

Animal Feed Scheme
Swine Feed, Medicated
Test Material Code # 201822
Analyte Summary Report
Analytes Reported: 116
Labs Reporting: 202
Issue Date : 03/31/2018

| Analyte Group Code | Analyte and Method | Total # Tests Submitted | # Tests in Robust Calcs | Raw Mean | Raw SD | Assigned Value Robust Mean | AAFCO PT ffp - Robust sd | Uncertainty (U) - Robust | % RSD - Robust | Average Range (R-bar) | Horwitz %RSD |
|--------------------|------------------------------|-------------------------|-------------------------|----------|---------|----------------------------|--------------------------|--------------------------|----------------|-----------------------|--------------|
| 000 | Urea (%) | 1 | 1 | 0.15000 | | | | | | | |
| 001 | Loss on Drying (%) | 81 | 80 | 8.2460 | 0.41637 | 8.3011 | 0.28174 | 0.03937 | 3.39% | 0.14420 | 2.91% |
| 002 | Protein, Crude (%) | 207 | 203 | 18.679 | 0.73017 | 18.596 | 0.34101 | 0.02992 | 1.83% | 0.17691 | 2.32% |
| 003 | Fat, Crude (%) | 155 | 153 | 3.4474 | 0.53856 | 3.4730 | 0.42990 | 0.04344 | 12.38% | 0.10899 | 3.32% |
| 004 | Fiber, Crude (%) | 133 | 128 | 3.9221 | 0.61685 | 3.8438 | 0.43509 | 0.04807 | 11.32% | 0.15925 | 3.27% |
| 005 | Ash (%) | 145 | 141 | 14.828 | 0.92774 | 14.983 | 0.54259 | 0.05712 | 3.62% | 0.17272 | 2.58% |
| 006 | Total Sugars (%) | 5 | 5 | 5.3350 | 1.5089 | 5.3350 | 1.5089 | 0.84350 | 28.28% | 0.39000 | 3.11% |
| 008 | Fiber, Acid Detergent (%) | 60 | 59 | 5.1992 | 0.68993 | 5.1746 | 0.66611 | 0.10840 | 12.87% | 0.22688 | 3.12% |
| 009 | Fiber, Neutral Detergent (%) | 59 | 57 | 10.633 | 1.1834 | 10.626 | 1.1667 | 0.19316 | 10.98% | 0.32707 | 2.80% |
| 010 | Moisture (%) | 31 | 31 | 8.5896 | 0.75329 | 8.5973 | 0.58017 | 0.13025 | 6.75% | 0.09375 | 2.89% |
| 011 | Loss on Drying (%) | 71 | 69 | 9.1288 | 0.40983 | 9.1555 | 0.29677 | 0.04466 | 3.24% | 0.09278 | 2.87% |
| 012 | Starch (%) | 42 | 41 | 30.318 | 2.7911 | 30.613 | 1.6210 | 0.31644 | 5.29% | 0.42352 | 1.81% |
| 013 | Fat, Acid Pretreat (%) | 51 | 50 | 4.4646 | 0.74046 | 4.4401 | 0.66015 | 0.11670 | 14.87% | 0.16450 | 3.20% |
| 015 | Aluminum (mg / kg (ppm)) | 13 | 12 | 229.01 | 29.965 | 229.60 | 32.685 | 11.794 | 14.24% | 6.7493 | 7.06% |
| 017 | Boron (mg / kg (ppm)) | 14 | 13 | 13.170 | 1.1912 | 13.100 | 1.1813 | 0.40955 | 9.02% | 0.36802 | 10.86% |
| 019 | Calcium (%) | 148 | 144 | 4.0145 | 0.26069 | 4.0231 | 0.21224 | 0.02211 | 5.28% | 0.09179 | 3.24% |
| 021 | Cobalt (mg / kg (ppm)) | 26 | 24 | 1.6058 | 0.31305 | 1.6111 | 0.31170 | 0.07953 | 19.35% | 0.09408 | 14.89% |
| 022 | Copper (mg / kg (ppm)) | 104 | 103 | 190.94 | 24.407 | 190.64 | 17.747 | 2.1858 | 9.31% | 7.9132 | 7.26% |
| 024 | Iodine (mg / kg (ppm)) | 1 | 1 | 2.5000 | | | | | | | |
| 025 | Iron (mg / kg (ppm)) | 94 | 93 | 1,124.6 | 208.18 | 1,160.7 | 113.40 | 14.699 | 9.77% | 40.474 | 5.53% |
| 027 | Magnesium (%) | 96 | 93 | 0.21652 | 0.01535 | 0.21581 | 0.01241 | 0.00161 | 5.75% | 0.00818 | 5.04% |
| 028 | Manganese (mg / kg (ppm)) | 104 | 102 | 180.98 | 18.213 | 180.46 | 11.335 | 1.4029 | 6.28% | 6.6494 | 7.32% |
| 031 | Phosphorus (%) | 147 | 144 | 1.1362 | 0.06794 | 1.1400 | 0.05776 | 0.00602 | 5.07% | 0.02932 | 3.92% |
| 032 | Potassium (%) | 98 | 96 | 0.92173 | 0.06496 | 0.91773 | 0.04454 | 0.00568 | 4.85% | 0.01969 | 4.05% |
| 033 | Salt as chloride (%) | 75 | 73 | 1.9514 | 0.23672 | 1.9792 | 0.11083 | 0.01622 | 5.60% | 0.03373 | 3.61% |
| 034 | Selenium (mg / kg (ppm)) | 28 | 28 | 2.1157 | 0.46053 | 2.1374 | 0.41770 | 0.09867 | 19.54% | 0.14381 | 14.27% |
| 035 | Sodium (%) | 107 | 106 | 0.73075 | 0.04869 | 0.73150 | 0.04479 | 0.00544 | 6.12% | 0.02349 | 4.19% |
| 036 | Sulfur (%) | 39 | 39 | 0.29548 | 0.02977 | 0.29446 | 0.02795 | 0.00559 | 9.49% | 0.00919 | 4.81% |
| 037 | Zinc (mg / kg (ppm)) | 102 | 101 | 625.06 | 67.080 | 629.03 | 50.275 | 6.2531 | 7.99% | 24.315 | 6.06% |
| 038 | Molybdenum (mg / kg (ppm)) | 20 | 19 | 2.0590 | 0.23142 | 2.0473 | 0.23397 | 0.06710 | 11.43% | 0.06258 | 14.36% |
| 040 | Barium (mg / kg (ppm)) | 3 | 3 | 4.5975 | 0.35092 | 4.5975 | 0.35092 | 0.25325 | 7.63% | 0.22493 | 12.72% |
| 041 | Vanadium (mg / kg (ppm)) | 2 | 2 | 4.0711 | 0.06520 | | | | | | |

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|--------------------|----------------------------------|-------------------------|-------------------------|----------|---------|----------------------------|--------------------------|--------------------------|----------------|-----------------------|--------------|
| 042 | Chloride (%) | 1 | 1 | 1.2455 | | | | | | | |
| 101 | Choline Chloride (mg / kg (ppm)) | 3 | 3 | 2,018.3 | 501.09 | 2,018.3 | 501.09 | 361.63 | 24.83% | 94.317 | 5.09% |
| 102 | Niacin (mg / kg (ppm)) | 2 | 2 | 172.81 | 52.595 | | | | | | |
| 103 | Pantothenic Acid (mg / kg (ppm)) | 1 | 1 | 87.750 | | | | | | | |
| 104 | Riboflavin (mg / kg (ppm)) | 5 | 4 | 32.608 | 3.6846 | 32.608 | 3.6846 | 2.3029 | 11.30% | 1.8150 | 9.47% |
| 105 | Thiamine (mg / kg (ppm)) | 2 | 2 | 8.8825 | 0.68236 | | | | | | |
| 106 | Vitamin A (KU / kg) | 25 | 25 | 27.533 | 7.5566 | 26.748 | 5.1509 | 1.2877 | 19.26% | 3.7941 | |
| 107 | Vitamin B12 (µg / kg (ppb)) | 1 | 1 | 72.600 | | | | | | | |
| 108 | Vitamin D3 (KU / kg) | 5 | 5 | 3.1710 | 0.88111 | 3.1710 | 0.88111 | 0.49256 | 27.79% | 0.11400 | |
| 109 | Vitamin E (IU / kg) | 18 | 18 | 116.17 | 28.114 | 117.19 | 16.103 | 4.7445 | 13.74% | 5.6001 | |
| 112 | Pyridoxine (µg / g) | 1 | 1 | 4.5650 | | | | | | | |
| 113 | Folic Acid (mg / kg (ppm)) | 2 | 2 | 1.0950 | 0.82731 | | | | | | |
| 114 | Biotin (mg / kg (ppm)) | 1 | 1 | 0.28200 | | | | | | | |
| 120 | Alanine (%) | 30 | 30 | 0.92453 | 0.05019 | 0.91866 | 0.03155 | 0.00720 | 3.43% | 0.01663 | 4.05% |
| 121 | Arginine (%) | 29 | 28 | 1.1877 | 0.05881 | 1.1870 | 0.04325 | 0.01022 | 3.64% | 0.03411 | 3.90% |
| 122 | Aspartic (%) | 30 | 28 | 1.8628 | 0.08629 | 1.8508 | 0.05801 | 0.01370 | 3.13% | 0.02400 | 3.65% |
| 124 | Cysteine/Cystine (%) | 30 | 29 | 0.29550 | 0.03693 | 0.29921 | 0.02265 | 0.00526 | 7.57% | 0.00762 | 4.80% |
| 125 | Glutamic (%) | 30 | 29 | 3.3053 | 0.24894 | 3.3116 | 0.16968 | 0.03939 | 5.12% | 0.04436 | 3.34% |
| 126 | Glycine (%) | 30 | 30 | 0.78849 | 0.02797 | 0.78628 | 0.02222 | 0.00507 | 2.83% | 0.01417 | 4.15% |
| 127 | Histidine (%) | 30 | 30 | 0.48799 | 0.04850 | 0.47983 | 0.02206 | 0.00503 | 4.60% | 0.01141 | 4.47% |
| 128 | Isoleucine (%) | 30 | 29 | 0.75342 | 0.04844 | 0.75765 | 0.04134 | 0.00960 | 5.46% | 0.01196 | 4.17% |
| 129 | Leucine (%) | 30 | 29 | 1.5123 | 0.04846 | 1.5099 | 0.03860 | 0.00896 | 2.56% | 0.01743 | 3.76% |
| 130 | L-Lysine (%) | 33 | 32 | 1.0905 | 0.07184 | 1.0858 | 0.03710 | 0.00820 | 3.42% | 0.02285 | 3.95% |
| 131 | Methionine (%) | 32 | 32 | 0.28763 | 0.09410 | 0.27257 | 0.03212 | 0.00710 | 11.78% | 0.00771 | 4.86% |
| 132 | Phenylalanine (%) | 30 | 29 | 0.88771 | 0.05423 | 0.88389 | 0.03085 | 0.00716 | 3.49% | 0.01375 | 4.07% |
| 133 | Proline (%) | 29 | 28 | 1.0953 | 0.09627 | 1.0854 | 0.05780 | 0.01365 | 5.32% | 0.02219 | 3.95% |
| 134 | Serine (%) | 30 | 29 | 0.90628 | 0.06037 | 0.90613 | 0.05496 | 0.01276 | 6.07% | 0.01812 | 4.06% |
| 135 | Threonine (%) | 29 | 28 | 0.71374 | 0.03506 | 0.71044 | 0.02930 | 0.00692 | 4.12% | 0.01075 | 4.21% |
| 136 | Tryptophan (%) | 18 | 18 | 0.22121 | 0.03629 | 0.22443 | 0.02002 | 0.00590 | 8.92% | 0.00594 | 5.01% |
| 137 | Tyrosine (%) | 21 | 21 | 0.59315 | 0.09852 | 0.59124 | 0.07430 | 0.02027 | 12.57% | 0.02427 | 4.33% |
| 138 | Valine (%) | 29 | 29 | 0.84718 | 0.04654 | 0.84907 | 0.04149 | 0.00963 | 4.89% | 0.02004 | 4.10% |
| 139 | Taurine (%) | 3 | 1 | | | | | | | | |
| 142 | Threonine Free (%) | 1 | 1 | 0.85400 | | | | | | | |
| 150 | Phytase (Units / kg) | 6 | 6 | 2,530.3 | 1,053.8 | 2,395.2 | 864.03 | 440.92 | 36.07% | 107.33 | |
| 160 | Fructose (%) | 4 | 3 | 0.23400 | 0.10160 | 0.23400 | 0.10160 | 0.07332 | 43.42% | 0.00400 | 4.98% |
| 162 | Glucose (%) | 4 | 3 | 0.21383 | 0.06946 | 0.21383 | 0.06946 | 0.05013 | 32.48% | 0.02700 | 5.04% |
| 163 | Lactose (%) | 4 | 4 | 1.2200 | 0.13681 | 1.2200 | 0.13681 | 0.08551 | 11.21% | 0.01500 | 3.88% |
| 164 | Maltose (%) | 3 | | | | | | | | | |
| 165 | Sucrose (%) | 4 | 4 | 3.0713 | 0.07227 | 3.0713 | 0.07227 | 0.04517 | 2.35% | 0.07250 | 3.38% |
| 166 | Raffinose (%) | 2 | 2 | 0.41675 | 0.07319 | | | | | | |

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| 167 | Stachyose (%) | 2 | 2 | 1.3850 | 0.14849 | | | | | | |
| 348 | Bacitracin (mg/kg (ppm)) | 1 | 1 | 69.655 | | | | | | | |
| 350 | Carbadox (mg/kg (ppm)) | 6 | 5 | 23.385 | 2.1838 | 23.385 | 2.1838 | 1.2208 | 9.34% | 0.40780 | 9.95% |
| 351 | Chlortetracycline (mg/kg (ppm)) | 17 | 16 | 77.639 | 12.168 | 77.948 | 11.439 | 3.5745 | 14.67% | 3.7458 | 8.30% |
| 377 | Pyrantel Tartrate (mg/kg (ppm)) | 3 | 3 | 48.115 | 4.6199 | 48.115 | 4.6199 | 3.3341 | 9.60% | 6.9310 | 8.93% |
| 382 | Sulfamethazine (mg/kg (ppm)) | 8 | 7 | 83.528 | 4.7816 | 83.528 | 5.4223 | 2.5618 | 6.49% | 4.8559 | 8.22% |
| 386 | Tiamulin (mg/kg (ppm)) | 6 | 6 | 145.07 | 32.351 | 145.07 | 36.686 | 18.721 | 25.29% | 8.8940 | 7.56% |
| 400 | Water Activity (Units) | 9 | 9 | 0.50498 | 0.02427 | 0.50498 | 0.02753 | 0.01147 | 5.45% | 0.00217 | |
| 412 | Starch, Dietary (%) | 2 | 2 | 29.728 | 0.79550 | | | | | | |
| 516 | Arsenic, Total (mg / kg (ppm)) | 13 | 12 | 0.52005 | 0.14593 | 0.49970 | 0.10646 | 0.03842 | 21.30% | 0.01688 | 17.76% |
| 518 | Cadmium (mg / kg (ppm)) | 11 | 11 | 0.26806 | 0.02929 | 0.27113 | 0.02402 | 0.00905 | 8.86% | 0.01043 | 19.47% |
| 520 | Chromium (mg / kg (ppm)) | 11 | 11 | 6.3366 | 1.5111 | 6.3366 | 1.7136 | 0.64583 | 27.04% | 0.42145 | 12.12% |
| 526 | Lead (mg / kg (ppm)) | 10 | 9 | 0.35433 | 0.09123 | 0.33421 | 0.03399 | 0.01416 | 10.17% | 0.01187 | 18.87% |
| 529 | Mercury (µg / kg (ppb)) | 3 | 3 | 5.4200 | 2.9225 | 5.4200 | 2.9225 | 2.1091 | 53.92% | 0.51333 | 22.00% |
| 539 | Nickel (mg / kg (ppm)) | 7 | 6 | 3.7570 | 0.59531 | 3.7570 | 0.67508 | 0.34450 | 17.97% | 0.04992 | 13.11% |
| 702 | Butyric Acid (4:0) (%) | 2 | 1 | 0.00150 | | | | | | | |
| 703 | Valeric Acid (5:0) (%) | 1 | | 0.01000 | | | | | | | |
| 704 | Caproic Acid (6:0) (%) | 2 | 2 | 0.03100 | 0.04101 | | | | | | |
| 706 | Caprylic acid (8:0) (%) (w/w) | 2 | 1 | 0.00010 | | | | | | | |
| 708 | Capric acid (10:0) (%) (w/w) | 1 | | 0.00000 | | | | | | | |
| 710 | Lauric Acid (12:0) (%) (w/w) | 4 | 2 | 0.00060 | 0.00057 | 0.00060 | 0.00057 | 0.00050 | 95.00% | 0.00000 | |
| 714 | Myristic Acid (14:0) (%) (w/w) | 3 | 3 | 0.01275 | 0.00863 | 0.01275 | 0.00863 | 0.00623 | 67.69% | 0.00043 | |
| 716 | Palmitic Acid (16:0) (%) (w/w) | 3 | 3 | 0.40787 | 0.28674 | 0.40787 | 0.28674 | 0.20694 | 70.30% | 0.02220 | |
| 718 | Palmitoleic Acid (9c-16:1) (%) (w/w) | 4 | 4 | 0.02041 | 0.01067 | 0.02041 | 0.01067 | 0.00667 | 52.28% | 0.00178 | |
| 720 | Margaric acid (17:0) (%) (w/w) | 1 | 1 | 0.00100 | | | | | | | |
| 722 | Stearic Acid (18:0) (%) (w/w) | 3 | 3 | 0.09202 | 0.06705 | 0.09202 | 0.06705 | 0.04839 | 72.86% | 0.00617 | |
| 724 | Oleic Acid (9c-18:1) (%) (w/w) | 3 | 3 | 0.68783 | 0.44420 | 0.68783 | 0.44420 | 0.32057 | 64.58% | 0.03860 | |
| 726 | Linoleic Acid (9c,12c-18:2) (%) (w/w) | 4 | 3 | 1.6583 | 0.05619 | 1.6583 | 0.05619 | 0.04055 | 3.39% | 0.07437 | |
| 728 | alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w) | 4 | 4 | 0.08001 | 0.04758 | 0.08001 | 0.04758 | 0.02974 | 59.47% | 0.00273 | |
| 730 | Arachidic Acid (20:0) (%) (w/w) | 3 | 3 | 0.01163 | 0.00839 | 0.01163 | 0.00839 | 0.00605 | 72.14% | 0.00047 | |
| 732 | Gondoic Acid (11c-20:1) (%) (w/w) | 3 | 3 | 0.01213 | 0.00842 | 0.01213 | 0.00842 | 0.00608 | 69.41% | 0.00133 | |
| 736 | Arachidonic Acid (5c,8c,11c,14c-20:4) (%) (w/w) | 2 | 1 | 0.00150 | | | | | | | |
| 738 | Mead Acid (11c,14c,17c-20:3) (%) (w/w) | 2 | 1 | 0.00020 | | | | | | | |
| 740 | Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5) (%) (w/w) | 4 | 2 | 0.00130 | 0.00099 | 0.00130 | 0.00099 | 0.00088 | 76.15% | 0.00000 | |
| 742 | Behenic Acid (22:0) (%) (w/w) | 2 | 2 | 0.00530 | 0.00580 | | | | | | |
| 744 | Erucic Acid (13c-22:1) (%) (w/w) | 3 | 1 | | | | | | | | |
| 746 | Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%) (w/w) | 4 | 1 | | | | | | | | |
| 748 | Lignoceric Acid (24:0) (%) (w/w) | 2 | 2 | 0.00470 | 0.00509 | | | | | | |
| 750 | Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%) (w/w) | 4 | 2 | 0.00090 | 0.00085 | 0.00090 | 0.00085 | 0.00075 | 94.44% | 0.00050 | |
| 752 | Nervonic Acid (24:1) isomers (%) (w/w) | 3 | 1 | | | | | | | | |

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|--------------------|---|-------------------------|-------------------------|----------|--------|----------------------------|--------------------------|--------------------------|----------------|-----------------------|--------------|
| 754 | Total n-3 Polyunsaturated (Omega-3) Fatty Acids (% (w/w)) | 1 | 1 | 0.12000 | | | | | | | |
| 756 | Total n-6 Polyunsaturated (Omega-6) Fatty Acids (% (w/w)) | 1 | 1 | 1.6050 | | | | | | | |
| 770 | Total Fat (equivalent to NLEA) (% (w/w)) | 1 | 1 | 0.55000 | | | | | | | |
| 772 | Total Fatty Acids (% (w/w)) | 1 | 1 | 3.7382 | | | | | | | |

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.