | 0.12451 | 0.71799 | 11.33% | 2.00% | 11.50% | 5.7663 | 0.11050 |
| 003.09 | 24 | 23 | 6.4863 | 0.15972 | 6.4905 | 0.11954 | 0.01763 | 1.84% | 0.15290 | 0.06531 | 0.16626 | 2.36% | 1.01% | 2.56% | 2.5457 | 0.07020 |
| 003.10 | 38 | 37 | 6.2328 | 0.61707 | 6.3417 | 0.16896 | 0.01964 | 2.66% | 0.61463 | 0.07745 | 0.61950 | 9.86% | 1.24% | 9.94% | 7.9990 | 0.08052 |
| 003.11 | 9 | 9 | 6.3522 | 0.59970 | 6.5080 | 0.29492 | 0.06951 | 4.53% | 0.59867 | 0.04967 | 0.60073 | 9.42% | 0.78% | 9.46% | 12.096 | 0.05778 |
| 003.12 | 18 | 17 | 6.3185 | 0.57621 | 6.4438 | 0.23628 | 0.04052 | 3.67% | 0.57395 | 0.07209 | 0.57846 | 9.08% | 1.14% | 9.16% | 8.0241 | 0.06882 |
| 003.13 | 4 | 4 | 6.0241 | 0.56838 | 6.0241 | 0.56838 | 0.20095 | 9.44% | 0.56107 | 0.12856 | 0.57561 | 9.31% | 2.13% | 9.56% | 4.4773 | 0.16625 |
| 003.14 | 25 | 24 | 6.1229 | 0.58763 | 6.1921 | 0.26317 | 0.03799 | 4.25% | 0.58134 | 0.12122 | 0.59385 | 9.49% | 1.98% | 9.70% | 4.8988 | 0.13132 |

| Method Code | Total # Labs Submitting | # Labs Included in Calculations | Mean | SD | Assigned Value - Robust Mean | AAFCCO CS ffp - Robust sd | Uncertainty (U) | % RSD | Between Labs sL | Within Labs sr | Reproducibility sR | Between Labs %RSD | Within Labs %rstd | Reproducibility %RSD | sR/sr | Average Range (R-bar) |
|-------------|-------------------------|---------------------------------|--------|---------|------------------------------|---------------------------|-----------------|--------|-----------------|----------------|--------------------|-------------------|-------------------|----------------------|--------|-----------------------|
| 003.99 | 12 | 7 | 6.4014 | 0.69108 | 6.4709 | 0.64297 | 0.17184 | 9.94% | 0.68743 | 0.10036 | 0.69471 | 10.74% | 1.57% | 10.85% | 6.9224 | 0.10571 |
| 004.00 | 25 | 25 | 2.9343 | 0.36956 | 2.9096 | 0.35336 | 0.04997 | 12.14% | 0.35834 | 0.12782 | 0.38045 | 12.21% | 4.36% | 12.97% | 2.9765 | 0.13166 |
| 004.01 | 2 | 2 | 3.5450 | 0.21920 | | | | | | | | | | | | |
| 004.03 | 3 | 3 | 3.3050 | 0.21754 | 3.3050 | 0.21754 | 0.08881 | 6.58% | 0.20932 | 0.08377 | 0.22546 | 6.33% | 2.53% | 6.82% | 2.6916 | 0.09667 |
| 004.06 | 43 | 42 | 3.1311 | 0.37600 | 3.1119 | 0.32023 | 0.03494 | 10.29% | 0.36932 | 0.09981 | 0.38257 | 11.80% | 3.19% | 12.22% | 3.8330 | 0.09292 |
| 004.07 | 55 | 54 | 2.9898 | 0.37728 | 2.9594 | 0.33245 | 0.03199 | 11.23% | 0.36697 | 0.12388 | 0.38732 | 12.27% | 4.14% | 12.95% | 3.1265 | 0.13139 |
| 004.11 | 5 | 5 | 3.2890 | 0.33270 | 3.2890 | 0.33270 | 0.10521 | 10.12% | 0.33133 | 0.04278 | 0.33408 | 10.07% | 1.30% | 10.16% | 7.8095 | 0.05000 |
| 004.99 | 1 | | 3.0750 | | | | | | | | | | | | | |
| 005.00 | 185 | 114 | 5.2864 | 0.17669 | 5.2856 | 0.19176 | 0.01270 | 3.63% | 0.17078 | 0.06408 | 0.18240 | 3.23% | 1.21% | 3.45% | 2.8467 | 0.06765 |
| 005.01 | 1 | | 5.1250 | | | | | | | | | | | | | |
| 005.02 | 1 | | 5.4300 | | | | | | | | | | | | | |
| 005.05 | 27 | 26 | 5.4063 | 0.12438 | 5.4275 | 0.08032 | 0.01114 | 1.48% | 0.12219 | 0.03282 | 0.12653 | 2.26% | 0.61% | 2.34% | 3.8547 | 0.03504 |
| 005.11 | 6 | 6 | 5.3508 | 0.72921 | 5.2675 | 0.08602 | 0.02483 | 1.63% | 0.72879 | 0.03476 | 0.72962 | 13.62% | 0.65% | 13.64% | 20.990 | 0.04500 |
| 005.99 | 12 | 12 | 5.4634 | 0.68698 | 5.4049 | 0.16890 | 0.03448 | 3.12% | 0.68065 | 0.13166 | 0.69326 | 12.46% | 2.41% | 12.69% | 5.2656 | 0.12425 |
| 006.01 | 1 | | 4.2500 | | | | | | | | | | | | | |
| 006.99 | 3 | 3 | 5.7200 | 0.66159 | 5.7200 | 0.66159 | 0.27009 | 11.57% | 0.65526 | 0.12910 | 0.66786 | 11.46% | 2.26% | 11.68% | 5.1732 | 0.13333 |
| 008.02 | 10 | 10 | 4.6790 | 1.4803 | 4.2005 | 0.49256 | 0.11014 | 11.73% | 1.4791 | 0.08468 | 1.4815 | 31.61% | 1.81% | 31.66% | 17.497 | 0.09000 |
| 008.05 | 1 | | 5.2000 | | | | | | | | | | | | | |
| 008.08 | 26 | 26 | 4.4340 | 0.70890 | 4.3803 | 0.67336 | 0.09338 | 15.37% | 0.69678 | 0.18461 | 0.72082 | 15.71% | 4.16% | 16.26% | 3.9045 | 0.19277 |
| 008.99 | 5 | 5 | 4.6230 | 1.0844 | 4.6230 | 1.0844 | 0.34291 | 23.46% | 1.0803 | 0.13270 | 1.0884 | 23.37% | 2.87% | 23.54% | 8.2020 | 0.17000 |
| 009.04 | 1 | | 13.115 | | | | | | | | | | | | | |
| 009.07 | 9 | 9 | 11.613 | 1.0190 | 11.654 | 0.97796 | 0.23051 | 8.39% | 1.0037 | 0.24886 | 1.0341 | 8.64% | 2.14% | 8.90% | 4.1554 | 0.28222 |
| 009.09 | 21 | 20 | 11.219 | 0.84919 | 11.126 | 0.72173 | 0.11412 | 6.49% | 0.82594 | 0.27908 | 0.87181 | 7.36% | 2.49% | 7.77% | 3.1238 | 0.27315 |
| 009.99 | 6 | 6 | 11.821 | 2.6490 | 11.847 | 2.9548 | 0.85298 | 24.94% | 2.6412 | 0.28776 | 2.6568 | 22.34% | 2.43% | 22.48% | 9.2326 | 0.31833 |
| 010.03 | 4 | 4 | 9.1037 | 1.7638 | 9.1037 | 1.7638 | 0.62359 | 19.37% | 1.7566 | 0.22428 | 1.7709 | 19.30% | 2.46% | 19.45% | 7.8960 | 0.25690 |
| 010.11 | 4 | 4 | 10.933 | 0.39371 | 10.933 | 0.39371 | 0.13920 | 3.60% | 0.39220 | 0.04873 | 0.39522 | 3.59% | 0.45% | 3.62% | 8.1097 | 0.06000 |
| 010.99 | 12 | 12 | 10.984 | 0.33829 | 10.951 | 0.31108 | 0.06350 | 2.84% | 0.33145 | 0.09577 | 0.34501 | 3.02% | 0.87% | 3.14% | 3.6023 | 0.08233 |
| 011.01 | 155 | 80 | 11.941 | 0.45317 | 11.997 | 0.31615 | 0.02499 | 2.64% | 0.44841 | 0.09267 | 0.45788 | 3.76% | 0.78% | 3.83% | 4.9410 | 0.08938 |
| 011.02 | 3 | 2 | 11.618 | 0.39952 | 11.618 | 0.39952 | 0.19976 | 3.44% | 0.22989 | 0.46209 | 0.51612 | 1.98% | 3.98% | 4.44% | 1.1169 | 0.55500 |
| 011.99 | 2 | 2 | 10.580 | 1.4425 | | | | | | | | | | | | |
| 012.00 | 11 | 11 | 36.922 | 1.1906 | 37.041 | 1.0262 | 0.21878 | 2.77% | 1.1648 | 0.34849 | 1.2158 | 3.15% | 0.94% | 3.29% | 3.4888 | 0.35091 |
| 012.01 | 2 | 2 | 23.143 | 6.7776 | | | | | | | | | | | | |
| 012.03 | 3 | 3 | 35.738 | 0.38126 | 35.738 | 0.38126 | 0.15565 | 1.07% | 0.37989 | 0.04564 | 0.38262 | 1.06% | 0.13% | 1.07% | 8.3828 | 0.04333 |
| 012.04 | 6 | 6 | 35.712 | 3.0864 | 35.179 | 2.2192 | 0.64063 | 6.31% | 3.0811 | 0.25551 | 3.0916 | 8.63% | 0.72% | 8.66% | 12.100 | 0.26333 |
| 012.11 | 3 | 3 | 37.457 | 0.93490 | 37.457 | 0.93490 | 0.38167 | 2.50% | 0.93251 | 0.09452 | 0.93728 | 2.49% | 0.25% | 2.50% | 9.9166 | 0.10667 |
| 013.00 | 14 | 13 | 7.2794 | 0.52038 | 7.2439 | 0.51116 | 0.10025 | 7.06% | 0.51511 | 0.10445 | 0.52560 | 7.08% | 1.43% | 7.22% | 5.0319 | 0.12965 |
| 013.02 | 95 | 25 | 7.2846 | 0.30745 | 7.2880 | 0.34124 | 0.04826 | 4.68% | 0.29136 | 0.13883 | 0.32274 | 4.00% | 1.91% | 4.43% | 2.3247 | 0.14120 |
| 013.03 | 1 | | 5.2903 | | | | | | | | | | | | | |

| Method Code | Total # Labs Submitting | # Labs Included in Calculations | Mean | SD | Assigned Value - Robust Mean | AAFCCO CS ffp - Robust sd | Uncertainty (U) | % RSD | Between Labs sL | Within Labs sr | Reproducibility sR | Between Labs %RSD | Within Labs %rstd | Reproducibility %RSD | sR/sr | Average Range (R-bar) |
|-------------|-------------------------|---------------------------------|---------|---------|------------------------------|---------------------------|-----------------|--------|-----------------|----------------|--------------------|-------------------|-------------------|----------------------|--------|-----------------------|
| 013.10 | 14 | 13 | 7.0009 | 0.58556 | 7.0337 | 0.59268 | 0.11623 | 8.43% | 0.57614 | 0.14792 | 0.59483 | 8.23% | 2.11% | 8.50% | 4.0213 | 0.16085 |
| 013.11 | 2 | 2 | 6.1038 | 0.23511 | | | | | | | | | | | | |
| 013.12 | 1 | | 6.8500 | | | | | | | | | | | | | |
| 013.13 | 2 | 2 | 7.4175 | 0.11667 | | | | | | | | | | | | |
| 015.41 | 5 | 5 | 44.387 | 6.1005 | 44.387 | 6.1005 | 1.9291 | 13.74% | 5.9959 | 1.5908 | 6.2033 | 13.51% | 3.58% | 13.98% | 3.8995 | 1.7729 |
| 015.42 | 2 | 2 | 37.840 | 13.166 | | | | | | | | | | | | |
| 015.43 | 4 | 4 | 65.825 | 30.008 | 65.825 | 30.008 | 10.609 | 45.59% | 29.956 | 2.5045 | 30.060 | 45.51% | 3.80% | 45.67% | 12.003 | 2.8500 |
| 015.52 | 1 | | 52.186 | | | | | | | | | | | | | |
| 015.53 | 1 | | 49.900 | | | | | | | | | | | | | |
| 016.42 | 1 | | 0.00000 | | | | | | | | | | | | | |
| 016.53 | 1 | | 0.00000 | | | | | | | | | | | | | |
| 017.41 | 2 | 2 | 10.710 | 0.86267 | | | | | | | | | | | | |
| 017.42 | 4 | 4 | 8.0100 | 5.4181 | 8.0100 | 5.4181 | 1.9156 | 67.64% | 5.4118 | 0.37047 | 5.4245 | 67.56% | 4.63% | 67.72% | 14.642 | 0.38500 |
| 017.43 | 4 | 4 | 10.681 | 0.59859 | 10.681 | 0.59859 | 0.21163 | 5.60% | 0.58106 | 0.20338 | 0.61562 | 5.44% | 1.90% | 5.76% | 3.0270 | 0.24250 |
| 017.53 | 1 | | 10.500 | | | | | | | | | | | | | |
| 018.41 | 1 | | 0.04125 | | | | | | | | | | | | | |
| 018.42 | 1 | | 0.00000 | | | | | | | | | | | | | |
| 018.52 | 1 | | 0.04720 | | | | | | | | | | | | | |
| 018.53 | 1 | | 0.04460 | | | | | | | | | | | | | |
| 019.00 | 28 | 27 | 0.84799 | 0.09823 | 0.86407 | 0.05248 | 0.00714 | 6.07% | 0.09605 | 0.02909 | 0.10036 | 11.33% | 3.43% | 11.84% | 3.4505 | 0.02629 |
| 019.03 | 5 | 5 | 0.86462 | 0.08721 | 0.86462 | 0.08721 | 0.02758 | 10.09% | 0.08159 | 0.04355 | 0.09249 | 9.44% | 5.04% | 10.70% | 2.1237 | 0.04660 |
| 019.08 | 9 | 9 | 0.99000 | 0.11974 | 0.98418 | 0.12230 | 0.02883 | 12.43% | 0.11702 | 0.03590 | 0.12240 | 11.82% | 3.63% | 12.36% | 3.4094 | 0.03111 |
| 019.31 | 31 | 30 | 0.85436 | 0.08153 | 0.86658 | 0.04791 | 0.00619 | 5.53% | 0.07846 | 0.03136 | 0.08449 | 9.18% | 3.67% | 9.89% | 2.6946 | 0.02737 |
| 019.32 | 10 | 10 | 0.78695 | 0.11459 | 0.82047 | 0.06006 | 0.01343 | 7.32% | 0.11432 | 0.01106 | 0.11485 | 14.53% | 1.41% | 14.59% | 10.384 | 0.01262 |
| 019.33 | 2 | 2 | 0.85450 | 0.05586 | | | | | | | | | | | | |
| 019.34 | 2 | 2 | 0.88980 | 0.01386 | | | | | | | | | | | | |
| 019.41 | 39 | 38 | 0.88066 | 0.04502 | 0.87985 | 0.03924 | 0.00450 | 4.46% | 0.03896 | 0.03188 | 0.05035 | 4.42% | 3.62% | 5.72% | 1.5791 | 0.02889 |
| 019.42 | 20 | 19 | 0.90301 | 0.04416 | 0.90340 | 0.04453 | 0.00722 | 4.93% | 0.04304 | 0.01400 | 0.04526 | 4.77% | 1.55% | 5.01% | 3.2330 | 0.01314 |
| 019.43 | 13 | 12 | 0.90342 | 0.02898 | 0.90880 | 0.02297 | 0.00469 | 2.53% | 0.01909 | 0.03083 | 0.03626 | 2.11% | 3.41% | 4.01% | 1.1761 | 0.02883 |
| 019.52 | 2 | 2 | 0.84000 | 0.10324 | | | | | | | | | | | | |
| 019.53 | 3 | 3 | 0.61450 | 0.46074 | 0.61450 | 0.46074 | 0.18810 | 74.98% | 0.46058 | 0.01740 | 0.46090 | 74.95% | 2.83% | 75.00% | 26.486 | 0.02233 |
| 019.99 | 3 | 3 | 0.76333 | 0.05346 | 0.76333 | 0.05346 | 0.02183 | 7.00% | 0.05331 | 0.00577 | 0.05362 | 6.98% | 0.76% | 7.02% | 9.2871 | 0.00667 |
| 020.32 | 1 | | 1.2550 | | | | | | | | | | | | | |
| 020.33 | 1 | | 0.74500 | | | | | | | | | | | | | |
| 020.41 | 2 | 2 | 1.0835 | 0.09405 | | | | | | | | | | | | |
| 020.42 | 2 | 2 | 0.44375 | 0.62756 | | | | | | | | | | | | |
| 020.43 | 2 | 2 | 1.6875 | 0.08839 | | | | | | | | | | | | |
| 020.52 | 1 | | 1.6600 | | | | | | | | | | | | | |

| Method Code | Total # Labs Submitting | # Labs Included in Calculations | Mean | SD | Assigned Value - Robust Mean | AAFCCO CS ffp - Robust sd | Uncertainty (U) | % RSD | Between Labs sL | Within Labs sr | Reproducibility sR | Between Labs %RSD | Within Labs %rstd | Reproducibility %RSD | sR/sr | Average Range (R-bar) |
|-------------|-------------------------|---------------------------------|---------|---------|------------------------------|---------------------------|-----------------|--------|-----------------|----------------|--------------------|-------------------|-------------------|----------------------|--------|-----------------------|
| 020.53 | 1 | | 0.83250 | | | | | | | | | | | | | |
| 020.99 | 1 | | 0.78500 | | | | | | | | | | | | | |
| 021.31 | 1 | | 0.00000 | | | | | | | | | | | | | |
| 021.41 | 3 | 3 | 0.49767 | 0.30978 | 0.49767 | 0.30978 | 0.12647 | 62.25% | 0.30801 | 0.04686 | 0.31155 | 61.89% | 9.42% | 62.60% | 6.6483 | 0.05867 |
| 021.42 | 2 | 2 | 0.13750 | 0.19445 | | | | | | | | | | | | |
| 021.43 | 2 | 2 | 0.24000 | 0.15556 | | | | | | | | | | | | |
| 021.52 | 1 | | 0.29950 | | | | | | | | | | | | | |
| 021.53 | 1 | | 0.24500 | | | | | | | | | | | | | |
| 022.31 | 19 | 18 | 161.08 | 7.9391 | 161.20 | 8.7452 | 1.4575 | 5.42% | 7.6158 | 3.1712 | 8.2497 | 4.73% | 1.97% | 5.12% | 2.6015 | 3.5079 |
| 022.32 | 1 | | 179.00 | | | | | | | | | | | | | |
| 022.33 | 2 | 2 | 144.93 | 11.420 | | | | | | | | | | | | |
| 022.35 | 1 | | 165.50 | | | | | | | | | | | | | |
| 022.41 | 31 | 31 | 164.65 | 11.767 | 163.84 | 9.5266 | 1.2099 | 5.81% | 11.255 | 4.8546 | 12.257 | 6.84% | 2.95% | 7.44% | 2.5249 | 5.5148 |
| 022.42 | 20 | 19 | 172.64 | 10.752 | 172.68 | 10.961 | 1.7781 | 6.35% | 9.9584 | 5.7333 | 11.491 | 5.77% | 3.32% | 6.66% | 2.0042 | 4.7468 |
| 022.43 | 12 | 12 | 165.14 | 11.378 | 164.97 | 10.058 | 2.0530 | 6.10% | 10.286 | 6.8780 | 12.374 | 6.23% | 4.16% | 7.49% | 1.7990 | 7.1200 |
| 022.52 | 1 | | 149.48 | | | | | | | | | | | | | |
| 022.53 | 2 | 2 | 164.75 | 0.35355 | | | | | | | | | | | | |
| 022.99 | 1 | | 103.00 | | | | | | | | | | | | | |
| 025.31 | 15 | 15 | 232.40 | 33.612 | 238.83 | 24.451 | 4.4641 | 10.24% | 33.289 | 6.5757 | 33.932 | 14.32% | 2.83% | 14.60% | 5.1602 | 7.1720 |
| 025.32 | 2 | 2 | 216.01 | 36.784 | | | | | | | | | | | | |
| 025.33 | 2 | 2 | 253.84 | 31.590 | | | | | | | | | | | | |
| 025.34 | 1 | | 249.50 | | | | | | | | | | | | | |
| 025.41 | 29 | 29 | 242.81 | 15.413 | 241.39 | 12.899 | 1.6938 | 5.34% | 13.684 | 10.031 | 16.967 | 5.64% | 4.13% | 6.99% | 1.6915 | 9.4560 |
| 025.42 | 18 | 18 | 242.19 | 30.234 | 245.62 | 22.405 | 3.7342 | 9.12% | 29.853 | 6.7637 | 30.610 | 12.33% | 2.79% | 12.64% | 4.5256 | 7.3233 |
| 025.43 | 11 | 10 | 247.00 | 16.290 | 245.75 | 15.628 | 3.4946 | 6.36% | 15.894 | 5.0460 | 16.676 | 6.43% | 2.04% | 6.75% | 3.3048 | 4.6950 |
| 025.52 | 1 | | 222.69 | | | | | | | | | | | | | |
| 025.53 | 1 | | 210.00 | | | | | | | | | | | | | |
| 025.99 | 1 | | 197.50 | | | | | | | | | | | | | |
| 026.31 | 1 | | 1.0000 | | | | | | | | | | | | | |
| 026.42 | 1 | | 0.00000 | | | | | | | | | | | | | |
| 026.52 | 1 | | 0.14250 | | | | | | | | | | | | | |
| 026.53 | 1 | | 0.12200 | | | | | | | | | | | | | |
| 027.31 | 17 | 16 | 0.18827 | 0.01669 | 0.18979 | 0.00843 | 0.00149 | 4.44% | 0.01533 | 0.00935 | 0.01795 | 8.14% | 4.97% | 9.54% | 1.9199 | 0.00645 |
| 027.32 | 5 | 5 | 0.18979 | 0.00592 | 0.18979 | 0.00592 | 0.00187 | 3.12% | | 0.00957 | | | 5.04% | | | 0.00854 |
| 027.34 | 1 | | 0.19600 | | | | | | | | | | | | | |
| 027.41 | 28 | 27 | 0.19634 | 0.01026 | 0.19528 | 0.00801 | 0.00109 | 4.10% | 0.00952 | 0.00542 | 0.01096 | 4.85% | 2.76% | 5.58% | 2.0216 | 0.00481 |
| 027.42 | 17 | 17 | 0.19710 | 0.01108 | 0.19410 | 0.00675 | 0.00116 | 3.48% | 0.01082 | 0.00338 | 0.01134 | 5.49% | 1.72% | 5.75% | 3.3514 | 0.00301 |
| 027.43 | 9 | 8 | 0.19356 | 0.01576 | 0.19405 | 0.01677 | 0.00419 | 8.64% | 0.01562 | 0.00297 | 0.01590 | 8.07% | 1.53% | 8.22% | 5.3574 | 0.00238 |

| Method Code | Total # Labs Submitting | # Labs Included in Calculations | Mean | SD | Assigned Value - Robust Mean | AAFCCO CS ffp - Robust sd | Uncertainty (U) | % RSD | Between Labs sL | Within Labs sr | Reproducibility sR | Between Labs %RSD | Within Labs %rscd | Reproducibility %RSD | sR/sr | Average Range (R-bar) |
|-------------|-------------------------|---------------------------------|---------|---------|------------------------------|---------------------------|-----------------|--------|-----------------|----------------|--------------------|-------------------|-------------------|----------------------|--------|-----------------------|
| 027.52 | 1 | | 0.17745 | | | | | | | | | | | | | |
| 027.53 | 2 | 2 | 0.19325 | 0.01167 | | | | | | | | | | | | |
| 027.99 | 1 | | 0.14000 | | | | | | | | | | | | | |
| 028.31 | 14 | 14 | 69.318 | 4.8451 | 69.611 | 3.7315 | 0.70519 | 5.36% | 4.5237 | 2.4538 | 5.1464 | 6.53% | 3.54% | 7.42% | 2.0973 | 2.7811 |
| 028.32 | 1 | | 66.500 | | | | | | | | | | | | | |
| 028.33 | 1 | | 86.350 | | | | | | | | | | | | | |
| 028.34 | 2 | 2 | 65.750 | 1.0607 | | | | | | | | | | | | |
| 028.41 | 29 | 28 | 68.301 | 3.5814 | 68.145 | 3.3816 | 0.45188 | 4.96% | 3.0210 | 2.7202 | 4.0653 | 4.42% | 3.98% | 5.95% | 1.4944 | 2.8414 |
| 028.42 | 20 | 20 | 71.050 | 3.9958 | 71.198 | 2.9219 | 0.46200 | 4.10% | 3.4614 | 2.8231 | 4.4667 | 4.87% | 3.97% | 6.29% | 1.5822 | 2.8880 |
| 028.43 | 11 | 11 | 68.178 | 5.4928 | 68.178 | 6.2288 | 1.3280 | 9.14% | 5.1734 | 2.6103 | 5.7946 | 7.59% | 3.83% | 8.50% | 2.2199 | 2.6400 |
| 028.52 | 1 | | 59.553 | | | | | | | | | | | | | |
| 028.53 | 2 | 2 | 70.100 | 5.7983 | | | | | | | | | | | | |
| 029.99 | 1 | | 0.05100 | | | | | | | | | | | | | |
| 031.00 | 2 | 2 | 0.51063 | 0.02033 | | | | | | | | | | | | |
| 031.01 | 64 | 61 | 0.52412 | 0.03333 | 0.52535 | 0.01719 | 0.00156 | 3.27% | 0.03251 | 0.01039 | 0.03413 | 6.20% | 1.98% | 6.51% | 3.2860 | 0.00910 |
| 031.02 | 4 | 4 | 0.53535 | 0.01238 | 0.53535 | 0.01238 | 0.00438 | 2.31% | 0.01013 | 0.01006 | 0.01428 | 1.89% | 1.88% | 2.67% | 1.4185 | 0.01080 |
| 031.03 | 9 | 9 | 0.52133 | 0.01941 | 0.52522 | 0.00513 | 0.00121 | 0.98% | 0.01782 | 0.01085 | 0.02087 | 3.42% | 2.08% | 4.00% | 1.9230 | 0.01074 |
| 031.04 | 1 | | 0.50500 | | | | | | | | | | | | | |
| 031.06 | 3 | 3 | 0.50333 | 0.06526 | 0.50333 | 0.06526 | 0.02664 | 12.96% | 0.06035 | 0.03512 | 0.06982 | 11.99% | 6.98% | 13.87% | 1.9881 | 0.04000 |
| 031.41 | 37 | 36 | 0.53783 | 0.04057 | 0.53070 | 0.02117 | 0.00249 | 3.99% | 0.04007 | 0.00895 | 0.04106 | 7.45% | 1.66% | 7.63% | 4.5892 | 0.00938 |
| 031.42 | 21 | 20 | 0.52553 | 0.02075 | 0.52449 | 0.01744 | 0.00276 | 3.32% | 0.01870 | 0.01272 | 0.02261 | 3.56% | 2.42% | 4.30% | 1.7782 | 0.01282 |
| 031.43 | 12 | 11 | 0.54154 | 0.03689 | 0.53206 | 0.01797 | 0.00383 | 3.38% | 0.03659 | 0.00665 | 0.03719 | 6.76% | 1.23% | 6.87% | 5.5928 | 0.00601 |
| 031.52 | 1 | | 0.45515 | | | | | | | | | | | | | |
| 031.53 | 4 | 4 | 0.52188 | 0.02191 | 0.52188 | 0.02191 | 0.00775 | 4.20% | 0.01974 | 0.01344 | 0.02388 | 3.78% | 2.58% | 4.58% | 1.7770 | 0.01325 |
| 031.99 | 6 | 6 | 0.45083 | 0.14888 | 0.49619 | 0.05443 | 0.01571 | 10.97% | 0.14875 | 0.00866 | 0.14900 | 32.99% | 1.92% | 33.05% | 17.205 | 0.00833 |
| 032.02 | 6 | 6 | 0.92506 | 0.05070 | 0.92506 | 0.05750 | 0.01660 | 6.22% | 0.04829 | 0.02187 | 0.05301 | 5.22% | 2.36% | 5.73% | 2.4236 | 0.02425 |
| 032.31 | 17 | 16 | 0.91017 | 0.25100 | 0.91654 | 0.06512 | 0.01151 | 7.10% | 0.24961 | 0.03726 | 0.25238 | 27.42% | 4.09% | 27.73% | 6.7731 | 0.03343 |
| 032.32 | 4 | 4 | 0.90341 | 0.02159 | 0.90341 | 0.02159 | 0.00763 | 2.39% | 0.01408 | 0.02314 | 0.02709 | 1.56% | 2.56% | 3.00% | 1.1706 | 0.02098 |
| 032.33 | 1 | | 0.71500 | | | | | | | | | | | | | |
| 032.41 | 28 | 26 | 0.93022 | 0.05641 | 0.92299 | 0.03606 | 0.00500 | 3.91% | 0.05484 | 0.01869 | 0.05794 | 5.90% | 2.01% | 6.23% | 3.1005 | 0.02167 |
| 032.42 | 18 | 17 | 0.94224 | 0.05084 | 0.94075 | 0.05184 | 0.00889 | 5.51% | 0.04830 | 0.02245 | 0.05326 | 5.13% | 2.38% | 5.65% | 2.3726 | 0.02339 |
| 032.43 | 9 | 8 | 0.94118 | 0.04875 | 0.94118 | 0.05528 | 0.01382 | 5.87% | 0.04748 | 0.01564 | 0.04999 | 5.04% | 1.66% | 5.31% | 3.1964 | 0.01448 |
| 032.52 | 1 | | 0.96280 | | | | | | | | | | | | | |
| 032.53 | 2 | 2 | 0.92850 | 0.04031 | | | | | | | | | | | | |
| 032.99 | 1 | | 0.73000 | | | | | | | | | | | | | |
| 033.00 | 42 | 40 | 0.69892 | 0.06807 | 0.70465 | 0.06247 | 0.00698 | 8.87% | 0.06709 | 0.01626 | 0.06903 | 9.60% | 2.33% | 9.88% | 4.2465 | 0.01511 |
| 033.01 | 35 | 34 | 0.75081 | 0.07885 | 0.76715 | 0.03214 | 0.00390 | 4.19% | 0.07811 | 0.01520 | 0.07958 | 10.40% | 2.02% | 10.60% | 5.2360 | 0.01509 |
| 033.03 | 6 | 6 | 0.74083 | 0.06453 | 0.73071 | 0.04921 | 0.01421 | 6.73% | 0.06266 | 0.02179 | 0.06635 | 8.46% | 2.94% | 8.96% | 3.0441 | 0.02167 |

| Method Code | Total # Labs Submitting | # Labs Included in Calculations | Mean | SD | Assigned Value - Robust Mean | AAFCCO CS ffp - Robust sd | Uncertainty (U) | % RSD | Between Labs sL | Within Labs sr | Reproducibility sR | Between Labs %RSD | Within Labs %rstd | Reproducibility %RSD | sR/sr | Average Range (R-bar) |
|-------------|-------------------------|---------------------------------|---------|---------|------------------------------|---------------------------|-----------------|--------|-----------------|----------------|--------------------|-------------------|-------------------|----------------------|--------|-----------------------|
| 033.05 | 2 | 2 | 0.73000 | 0.01414 | | | | | | | | | | | | |
| 033.99 | 11 | 11 | 0.63564 | 0.11493 | 0.64246 | 0.07655 | 0.01632 | 11.91% | 0.11341 | 0.02633 | 0.11643 | 17.84% | 4.14% | 18.32% | 4.4218 | 0.03109 |
| 034.01 | 1 | | 0.52700 | | | | | | | | | | | | | |
| 034.04 | 8 | 8 | 0.51980 | 0.06691 | 0.52524 | 0.06030 | 0.01507 | 11.48% | 0.06585 | 0.01677 | 0.06795 | 12.67% | 3.23% | 13.07% | 4.0520 | 0.01840 |
| 034.31 | 1 | | 0.42500 | | | | | | | | | | | | | |
| 034.33 | 1 | | 0.63000 | | | | | | | | | | | | | |
| 034.42 | 3 | 3 | 8.3233 | 7.2087 | 8.3233 | 7.2087 | 2.9429 | 86.61% | 7.1128 | 1.6575 | 7.3034 | 85.46% | 19.91% | 87.75% | 4.4063 | 1.3533 |
| 034.52 | 2 | 2 | 0.70775 | 0.04985 | | | | | | | | | | | | |
| 034.53 | 3 | 3 | 0.61250 | 0.07040 | 0.61250 | 0.07040 | 0.02874 | 11.49% | 0.02557 | 0.09276 | 0.09622 | 4.17% | 15.14% | 15.71% | 1.0373 | 0.11100 |
| 035.01 | 4 | 4 | 0.27525 | 0.01461 | 0.27525 | 0.01461 | 0.00517 | 5.31% | 0.01418 | 0.00500 | 0.01504 | 5.15% | 1.82% | 5.46% | 3.0072 | 0.00500 |
| 035.05 | 8 | 8 | 0.25770 | 0.01050 | 0.25641 | 0.00867 | 0.00217 | 3.38% | 0.01010 | 0.00408 | 0.01089 | 3.92% | 1.58% | 4.23% | 2.6717 | 0.00443 |
| 035.31 | 21 | 20 | 0.28841 | 0.15091 | 0.25657 | 0.01265 | 0.00200 | 4.93% | 0.15075 | 0.00990 | 0.15107 | 52.27% | 3.43% | 52.38% | 15.260 | 0.01065 |
| 035.32 | 4 | 4 | 0.26973 | 0.02540 | 0.26973 | 0.02540 | 0.00898 | 9.42% | 0.02484 | 0.00749 | 0.02594 | 9.21% | 2.78% | 9.62% | 3.4629 | 0.00675 |
| 035.33 | 1 | | 0.17500 | | | | | | | | | | | | | |
| 035.41 | 31 | 30 | 0.25490 | 0.01236 | 0.25317 | 0.00893 | 0.00115 | 3.53% | 0.01128 | 0.00714 | 0.01335 | 4.43% | 2.80% | 5.24% | 1.8698 | 0.00804 |
| 035.42 | 18 | 17 | 0.24362 | 0.01967 | 0.24385 | 0.01786 | 0.00306 | 7.32% | 0.01878 | 0.00823 | 0.02051 | 7.71% | 3.38% | 8.42% | 2.4917 | 0.00800 |
| 035.43 | 10 | 10 | 0.25377 | 0.02320 | 0.25453 | 0.02458 | 0.00550 | 9.66% | 0.02223 | 0.00943 | 0.02414 | 8.76% | 3.72% | 9.51% | 2.5597 | 0.00991 |
| 035.52 | 1 | | 0.27640 | | | | | | | | | | | | | |
| 035.53 | 2 | 2 | 0.25825 | 0.01167 | | | | | | | | | | | | |
| 036.00 | 1 | | 0.27500 | | | | | | | | | | | | | |
| 036.04 | 3 | 3 | 0.29333 | 0.00289 | 0.29333 | 0.00289 | 0.00118 | 0.98% | | 0.00577 | | | 1.97% | | | 0.00667 |
| 036.42 | 17 | 16 | 0.26259 | 0.01272 | 0.26289 | 0.01249 | 0.00221 | 4.75% | 0.01224 | 0.00492 | 0.01319 | 4.66% | 1.87% | 5.02% | 2.6810 | 0.00429 |
| 036.43 | 8 | 8 | 0.27319 | 0.01376 | 0.27306 | 0.01488 | 0.00372 | 5.45% | 0.01294 | 0.00663 | 0.01454 | 4.74% | 2.43% | 5.32% | 2.1920 | 0.00653 |
| 036.53 | 1 | | 0.23500 | | | | | | | | | | | | | |
| 036.99 | 1 | | 0.20000 | | | | | | | | | | | | | |
| 037.31 | 21 | 20 | 379.83 | 29.209 | 380.72 | 25.053 | 3.9612 | 6.58% | 28.409 | 9.5968 | 29.986 | 7.48% | 2.53% | 7.89% | 3.1246 | 9.3905 |
| 037.32 | 4 | 4 | 371.88 | 26.797 | 371.88 | 26.797 | 9.4741 | 7.21% | 26.439 | 6.1745 | 27.150 | 7.11% | 1.66% | 7.30% | 4.3971 | 7.2500 |
| 037.33 | 4 | 4 | 384.28 | 9.9320 | 384.28 | 9.9320 | 3.5115 | 2.58% | | 19.601 | | | 5.10% | | | 20.750 |
| 037.34 | 1 | | 367.50 | | | | | | | | | | | | | |
| 037.41 | 32 | 31 | 391.40 | 25.845 | 393.60 | 22.059 | 2.8015 | 5.60% | 24.247 | 12.650 | 27.349 | 6.20% | 3.23% | 6.99% | 2.1620 | 12.783 |
| 037.42 | 18 | 18 | 394.19 | 18.670 | 395.56 | 17.015 | 2.8358 | 4.30% | 17.239 | 10.137 | 19.999 | 4.37% | 2.57% | 5.07% | 1.9728 | 9.3722 |
| 037.43 | 13 | 13 | 395.56 | 27.274 | 396.53 | 27.805 | 5.4530 | 7.01% | 25.475 | 13.778 | 28.962 | 6.44% | 3.48% | 7.32% | 2.1020 | 14.832 |
| 037.52 | 2 | 2 | 361.29 | 66.761 | | | | | | | | | | | | |
| 037.53 | 3 | 3 | 359.83 | 38.763 | 359.83 | 38.763 | 15.825 | 10.77% | 37.787 | 12.227 | 39.716 | 10.50% | 3.40% | 11.04% | 3.2482 | 15.667 |
| 037.99 | 2 | 2 | 344.20 | 61.801 | | | | | | | | | | | | |
| 038.41 | 3 | 3 | 1.1113 | 0.49151 | 1.1113 | 0.49151 | 0.20066 | 44.23% | 0.48629 | 0.10104 | 0.49667 | 43.76% | 9.09% | 44.69% | 4.9156 | 0.11200 |
| 038.42 | 5 | 5 | 1.5644 | 0.36877 | 1.5644 | 0.36877 | 0.11662 | 23.57% | 0.20638 | 0.43221 | 0.47895 | 13.19% | 27.63% | 30.62% | 1.1082 | 0.39280 |
| 038.43 | 5 | 5 | 1.5850 | 0.53014 | 1.5850 | 0.53014 | 0.16765 | 33.45% | 0.52810 | 0.06580 | 0.53218 | 33.32% | 4.15% | 33.58% | 8.0875 | 0.08600 |

| Method Code | Total # Labs Submitting | # Labs Included in Calculations | Mean | SD | Assigned Value - Robust Mean | AAFCCO CS ffp - Robust sd | Uncertainty (U) | % RSD | Between Labs sL | Within Labs sr | Reproducibility sR | Between Labs %RSD | Within Labs %rstd | Reproducibility %RSD | sR/sr | Average Range (R-bar) |
|-------------|-------------------------|---------------------------------|---------|---------|------------------------------|---------------------------|-----------------|--------|-----------------|----------------|--------------------|-------------------|-------------------|----------------------|--------|-----------------------|
| 038.52 | 1 | | 1.5295 | | | | | | | | | | | | | |
| 038.53 | 1 | | 1.6200 | | | | | | | | | | | | | |
| 039.31 | 1 | | 2.2950 | | | | | | | | | | | | | |
| 039.41 | 1 | | 1.8423 | | | | | | | | | | | | | |
| 039.42 | 2 | 2 | 1.4278 | 0.37795 | | | | | | | | | | | | |
| 039.43 | 1 | | 3.0400 | | | | | | | | | | | | | |
| 039.52 | 1 | | 2.1635 | | | | | | | | | | | | | |
| 039.53 | 1 | | 1.8100 | | | | | | | | | | | | | |
| 040.42 | 1 | | 4.5350 | | | | | | | | | | | | | |
| 041.42 | 1 | | 0.00000 | | | | | | | | | | | | | |
| 045.00 | 1 | | 0.01155 | | | | | | | | | | | | | |
| 088.00 | 7 | 7 | 25.684 | 5.9488 | 24.448 | 4.4565 | 1.1910 | 18.23% | 5.7393 | 2.2130 | 6.1511 | 22.35% | 8.62% | 23.95% | 2.7796 | 2.4271 |
| 088.01 | 2 | 2 | 19.075 | 0.31820 | | | | | | | | | | | | |
| 088.03 | 5 | 5 | 30.095 | 10.507 | 30.095 | 10.507 | 3.3227 | 34.91% | 10.429 | 1.8071 | 10.585 | 34.65% | 6.00% | 35.17% | 5.8573 | 2.1580 |
| 088.99 | 1 | | 31.550 | | | | | | | | | | | | | |
| 100.01 | 1 | | 0.13500 | | | | | | | | | | | | | |
| 101.02 | 2 | 2 | 643.58 | 174.27 | | | | | | | | | | | | |
| 101.99 | 2 | 2 | 804.70 | 8.0539 | | | | | | | | | | | | |
| 102.01 | 1 | | 37.591 | | | | | | | | | | | | | |
| 104.00 | 2 | 2 | 5.6155 | 0.97517 | | | | | | | | | | | | |
| 104.03 | 2 | 2 | 4.5650 | 0.25456 | | | | | | | | | | | | |
| 104.99 | 2 | 2 | 4.4480 | 0.17961 | | | | | | | | | | | | |
| 105.00 | 3 | 3 | 2.0697 | 0.60628 | 2.0697 | 0.60628 | 0.24751 | 29.29% | 0.58897 | 0.20343 | 0.62311 | 28.46% | 9.83% | 30.11% | 3.0631 | 0.19867 |
| 105.01 | 1 | | 1.9466 | | | | | | | | | | | | | |
| 106.00 | 1 | | 5.0000 | | | | | | | | | | | | | |
| 106.01 | 1 | | 4.7500 | | | | | | | | | | | | | |
| 106.02 | 15 | 15 | 4.6418 | 1.7955 | 4.4272 | 1.4698 | 0.26834 | 33.20% | 1.6637 | 0.95481 | 1.9183 | 35.84% | 20.57% | 41.33% | 2.0090 | 0.92349 |
| 107.00 | 2 | 2 | 20.798 | 2.1249 | | | | | | | | | | | | |
| 108.01 | 1 | | 1.1750 | | | | | | | | | | | | | |
| 108.02 | 3 | 3 | 0.84347 | 0.53444 | 0.84347 | 0.53444 | 0.21819 | 63.36% | 0.53394 | 0.03291 | 0.53495 | 63.30% | 3.90% | 63.42% | 16.253 | 0.03680 |
| 109.02 | 13 | 13 | 88.039 | 29.282 | 93.296 | 16.606 | 3.2566 | 17.80% | 29.230 | 2.4753 | 29.334 | 33.20% | 2.81% | 33.32% | 11.851 | 2.7346 |
| 112.00 | 2 | 2 | 6.1775 | 1.5945 | | | | | | | | | | | | |
| 114.01 | 1 | | 0.23500 | | | | | | | | | | | | | |
| 120.00 | 14 | 13 | 0.96285 | 0.05750 | 0.97043 | 0.04090 | 0.00802 | 4.21% | 0.05540 | 0.02182 | 0.05954 | 5.75% | 2.27% | 6.18% | 2.7285 | 0.01708 |
| 120.02 | 2 | 2 | 0.95660 | 0.06590 | | | | | | | | | | | | |
| 120.05 | 2 | 2 | 0.97350 | 0.01909 | | | | | | | | | | | | |
| 120.99 | 1 | | 0.98500 | | | | | | | | | | | | | |
| 121.00 | 14 | 13 | 1.1599 | 0.04599 | 1.1566 | 0.04411 | 0.00865 | 3.81% | 0.04491 | 0.01400 | 0.04705 | 3.87% | 1.21% | 4.06% | 3.3595 | 0.01469 |

| Method Code | Total # Labs Submitting | # Labs Included in Calculations | Mean | SD | Assigned Value - Robust Mean | AAFCCO CS ffp - Robust sd | Uncertainty (U) | % RSD | Between Labs sL | Within Labs sr | Reproducibility sR | Between Labs %RSD | Within Labs %rstd | Reproducibility %RSD | sR/sr | Average Range (R-bar) |
|-------------|-------------------------|---------------------------------|---------|---------|------------------------------|---------------------------|-----------------|-------|-----------------|----------------|--------------------|-------------------|-------------------|----------------------|--------|-----------------------|
| 121.02 | 2 | 2 | 1.1444 | 0.06449 | | | | | | | | | | | | |
| 121.05 | 2 | 2 | 1.1120 | 0.00283 | | | | | | | | | | | | |
| 121.99 | 1 | | 1.1700 | | | | | | | | | | | | | |
| 122.00 | 14 | 13 | 1.7147 | 0.06973 | 1.7149 | 0.07873 | 0.01544 | 4.59% | 0.06869 | 0.01691 | 0.07074 | 4.01% | 0.99% | 4.13% | 4.1845 | 0.01669 |
| 122.02 | 2 | 2 | 1.7009 | 0.03408 | | | | | | | | | | | | |
| 122.05 | 2 | 2 | 1.6720 | 0.00424 | | | | | | | | | | | | |
| 122.99 | 1 | | 1.6800 | | | | | | | | | | | | | |
| 123.99 | 1 | | 3.3050 | | | | | | | | | | | | | |
| 124.00 | 14 | 13 | 0.31754 | 0.03579 | 0.31394 | 0.02949 | 0.00578 | 9.39% | 0.03545 | 0.00692 | 0.03612 | 11.16% | 2.18% | 11.37% | 5.2216 | 0.00831 |
| 124.02 | 2 | 2 | 0.33648 | 0.01206 | | | | | | | | | | | | |
| 124.05 | 1 | | 0.31000 | | | | | | | | | | | | | |
| 124.99 | 1 | | 0.43000 | | | | | | | | | | | | | |
| 125.00 | 14 | 13 | 3.2737 | 0.15379 | 3.2572 | 0.14056 | 0.02757 | 4.32% | 0.15069 | 0.04345 | 0.15683 | 4.60% | 1.33% | 4.79% | 3.6098 | 0.04038 |
| 125.02 | 2 | 2 | 3.1599 | 0.04939 | | | | | | | | | | | | |
| 125.05 | 2 | 2 | 3.0345 | 0.04313 | | | | | | | | | | | | |
| 126.00 | 14 | 13 | 0.77285 | 0.03236 | 0.77011 | 0.02901 | 0.00569 | 3.77% | 0.02978 | 0.01793 | 0.03476 | 3.85% | 2.32% | 4.50% | 1.9390 | 0.01677 |
| 126.02 | 2 | 2 | 0.81148 | 0.02620 | | | | | | | | | | | | |
| 126.05 | 2 | 2 | 0.80275 | 0.01803 | | | | | | | | | | | | |
| 126.99 | 1 | | 0.76500 | | | | | | | | | | | | | |
| 127.00 | 14 | 14 | 0.50361 | 0.04102 | 0.49814 | 0.02647 | 0.00500 | 5.31% | 0.04061 | 0.00812 | 0.04142 | 8.06% | 1.61% | 8.22% | 5.1007 | 0.00801 |
| 127.02 | 2 | 2 | 0.51635 | 0.05466 | | | | | | | | | | | | |
| 127.05 | 2 | 2 | 0.48725 | 0.01732 | | | | | | | | | | | | |
| 127.99 | 1 | | 0.46500 | | | | | | | | | | | | | |
| 128.00 | 14 | 14 | 0.71715 | 0.04827 | 0.71558 | 0.03780 | 0.00714 | 5.28% | 0.04768 | 0.01068 | 0.04886 | 6.65% | 1.49% | 6.81% | 4.5732 | 0.01044 |
| 128.02 | 2 | 2 | 0.75603 | 0.02683 | | | | | | | | | | | | |
| 128.05 | 2 | 2 | 0.73900 | 0.02687 | | | | | | | | | | | | |
| 128.99 | 1 | | 0.72000 | | | | | | | | | | | | | |
| 129.00 | 14 | 14 | 1.6044 | 0.05698 | 1.5992 | 0.05433 | 0.01027 | 3.40% | 0.05618 | 0.01347 | 0.05777 | 3.50% | 0.84% | 3.60% | 4.2886 | 0.01434 |
| 129.02 | 2 | 2 | 1.6267 | 0.03065 | | | | | | | | | | | | |
| 129.05 | 2 | 2 | 1.5838 | 0.06187 | | | | | | | | | | | | |
| 129.99 | 1 | | 1.6250 | | | | | | | | | | | | | |
| 130.00 | 16 | 16 | 1.0059 | 0.05046 | 1.0072 | 0.05320 | 0.00940 | 5.28% | 0.04913 | 0.01628 | 0.05176 | 4.88% | 1.62% | 5.15% | 3.1792 | 0.01420 |
| 130.01 | 1 | | 1.0950 | | | | | | | | | | | | | |
| 130.02 | 2 | 2 | 1.0312 | 0.00534 | | | | | | | | | | | | |
| 130.05 | 3 | 3 | 1.0205 | 0.04325 | 1.0205 | 0.04325 | 0.01766 | 4.24% | 0.04243 | 0.01187 | 0.04406 | 4.16% | 1.16% | 4.32% | 3.7126 | 0.01433 |
| 130.99 | 2 | 2 | 1.1525 | 0.32880 | | | | | | | | | | | | |
| 131.00 | 15 | 14 | 0.32076 | 0.02570 | 0.32018 | 0.02523 | 0.00477 | 7.88% | 0.02559 | 0.00336 | 0.02581 | 7.98% | 1.05% | 8.05% | 7.6882 | 0.00354 |
| 131.02 | 2 | 2 | 0.32920 | 0.01527 | | | | | | | | | | | | |

| Method Code | Total # Labs Submitting | # Labs Included in Calculations | Mean | SD | Assigned Value - Robust Mean | AAFCCO CS ffp - Robust sd | Uncertainty (U) | % RSD | Between Labs sL | Within Labs sr | Reproducibility sR | Between Labs %RSD | Within Labs %rstd | Reproducibility %RSD | sR/sr | Average Range (R-bar) |
|-------------|-------------------------|---------------------------------|---------|---------|------------------------------|---------------------------|-----------------|-------|-----------------|----------------|--------------------|-------------------|-------------------|----------------------|--------|-----------------------|
| 131.05 | 2 | 2 | 0.28525 | 0.06329 | | | | | | | | | | | | |
| 131.99 | 2 | 2 | 0.32000 | 0.06364 | | | | | | | | | | | | |
| 132.00 | 14 | 13 | 0.87437 | 0.05237 | 0.87599 | 0.04529 | 0.00888 | 5.17% | 0.05213 | 0.00704 | 0.05261 | 5.96% | 0.81% | 6.02% | 7.4675 | 0.00775 |
| 132.02 | 2 | 2 | 0.89195 | 0.00983 | | | | | | | | | | | | |
| 132.05 | 2 | 2 | 0.87050 | 0.01485 | | | | | | | | | | | | |
| 132.99 | 1 | | 0.87500 | | | | | | | | | | | | | |
| 133.00 | 14 | 14 | 1.1722 | 0.05597 | 1.1719 | 0.05272 | 0.00996 | 4.50% | 0.05339 | 0.02373 | 0.05843 | 4.55% | 2.02% | 4.98% | 2.4625 | 0.02612 |
| 133.05 | 3 | 3 | 1.1998 | 0.04246 | 1.1998 | 0.04246 | 0.01733 | 3.54% | 0.01772 | 0.05456 | 0.05737 | 1.48% | 4.55% | 4.78% | 1.0514 | 0.05367 |
| 133.99 | 1 | | 1.1600 | | | | | | | | | | | | | |
| 134.00 | 14 | 13 | 0.87163 | 0.04889 | 0.86701 | 0.04077 | 0.00800 | 4.70% | 0.04756 | 0.01602 | 0.05018 | 5.46% | 1.84% | 5.76% | 3.1333 | 0.01541 |
| 134.02 | 2 | 2 | 0.78323 | 0.02372 | | | | | | | | | | | | |
| 134.05 | 2 | 2 | 0.87850 | 0.02616 | | | | | | | | | | | | |
| 134.99 | 1 | | 0.89500 | | | | | | | | | | | | | |
| 135.00 | 14 | 14 | 0.69867 | 0.03273 | 0.69345 | 0.02222 | 0.00420 | 3.20% | 0.03082 | 0.01560 | 0.03454 | 4.41% | 2.23% | 4.94% | 2.2147 | 0.01615 |
| 135.02 | 2 | 2 | 0.67833 | 0.00237 | | | | | | | | | | | | |
| 135.05 | 2 | 2 | 0.69975 | 0.02086 | | | | | | | | | | | | |
| 135.99 | 1 | | 0.65000 | | | | | | | | | | | | | |
| 136.00 | 2 | 2 | 0.27268 | 0.05752 | | | | | | | | | | | | |
| 136.01 | 4 | 4 | 0.20900 | 0.01733 | 0.20900 | 0.01733 | 0.00613 | 8.29% | 0.01727 | 0.00206 | 0.01740 | 8.26% | 0.99% | 8.32% | 8.4384 | 0.00250 |
| 136.03 | 2 | 2 | 0.22025 | 0.02581 | | | | | | | | | | | | |
| 136.99 | 2 | 2 | 0.21660 | 0.00438 | | | | | | | | | | | | |
| 137.00 | 8 | 7 | 0.63321 | 0.05414 | 0.61931 | 0.04136 | 0.01105 | 6.68% | 0.05400 | 0.00550 | 0.05428 | 8.53% | 0.87% | 8.57% | 9.8723 | 0.00631 |
| 137.02 | 2 | 2 | 0.60688 | 0.06806 | | | | | | | | | | | | |
| 137.05 | 2 | 2 | 0.58900 | 0.10041 | | | | | | | | | | | | |
| 137.99 | 1 | | 0.72500 | | | | | | | | | | | | | |
| 138.00 | 14 | 13 | 0.86527 | 0.04162 | 0.86424 | 0.04490 | 0.00881 | 5.20% | 0.04075 | 0.01200 | 0.04248 | 4.71% | 1.39% | 4.91% | 3.5402 | 0.00978 |
| 138.02 | 2 | 2 | 0.93828 | 0.08022 | | | | | | | | | | | | |
| 138.05 | 2 | 2 | 0.85875 | 0.02652 | | | | | | | | | | | | |
| 138.99 | 1 | | 0.88500 | | | | | | | | | | | | | |
| 139.00 | 1 | | 0.63150 | | | | | | | | | | | | | |
| 139.02 | 1 | | 0.00000 | | | | | | | | | | | | | |
| 140.01 | 1 | | 0.10250 | | | | | | | | | | | | | |
| 141.00 | 1 | | 0.03750 | | | | | | | | | | | | | |
| 142.00 | 1 | | 0.01950 | | | | | | | | | | | | | |
| 150.00 | 4 | 4 | 1,043.6 | 103.73 | 1,043.6 | 103.73 | 36.674 | 9.94% | 102.42 | 23.247 | 105.02 | 9.81% | 2.23% | 10.06% | 4.5177 | 21.538 |
| 150.99 | 2 | 2 | 1,044.0 | 52.326 | | | | | | | | | | | | |