



AAFCO
Proficiency Testing Program



Animal Feed Scheme
Poultry Layer Feed, Medicated
Test Material Code # 201722

Analyte Summary Report

Analytes Reported: 120
Labs Reporting: 198
Issue Date : 03/31/2017

| Analyte Group Code | Analyte and Method | Total # Tests Submitted | # Tests in Robust Calcs | Raw Mean | Raw SD | Assigned Value - Robust Mean | AAFCO PT fp - Robust sd | Uncertainty (U) Robust | % RSD - Robust | Average Range (R-bar) | Horwitz %RSD |
|--------------------|----------------------------|-------------------------|-------------------------|----------|---------|------------------------------|-------------------------|------------------------|----------------|-----------------------|--------------|
| 000 | Urea (%) | 1 | 1 | 0.30000 | | | | | | | |
| 001 | Loss on Drying (%) | 77 | 77 | 9.3510 | 0.45603 | 9.3889 | 0.36304 | 0.05172 | 3.87% | 0.12727 | 2.86% |
| 002 | Protein (%) | 196 | 196 | 69.722 | 711.29 | 18.962 | 0.29434 | 0.02628 | 1.55% | 101.76 | 2.30% |
| 003 | Fat (%) | 147 | 147 | 5.0115 | 0.55669 | 5.0611 | 0.18949 | 0.01954 | 3.74% | 0.11779 | 3.13% |
| 004 | Fiber (%) | 126 | 126 | 4.9678 | 1.2806 | 4.7798 | 0.52002 | 0.05791 | 10.88% | 0.22130 | 3.16% |
| 005 | Ash (%) | 141 | 141 | 11.686 | 0.83239 | 11.863 | 0.37506 | 0.03948 | 3.16% | 0.15506 | 2.76% |
| 006 | Total sugars (%) | 5 | 5 | 2.8190 | 0.41344 | 2.8190 | 0.41344 | 0.18490 | 14.67% | 0.21000 | 3.42% |
| 008 | Fiber (%) | 61 | 61 | 6.9508 | 0.97799 | 6.9745 | 0.85489 | 0.13682 | 12.26% | 0.26636 | 2.99% |
| 009 | Fiber (%) | 49 | 49 | 15.446 | 1.2037 | 15.391 | 1.1572 | 0.20664 | 7.52% | 0.43543 | 2.55% |
| 010 | Moisture (%) | 25 | 25 | 9.5159 | 0.74498 | 9.5547 | 0.61199 | 0.15300 | 6.41% | 0.16692 | 2.85% |
| 011 | Loss on Drying (%) | 71 | 71 | 10.068 | 0.48282 | 10.132 | 0.36175 | 0.05366 | 3.57% | 0.11703 | 2.82% |
| 012 | Starch (%) | 32 | 32 | 29.374 | 2.0099 | 29.491 | 1.5566 | 0.34396 | 5.28% | 0.40599 | 1.84% |
| 013 | Fat (%) | 51 | 51 | 6.1407 | 0.62564 | 6.1557 | 0.52717 | 0.09227 | 8.56% | 0.19170 | 3.04% |
| 015 | Aluminum (mg / kg (ppm)) | 12 | 12 | 154.50 | 41.518 | 154.50 | 47.081 | 16.989 | 30.47% | 18.716 | 7.49% |
| 017 | Boron (mg / kg (ppm)) | 16 | 15 | 6.3176 | 0.89023 | 6.2948 | 0.96114 | 0.31021 | 15.27% | 0.37068 | 12.13% |
| 019 | Calcium (%) | 143 | 143 | 227.81 | 2,681.6 | 3.5686 | 0.18013 | 0.01883 | 5.05% | 4.0374 | 3.30% |
| 021 | Cobalt (mg / kg (ppm)) | 28 | 27 | 1.6874 | 0.56317 | 1.6367 | 0.47160 | 0.11345 | 28.82% | 0.14592 | 14.85% |
| 022 | Copper (mg / kg (ppm)) | 86 | 85 | 17.314 | 3.4110 | 17.754 | 1.6809 | 0.22790 | 9.47% | 1.1372 | 10.38% |
| 023 | Fluorine (mg / kg (ppm)) | 1 | 1 | 8.1500 | | | | | | | |
| 025 | Iron (mg / kg (ppm)) | 84 | 84 | 308.08 | 56.439 | 312.85 | 40.109 | 5.4703 | 12.82% | 17.157 | 6.74% |
| 027 | Magnesium (%) | 101 | 101 | 28.015 | 263.91 | 0.31103 | 0.01758 | 0.00219 | 5.65% | 0.10302 | 4.77% |
| 028 | Manganese (mg / kg (ppm)) | 95 | 95 | 159.54 | 26.578 | 162.84 | 10.938 | 1.4028 | 6.72% | 5.4585 | 7.43% |
| 031 | Phosphorus (%) | 138 | 138 | 38.815 | 448.93 | 0.60552 | 0.02927 | 0.00311 | 4.83% | 0.55501 | 4.31% |
| 032 | Potassium (%) | 95 | 94 | 66.984 | 642.90 | 0.67804 | 0.03821 | 0.00493 | 5.64% | 0.70406 | 4.24% |
| 033 | Salt as chloride (%) | 67 | 67 | 0.32993 | 0.08080 | 0.32206 | 0.04887 | 0.00746 | 15.17% | 0.01944 | 4.74% |
| 034 | Selenium (mg / kg (ppm)) | 24 | 23 | 0.80233 | 0.48372 | 0.67383 | 0.17827 | 0.04647 | 26.46% | 0.03634 | 16.98% |
| 035 | Sodium (%) | 105 | 105 | 18.683 | 189.30 | 0.20875 | 0.01554 | 0.00190 | 7.44% | 0.33633 | 5.06% |
| 036 | Sulfur (%) | 41 | 41 | 166.62 | 743.87 | 0.37762 | 0.03257 | 0.00636 | 8.63% | 7.5974 | 4.63% |
| 037 | Zinc (mg / kg (ppm)) | 101 | 100 | 133.74 | 21.255 | 135.21 | 10.560 | 1.3200 | 7.81% | 5.7952 | 7.64% |
| 038 | Molybdenum (mg / kg (ppm)) | 19 | 18 | 1.1456 | 0.28785 | 1.1456 | 0.32642 | 0.09617 | 28.49% | 0.11483 | 15.67% |

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|--------------------|----------------------------------|-------------------------|-------------------------|----------|---------|------------------------------|--------------------------|--------------------------|----------------|-----------------------|--------------|
| 040 | Barium (mg / kg (ppm)) | 3 | 3 | 6.4348 | 0.29038 | 6.4348 | 0.29038 | 0.16765 | 4.51% | 0.17330 | 12.09% |
| 041 | Vanadium (mg / kg (ppm)) | 3 | 2 | 0.99650 | 0.12516 | 0.99650 | 0.12516 | 0.08850 | 12.56% | 0.14400 | 16.01% |
| 042 | Chloride (%) | 3 | 3 | 0.19500 | 0.05568 | 0.19500 | 0.05568 | 0.03215 | 28.55% | 0.04333 | 5.12% |
| 101 | Choline Chloride (mg / kg (ppm)) | 2 | 2 | 1,102.5 | 753.07 | | | | | | |
| 102 | Niacin (mg / kg (ppm)) | 2 | 2 | 135.54 | 65.001 | | | | | | |
| 103 | Pantothenic Acid (mg / kg (ppm)) | 2 | 2 | 17.440 | 10.126 | | | | | | |
| 104 | Riboflavin (mg / kg (ppm)) | 7 | 7 | 27.345 | 4.0607 | 27.345 | 4.6048 | 2.1756 | 16.84% | 1.4847 | 9.72% |
| 105 | Thiamine (mg / kg (ppm)) | 6 | 6 | 6.8208 | 1.9511 | 6.8208 | 2.2125 | 1.1291 | 32.44% | 0.68250 | 11.98% |
| 106 | Vitamin A (KU / kg) | 29 | 29 | 31.756 | 8.4980 | 30.835 | 6.0519 | 1.4048 | 19.63% | 2.9569 | |
| 107 | Vitamin B12 (µg / kg (ppb)) | 1 | 1 | 47.200 | | | | | | | |
| 108 | Vitamin D3 (KU / kg) | 8 | 8 | 5.3278 | 1.7209 | 5.3278 | 1.9515 | 0.86244 | 36.63% | 0.59500 | |
| 109 | Vitamin E (IU/kg) | 23 | 23 | 113.28 | 43.801 | 118.60 | 31.902 | 8.3149 | 26.90% | 6.1868 | |
| 112 | Pyridoxine (µg / g) | 2 | 2 | 12.585 | 1.3647 | | | | | | |
| 113 | Folic Acid (mg / kg (ppm)) | 2 | 2 | 19.973 | 6.6786 | | | | | | |
| 114 | Biotin (mg / kg (ppm)) | 4 | 4 | 0.90300 | 0.43567 | 0.90300 | 0.43567 | 0.21784 | 48.25% | 0.06100 | 16.24% |
| 120 | Alanine (%) | 25 | 25 | 1.2237 | 0.28894 | 1.1709 | 0.03604 | 0.00901 | 3.08% | 0.01611 | 3.91% |
| 121 | Arginine (%) | 25 | 25 | 1.0216 | 0.36307 | 0.95311 | 0.02859 | 0.00715 | 3.00% | 0.01774 | 4.03% |
| 122 | Aspartic (%) | 25 | 25 | 1.3568 | 0.37744 | 1.3017 | 0.03380 | 0.00845 | 2.60% | 0.02008 | 3.84% |
| 124 | Cysteine/Cystine (%) | 23 | 23 | 0.37216 | 0.04803 | 0.36749 | 0.02837 | 0.00739 | 7.72% | 0.00829 | 4.65% |
| 125 | Glutamic (%) | 25 | 25 | 3.5650 | 0.95281 | 3.3941 | 0.10190 | 0.02548 | 3.00% | 0.05115 | 3.33% |
| 126 | Glycine (%) | 25 | 25 | 0.80464 | 0.14822 | 0.77849 | 0.01760 | 0.00440 | 2.26% | 0.01039 | 4.15% |
| 127 | Histidine (%) | 25 | 25 | 0.48471 | 0.11200 | 0.46515 | 0.02184 | 0.00546 | 4.70% | 0.01404 | 4.49% |
| 128 | Isoleucine (%) | 25 | 25 | 0.70396 | 0.17773 | 0.67723 | 0.03686 | 0.00921 | 5.44% | 0.01362 | 4.24% |
| 129 | Leucine (%) | 25 | 25 | 1.9680 | 0.43758 | 1.8869 | 0.04862 | 0.01215 | 2.58% | 0.03238 | 3.64% |
| 130 | L-Lysine (%) | 30 | 30 | 0.88090 | 0.15767 | 0.85368 | 0.05159 | 0.01177 | 6.04% | 0.01769 | 4.10% |
| 131 | Methionine (%) | 28 | 28 | 0.41737 | 0.06937 | 0.40796 | 0.03712 | 0.00877 | 9.10% | 0.01943 | 4.58% |
| 132 | Phenylalanine (%) | 25 | 25 | 0.93241 | 0.20032 | 0.89301 | 0.03653 | 0.00913 | 4.09% | 0.01844 | 4.07% |
| 133 | Proline (%) | 24 | 24 | 1.4340 | 0.30890 | 1.3756 | 0.06071 | 0.01549 | 4.41% | 0.02685 | 3.81% |
| 134 | Serine (%) | 25 | 25 | 0.91076 | 0.25929 | 0.86532 | 0.03800 | 0.00950 | 4.39% | 0.01785 | 4.09% |
| 135 | Threonine (%) | 25 | 25 | 0.71704 | 0.16356 | 0.68499 | 0.02057 | 0.00514 | 3.00% | 0.00788 | 4.23% |
| 136 | Tryptophan (%) | 15 | 15 | 0.22390 | 0.07727 | 0.19947 | 0.01935 | 0.00624 | 9.70% | 0.00697 | 5.10% |
| 137 | Tyrosine (%) | 21 | 21 | 0.67936 | 0.19934 | 0.63746 | 0.05505 | 0.01502 | 8.64% | 0.02767 | 4.28% |
| 138 | Valine (%) | 24 | 24 | 0.90566 | 0.17544 | 0.87817 | 0.05096 | 0.01300 | 5.80% | 0.02565 | 4.08% |
| 139 | Taurine (%) | 3 | 2 | 0.13250 | 0.02475 | 0.13250 | 0.02475 | 0.01750 | 18.68% | 0.00500 | 5.42% |
| 160 | Fructose (%) | 4 | 4 | 0.42800 | 0.45925 | 0.42800 | 0.45925 | 0.22963 | 107.30% | 0.01850 | 4.54% |
| 162 | Glucose (%) | 5 | 4 | 0.38213 | 0.27782 | 0.38213 | 0.27782 | 0.13891 | 72.70% | 0.06075 | 4.62% |
| 163 | Lactose (%) | 2 | | 0.00000 | | | | | | | |
| 164 | Maltose (%) | 2 | 1 | 0.75000 | | | | | | | |

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|--------------------|--|-------------------------|-------------------------|----------|---------|------------------------------|--------------------------|--------------------------|----------------|-----------------------|--------------|
| 165 | Sucrose (%) | 5 | 5 | 1.1090 | 0.53814 | 1.1090 | 0.53814 | 0.24066 | 48.52% | 0.01800 | 3.94% |
| 166 | Raffinose (%) | 2 | 2 | 0.32250 | 0.06010 | | | | | | |
| 167 | Stachyose (%) | 2 | 2 | 0.25200 | 0.06647 | | | | | | |
| 314 | Semduramicin sodium (mg/kg (ppm)) | 1 | | 0.00000 | | | | | | | |
| 317 | Maduramicin (mg/kg (ppm)) | 1 | | 0.00000 | | | | | | | |
| 345 | Amprolium (mg/kg (ppm)) | 5 | 5 | 14.643 | 22.238 | 14.643 | 22.238 | 9.9451 | 151.87% | 1.6500 | 10.68% |
| 351 | Chlortetracycline (mg/kg (ppm)) | 2 | 2 | 0.75510 | 0.37463 | | | | | | |
| 354 | Decoquinatate (mg/kg (ppm)) | 9 | 9 | 0.97076 | 0.19332 | 0.93809 | 0.13093 | 0.05455 | 13.96% | 0.05793 | 16.15% |
| 355 | Erythromycin (mg/kg (ppm)) | 1 | | 0.00000 | | | | | | | |
| 357 | Ethoxyquin (mg/kg (ppm)) | 2 | 2 | 1.0525 | 0.07425 | | | | | | |
| 361 | Lasalocid sodium (mg/kg (ppm)) | 9 | 9 | 0.78239 | 0.24995 | 0.81936 | 0.10945 | 0.04561 | 13.36% | 0.04004 | 16.48% |
| 363 | Lincomycin (mg/kg (ppm)) | 1 | | 0.00000 | | | | | | | |
| 365 | Monensin (mg/kg (ppm)) | 1 | | 0.00000 | | | | | | | |
| 370 | Novobiocin (mg/kg (ppm)) | 1 | | 0.00000 | | | | | | | |
| 373 | Oxytetracycline (mg/kg (ppm)) | 3 | 3 | 2.0602 | 0.77140 | 2.0602 | 0.77140 | 0.44537 | 37.44% | 0.86633 | 14.35% |
| 379 | Salinomycin (mg/kg (ppm)) | 1 | | 0.00000 | | | | | | | |
| 388 | Tylosin (mg/kg (ppm)) | 3 | 3 | 0.82100 | 0.37506 | 0.82100 | 0.37506 | 0.21654 | 45.68% | 0.17400 | 16.48% |
| 389 | Virginiamycin (mg/kg (ppm)) | 1 | | 0.00000 | | | | | | | |
| 391 | Narasin (mg/kg (ppm)) | 1 | | 0.00000 | | | | | | | |
| 400 | Water activity (Units) | 8 | 8 | 0.59371 | 0.01601 | 0.59371 | 0.01816 | 0.00803 | 3.06% | 0.00409 | |
| 516 | Arsenic, total (mg / kg (ppm)) | 10 | 9 | 0.14917 | 0.02939 | 0.14445 | 0.02069 | 0.00862 | 14.32% | 0.01210 | 21.40% |
| 518 | Cadmium (mg / kg (ppm)) | 12 | 11 | 0.06137 | 0.00611 | 0.06159 | 0.00642 | 0.00242 | 10.43% | 0.00290 | 22.00% |
| 520 | Chromium (mg / kg (ppm)) | 13 | 12 | 7.6583 | 4.0865 | 7.6079 | 4.5250 | 1.6328 | 59.48% | 1.8642 | 11.79% |
| 526 | Lead (mg / kg (ppm)) | 11 | 9 | 0.19397 | 0.01385 | 0.19406 | 0.01551 | 0.00646 | 7.99% | 0.00877 | 20.47% |
| 529 | Mercury (µg / kg (ppb)) | 1 | 1 | 1.2000 | | | | | | | |
| 539 | Nickel (mg / kg (ppm)) | 8 | 7 | 2.4526 | 0.79904 | 2.4526 | 0.90611 | 0.42810 | 36.95% | 0.18661 | 13.98% |
| 702 | Butyric Acid (4:0) (%) | 1 | 1 | 0.01095 | | | | | | | |
| 704 | Caproic Acid (6:0) (%) | 1 | 1 | 0.00085 | | | | | | | |
| 706 | Caprylic acid (8:0) (% (w/w)) | 1 | 1 | 0.01955 | | | | | | | |
| 708 | Capric acid (10:0) (% (w/w)) | 1 | 1 | 0.02390 | | | | | | | |
| 710 | Lauric Acid (12:0) (% (w/w)) | 2 | 2 | 0.05080 | 0.00382 | | | | | | |
| 714 | Myristic Acid (14:0) (% (w/w)) | 1 | 1 | 0.03335 | | | | | | | |
| 716 | Palmitic Acid (16:0) (% (w/w)) | 1 | 1 | 0.77940 | | | | | | | |
| 718 | Palmitoleic Acid (9c-16:1) (% (w/w)) | 2 | 2 | 0.01915 | 0.01153 | | | | | | |
| 722 | Stearic Acid (18:0) (% (w/w)) | 1 | 1 | 0.08110 | | | | | | | |
| 724 | Oleic Acid (9c-18:1) (% (w/w)) | 1 | 1 | 1.2525 | | | | | | | |
| 726 | Linoleic Acid (9c,12c-18:2) (% (w/w)) | 2 | 2 | 2.1208 | 0.43370 | | | | | | |
| 728 | alpha-Linolenic Acid (9c,12c,15c-18:3) (% (w/w)) | 2 | 2 | 0.79158 | 0.02181 | | | | | | |

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|--------------------|---|-------------------------|-------------------------|----------|---------|------------------------------|--------------------------|------------------------|----------------|-----------------------|--------------|
| 730 | Arachidic Acid (20:0) (% (w/w)) | 1 | 1 | 0.03715 | | | | | | | |
| 732 | Gondoic Acid (11c-20:1) (% (w/w)) | 1 | 1 | 0.03615 | | | | | | | |
| 736 | Arachidonic Acid (5c,8c,11c,14c-20:4) (% (w/w)) | 2 | | 0.00000 | | | | | | | |
| 738 | Mead Acid (11c,14c,17c-20:3) (% (w/w)) | 1 | | 0.00000 | | | | | | | |
| 740 | Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5) (% (w/w)) | 2 | 1 | 0.04200 | | | | | | | |
| 744 | Erucic Acid (13c-22:1) (% (w/w)) | 1 | | 0.00000 | | | | | | | |
| 746 | Docosapentaenoic Acid n-3 DPA (DHA) (7c,10c,13c,16c,19c-22:5) (% (w/w)) | 2 | | 0.00000 | | | | | | | |
| 750 | Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c,22:6) (% (w/w)) | 2 | | 0.00000 | | | | | | | |
| 752 | Nervonic Acid (24:1) isomers (% (w/w)) | 1 | | 0.00000 | | | | | | | |
| 754 | Total n-3 Polyunsaturated (Omega-3) Fatty Acids (% (w/w)) | 5 | 5 | 0.81200 | 0.07791 | 0.81200 | 0.07791 | 0.03484 | 9.59% | 0.02080 | |
| 756 | Total n-6 Polyunsaturated (Omega-6) Fatty Acids (% (w/w)) | 3 | 3 | 2.4965 | 0.05779 | 2.4965 | 0.05779 | 0.03337 | 2.31% | 0.11033 | |
| 758 | Total Saturated Fatty Acids (% (w/w)) | 1 | 1 | 17.070 | | | | | | | |
| 762 | Total Monounsaturated Fatty Acids (% (w/w)) | 1 | 1 | 25.460 | | | | | | | |
| 766 | Total Polyunsaturated Fatty Acids (% (w/w)) | 1 | 1 | 57.430 | | | | | | | |

Notes: Robust statistics not used if < 6 labs reporting, in this case means and SD's may be reported based on Raw Data with obvious blunders removed.