



Animal Feed Scheme
Swine Mineral
Test Material Code # 202097

Analyte Summary Report

Labs Reporting: 157
Analytes Reported: 103
Issue Date : 08/31/2020

Analyte Group Code	Analyte and Method	Total # Tests Submitted	# Tests in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO #fp Robust SD	Uncertainty (U) Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
001	Loss on Drying (%)	39	37	2.116	1.069	1.930	0.2185	0.0449	11.32%	0.1081	3.62%
002	Protein, Crude (%)	58	55	1.888	2.307	1.441	0.1843	0.0311	12.79%	0.0595	3.79%
003	Fat, Crude (%)	39	37	0.7975	0.3532	0.7474	0.1977	0.0406	26.45%	0.0405	4.18%
004	Fiber, Crude (%)	27	26	2.587	2.641	2.197	1.334	0.3269	60.71%	0.1969	3.55%
005	Ash (%)	69	66	81.63	2.897	82.03	1.355	0.2085	1.65%	0.3895	1.10%
006	Total Sugars (%)	2	1	2.850							
008	Fiber, Acid Detergent (%)	8	6	5.064	3.189	5.064	3.617	1.846	71.42%	0.8219	3.13%
009	Fiber, Neutral Detergent (%)	9	8	7.930	8.633	6.962	7.391	3.267	106.17%	0.4141	2.99%
010	Moisture (%)	9	9	3.269	3.001	2.443	0.8303	0.3459	33.99%	0.0633	3.50%
011	Loss on Drying (%)	36	36	3.276	0.9621	3.226	0.4748	0.0989	14.72%	0.1168	3.35%
012	Starch (%)	13	10	1.322	0.9873	1.267	0.9904	0.3915	78.15%	0.1110	3.86%
013	Fat, Acid Pretreat (%)	20	19	1.869	1.303	1.668	0.8386	0.2405	50.27%	0.1294	3.70%
015	Aluminum (ppm)	15	15	1,337	436.4	1,416	265.3	85.62	18.74%	36.71	5.37%
017	Boron (ppm)	14	14	27.13	9.756	25.99	8.295	2.771	31.92%	1.079	9.80%
019	Calcium (%)	121	118	27.15	3.124	27.56	1.364	0.1569	4.95%	0.5671	1.90%
021	Cobalt (ppm)	21	19	6.910	3.827	6.474	1.845	0.5291	28.50%	0.3700	12.08%
022	Copper (ppm)	100	97	360.7	36.84	363.1	24.40	3.097	6.72%	17.11	6.59%
024	Iodine (ppm)	2	2	23.36	3.119						
025	Iron (ppm)	92	91	5,147	1,011	5,224	570.3	74.73	10.92%	141.2	4.41%
027	Magnesium (%)	68	67	0.6179	0.0632	0.6242	0.0480	0.0073	7.69%	0.0211	4.29%
028	Manganese (ppm)	96	94	847.1	142.7	851.5	89.06	11.48	10.46%	23.47	5.79%
031	Phosphorus (%)	113	111	4.893	0.6267	4.959	0.2619	0.0311	5.28%	0.1362	3.14%
032	Potassium (%)	67	66	0.2554	0.1059	0.2406	0.0580	0.0089	24.12%	0.0196	4.96%
033	Salt as chloride (%)	62	61	6.461	1.151	6.484	0.3250	0.0520	5.01%	0.1146	3.02%
034	Selenium (ppm)	35	35	10.95	2.222	11.07	2.225	0.4702	20.10%	0.5729	11.14%
035	Sodium (%)	70	68	2.417	0.4647	2.400	0.1552	0.0235	6.47%	0.0616	3.51%
036	Sulfur (%)	34	33	0.6270	0.1318	0.6051	0.0733	0.0159	12.11%	0.0217	4.31%
037	Zinc (ppm)	100	98	3,945	615.4	4,028	359.9	45.45	8.93%	105.8	4.59%
038	Molybdenum (ppm)	15	14	1.382	0.6014	1.428	0.5773	0.1929	40.44%	0.1078	15.16%

Analyte Group Code	Analyte and Method	Total # Tests Submitted	# Tests in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO ffp Robust SD	Uncertainty (U) - Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
040	Barium (ppm)	1	1	11.60							
041	Vanadium (ppm)	2	2	10.76	1.686						
042	Chloride (%)	4	4	4.029	0.3756	4.029	0.3756	0.1878	9.32%	0.0225	3.24%
099	Menadione (form) (ppm)	2	2	7.855	2.143						
101	Choline Chloride (ppm)	2	2	10,363	1,467						
102	Niacin (ppm)	9	9	970.3	308.2	976.4	335.8	139.9	34.39%	47.78	5.68%
103	Pantothenic Acid (ppm)	8	7	572.1	47.96	570.4	50.43	23.82	8.84%	17.50	6.15%
104	Riboflavin (ppm)	9	9	219.8	40.68	221.6	41.78	17.41	18.85%	7.403	7.10%
105	Thiamine (ppm)	2	2	1.255	0.1697						
106	Vitamin A (KU / kg)	24	23	41.33	15.40	40.91	16.53	4.308	40.40%	7.731	
107	Vitamin B12 (ppb)	3	3	134.0	44.38	134.0	44.38	25.62	33.12%	9.733	21.65%
108	Vitamin D3 (KU / kg)	6	5	2.424	1.352	2.424	1.352	0.2388	55.77%	0.5600	
109	Vitamin E (IU / kg)	18	18	828.3	190.2	829.1	140.8	41.47	16.98%	50.14	
111	Vitamin C, Phosphorylated (ppm)	1		0.4400							
112	Pyridoxine (µg / g)	1	1	2.775							
113	Folic Acid (ppm)	1	1	1.115							
114	Biotin (ppm)	1	1	0.0745							
118	Peroxide value (meq/kg)	1	1	10.50							
120	Alanine (%)	6	5	0.0153	0.0058	0.0153	0.0058	0.0032	37.89%	0.0012	7.50%
121	Arginine (%)	6	3	0.0136	0.0038	0.0136	0.0038	0.0028	28.05%	0.0002	7.64%
122	Aspartic (%)	6	3	0.0301	0.0067	0.0301	0.0067	0.0048	22.24%	0.0005	6.78%
124	Cysteine/Cystine (%)	7	3	0.0106	0.0093	0.0106	0.0093	0.0067	87.92%	0.0004	7.93%
125	Glutamic (%)	6	5	0.0448	0.0145	0.0448	0.0145	0.0081	32.28%	0.0053	6.38%
126	Glycine (%)	6	4	0.0165	0.0060	0.0165	0.0060	0.0037	36.41%	0.0007	7.42%
127	Histidine (%)	6	2	0.0100	0.0070	0.0100	0.0070	0.0062	70.19%	0.0051	8.00%
128	Isoleucine (%)	6	3	0.0116	0.0010	0.0116	0.0010	0.0007	8.20%	0.0011	7.82%
129	Leucine (%)	6	4	0.0226	0.0059	0.0226	0.0059	0.0037	26.33%	0.0027	7.08%
130	L-Lysine (%)	6	2	0.0277	0.0174	0.0277	0.0174	0.0154	62.78%	0.0002	6.86%
131	Methionine (%)	7	2	0.0084	0.0037	0.0084	0.0037	0.0033	44.27%	0.0001	8.21%
132	Phenylalanine (%)	6	3	0.0394	0.0268	0.0394	0.0268	0.0193	68.07%	0.0019	6.51%
133	Proline (%)	6	3	0.0164	0.0127	0.0164	0.0127	0.0092	77.86%	0.0017	7.43%
134	Serine (%)	6	3	0.0161	0.0032	0.0161	0.0032	0.0023	19.73%	0.0008	7.44%
135	Threonine (%)	6	3	0.0147	0.0040	0.0147	0.0040	0.0029	26.97%	0.0014	7.55%
136	Tryptophan (%)	7	1								
137	Tyrosine (%)	4	1								
138	Valine (%)	6	1								
139	Taurine (%)	2		0.0100							
150	Phytase (Units / kg)	4	3	13,282	10,458	13,282	10,458	6,038	78.74%	318.7	
160	Fructose (%)	1		0.1500							
162	Glucose (%)	1		0.1500							

Analyte Group Code	Analyte and Method	Total # Tests Submitted	# Tests in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO ffp Robust SD	Uncertainty (U) - Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
163	Lactose (%)	1		0.1500							
164	Maltose (%)	1		0.1500							
165	Sucrose (%)	1		0.1500							
166	Raffinose (%)	1		0.0500							
167	Stachyose (%)	1		0.0500							
400	Water Activity (Units)	8	8	0.4737	0.0561	0.4850	0.0123	0.0054	2.54%	0.0045	
516	Arsenic, Total (ppm)	10	9	0.6773	0.1803	0.6927	0.1671	0.0696	24.13%	0.0993	16.91%
518	Cadmium (ppm)	13	13	0.8512	0.1649	0.8370	0.1503	0.0521	17.96%	0.0291	16.43%
520	Chromium (ppm)	13	13	60.18	9.698	60.19	10.97	3.804	18.23%	1.720	8.63%
526	Lead (ppm)	13	13	1.842	0.7310	1.751	0.4734	0.1641	27.03%	0.0616	14.70%
529	Mercury (ppb)	3	1								
539	Nickel (ppm)	9	9	9.279	1.813	9.279	2.056	0.8568	22.16%	0.7602	11.44%
710	Lauric Acid (12:0) (%) (w/w)	1		0.0200							
714	Myristic Acid (14:0) (%) (w/w)	1		0.0200							
716	Palmitic Acid (16:0) (%) (w/w)	1	1	0.2435							
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	1		0.0000							
722	Stearic Acid (18:0) (%) (w/w)	1	1	0.0670							
724	Oleic Acid (9c-18:1) (%) (w/w)	1	1	0.1885							
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	2	2	0.0655	0.0262						
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	2	1	0.0025							
730	Arachidic Acid (20:0) (%) (w/w)	1		0.0200							
732	Gondoic Acid (11c-20:1) (%) (w/w)	1		0.0200							
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (%) (w/w)	1		0.0000							
740	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5) (%) (w/w)	1		0.0000							
742	Behenic Acid (22:0) (%) (w/w)	1		0.0200							
746	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%) (w/w)	1		0.0000							
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%) (w/w)	1		0.0000							
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids (%) (w/w)	2		0.0000							
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (%) (w/w)	2	2	0.0683	0.0258						
758	Total Saturated Fatty Acids (%) (w/w)	1	1	0.3715							
762	Total Monounsaturated Fatty Acids (%) (w/w)	1	1	0.2095							
766	Total Polyunsaturated Fatty Acids (%) (w/w)	1	1	0.1125							
770	Total Fat (equivalent to NLEA) (%) (w/w)	1	1	0.7645							
772	Total Fatty Acids (%) (w/w)	1	1	0.7300							

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. Robust Assigned Values indicated in bold font.