

**Animal Feed Scheme**
**Analyte Summary Report**
**# Analytes Reported: 116**
**Equine Feed**
**# Labs Reporting: 175**
**Test Material Code # 201921**
**Issue Date : 02/28/2019**

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 (%)	2	2	0.2432	0.0804						
001	Loss on Drying (%)	72	69	7.896	0.3832	7.912	0.2762	0.0416	3.49%	0.0901	2.93%
002	Protein, Crude (%)	172	168	15.19	0.4526	15.17	0.3017	0.0291	1.99%	0.1270	2.57%
003	Fat, Crude (%)	135	132	7.661	1.512	8.011	0.7973	0.0867	9.95%	0.1472	2.92%
004	Fiber, Crude (%)	124	123	15.04	1.206	15.01	0.8996	0.1014	5.99%	0.2695	2.58%
005	Ash (%)	138	136	8.301	0.3017	8.295	0.2634	0.0282	3.18%	0.0840	2.91%
006	Total Sugars (%)	3	3	3.980	0.4104	3.980	0.4104	0.2369	10.31%	0.3800	3.25%
008	Fiber, Acid Detergent (%)	60	59	19.55	1.062	19.54	1.008	0.1640	5.16%	0.2689	2.26%
009	Fiber, Neutral Detergent (%)	57	56	36.41	2.035	36.34	1.705	0.2848	4.69%	0.4631	1.66%
010	Moisture (%)	19	18	8.208	0.9115	8.117	0.7269	0.2142	8.96%	0.0640	2.92%
011	Loss on Drying (%)	71	69	8.675	0.5138	8.722	0.3769	0.0567	4.32%	0.0908	2.89%
012	Starch (%)	38	38	13.51	3.093	13.54	1.670	0.3386	12.33%	0.2593	2.70%
013	Fat, Acid Pretreat (%)	49	48	9.278	0.9482	9.272	0.7721	0.1393	8.33%	0.2397	2.86%
015	Aluminum (mg / kg (ppm))	15	15	197.8	27.73	198.6	22.44	7.244	11.30%	13.79	7.21%
017	Boron (mg / kg (ppm))	18	18	11.27	1.656	11.46	1.242	0.3660	10.84%	0.6680	11.08%
019	Calcium (%)	137	134	1.214	0.0750	1.214	0.0630	0.0068	5.19%	0.0300	3.88%
021	Cobalt (mg / kg (ppm))	26	26	10.78	4.168	10.57	4.103	1.006	38.82%	0.4791	11.22%
022	Copper (mg / kg (ppm))	94	92	122.6	11.13	123.3	7.291	0.9502	5.91%	3.859	7.75%
024	Iodine (mg / kg (ppm))	2	2	2.699	0.7838						
025	Iron (mg / kg (ppm))	85	84	533.3	98.92	537.2	60.11	8.199	11.19%	18.75	6.21%
027	Magnesium (%)	96	95	0.4092	0.0308	0.4094	0.0277	0.0036	6.77%	0.0110	4.58%
028	Manganese (mg / kg (ppm))	91	90	215.3	14.74	215.8	15.14	1.995	7.02%	6.963	7.12%
031	Phosphorus (%)	130	128	0.8043	0.0563	0.8083	0.0396	0.0044	4.90%	0.0180	4.13%
032	Potassium (%)	100	96	1.124	0.0970	1.124	0.0607	0.0077	5.40%	0.0274	3.93%
033	Salt as chloride (%)	58	57	0.8271	0.0928	0.8404	0.0671	0.0111	7.98%	0.0185	4.11%
034	Selenium (mg / kg (ppm))	25	24	2.092	0.4226	2.071	0.4303	0.1098	20.78%	0.1611	14.34%
035	Sodium (%)	99	98	0.2869	0.0280	0.2878	0.0212	0.0027	7.35%	0.0085	4.82%
036	Sulfur (%)	43	41	0.2601	0.0182	0.2604	0.0201	0.0039	7.73%	0.0047	4.90%
037	Zinc (mg / kg (ppm))	95	93	429.8	33.78	430.0	31.74	4.114	7.38%	13.77	6.42%
038	Molybdenum (mg / kg (ppm))	23	22	3.410	0.5627	3.432	0.5590	0.1490	16.29%	0.2104	13.29%
040	Barium (mg / kg (ppm))	2	2	11.46	0.7296						
042	Chloride (%)	3	3	0.5338	0.0133	0.5338	0.0133	0.0077	2.49%	0.0143	4.40%

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102	Niacin (mg / kg (ppm))	3	3	157.0	78.09	157.0	78.09	45.08	49.75%	11.32	7.47%
103	Pantothenic Acid (mg / kg (ppm))	2	2	29.15	0.7778						
104	Riboflavin (mg / kg (ppm))	7	7	17.48	3.246	17.48	3.681	1.739	21.06%	1.651	10.40%
105	Thiamine (mg / kg (ppm))	3	3	15.77	2.501	15.77	2.501	1.444	15.86%	1.337	10.56%
106	Vitamin A (KU / kg)	16	15	23.14	6.568	23.71	5.932	1.914	25.01%	1.303	
107	Vitamin B12 (µg / kg (ppb))	1	1	165.0							
108	Vitamin D3 (KU / kg)	4	3	4.933	0.5685	4.933	0.5685	0.3282	11.52%	0.6000	
109	Vitamin E (IU / kg)	11	11	410.8	84.32	429.3	37.17	14.01	8.66%	20.16	
111	Vitamin C, Phosphorylated (mg / kg (ppm))	1		20.00							
112	Pyridoxine (µg / g)	2	2	10.82	0.3323						
113	Folic Acid (mg / kg (ppm))	1	1	2.015							
114	Biotin (mg / kg (ppm))	1		10.00							
115	Non Protein N (NPN) (%)	1	1	0.4300							
120	Alanine (%)	26	26	0.6686	0.0452	0.6706	0.0272	0.0067	4.06%	0.0091	4.25%
121	Arginine (%)	27	27	0.9139	0.0587	0.9171	0.0478	0.0115	5.21%	0.0169	4.05%
122	Aspartic (%)	27	26	1.205	0.0712	1.212	0.0463	0.0113	3.82%	0.0150	3.89%
124	Cysteine/Cystine (%)	29	28	0.2785	0.0463	0.2747	0.0364	0.0086	13.26%	0.0081	4.86%
125	Glutamic (%)	27	26	2.359	0.2631	2.401	0.1577	0.0387	6.57%	0.0234	3.51%
126	Glycine (%)	27	27	0.8195	0.0556	0.8245	0.0400	0.0096	4.85%	0.0124	4.12%
127	Histidine (%)	27	27	0.3793	0.0429	0.3783	0.0379	0.0091	10.02%	0.0138	4.63%
128	Isoleucine (%)	27	27	0.4978	0.0453	0.5034	0.0358	0.0086	7.11%	0.0129	4.44%
129	Leucine (%)	27	27	0.9251	0.0631	0.9327	0.0449	0.0108	4.81%	0.0138	4.04%
130	L-Lysine (%)	31	30	0.8563	0.0590	0.8631	0.0478	0.0109	5.54%	0.0110	4.09%
131	Methionine (%)	31	30	0.2601	0.0433	0.2650	0.0319	0.0073	12.03%	0.0064	4.88%
132	Phenylalanine (%)	27	26	0.5869	0.0501	0.5874	0.0316	0.0078	5.39%	0.0113	4.33%
133	Proline (%)	24	24	0.8313	0.0826	0.8291	0.0672	0.0172	8.11%	0.0213	4.11%
134	Serine (%)	27	27	0.6761	0.0584	0.6828	0.0372	0.0090	5.45%	0.0146	4.24%
135	Threonine (%)	30	30	0.5833	0.0412	0.5828	0.0323	0.0074	5.55%	0.0181	4.34%
136	Tryptophan (%)	19	19	0.2021	0.0353	0.2023	0.0385	0.0110	19.04%	0.0092	5.09%
137	Tyrosine (%)	23	23	0.4380	0.0578	0.4349	0.0567	0.0148	13.05%	0.0107	4.53%
138	Valine (%)	27	27	0.6474	0.0622	0.6510	0.0614	0.0148	9.43%	0.0156	4.27%
139	Taurine (%)	5	4	0.1204	0.0518	0.1204	0.0518	0.0259	43.06%	0.0173	5.50%
150	Phytase (Units / kg)	5	5	310.1	78.23	310.1	78.23	34.99	25.23%	33.09	
160	Fructose (%)	3	2	0.1898	0.2054	0.1898	0.2054	0.1452	108.25%	0.0055	5.14%
161	Galactose (%)	1		0.0000							
162	Glucose (%)	3	3	0.1482	0.0903	0.1482	0.0903	0.0522	60.97%	0.0083	5.33%
163	Lactose (%)	3									
164	Maltose (%)	2	1	0.1035							
165	Sucrose (%)	3	3	1.915	0.5080	1.915	0.5080	0.2933	26.53%	0.0913	3.63%
166	Raffinose (%)	3	3	0.7442	0.1243	0.7442	0.1243	0.0718	16.70%	0.0637	4.18%

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167	Stachyose (%)	3	3	0.5472	0.2694	0.5472	0.2694	0.1555	49.23%	0.0357	4.38%
351	Chlortetracycline (mg/kg (ppm))	5	5	9.810	4.729	9.810	4.729	2.115	48.21%	1.046	11.34%
361	Lasalocid Sodium (mg/kg (ppm))	5	4	1.718	0.0862	1.718	0.0862	0.0431	5.02%	0.0233	14.75%
365	Monensin (mg/kg (ppm))	7	6	2.433	2.154	1.667	0.3658	0.1867	21.94%	0.1693	14.81%
373	Oxytetracycline (mg/kg (ppm))	5	5	9.659	4.813	9.659	4.813	2.153	49.83%	0.2754	11.37%
388	Tylosin (mg/kg (ppm))	2	2	0.9050	0.1725						
400	Water Activity (Units)	9	9	0.4432	0.0362	0.4385	0.0290	0.0121	6.61%	0.0039	
412	Starch, Dietary (%)	1	1	11.80							
516	Arsenic, Total (mg / kg (ppm))	10	9	0.1214	0.0360	0.1187	0.0344	0.0143	28.99%	0.0066	22.00%
518	Cadmium (mg / kg (ppm))	11	11	0.1521	0.0446	0.1563	0.0398	0.0150	25.48%	0.0043	21.15%
520	Chromium (mg / kg (ppm))	9	8	15.82	7.661	15.82	8.687	3.839	54.92%	0.5425	10.56%
526	Lead (mg / kg (ppm))	9	9	0.1524	0.0348	0.1495	0.0241	0.0100	16.14%	0.0222	21.29%
529	Mercury (µg / kg (ppb))	1	1	28.61							
539	Nickel (mg / kg (ppm))	4	4	4.845	2.496	4.845	2.496	1.248	51.52%	0.2170	12.62%
702	Butyric Acid (4:0) (%)	1		0.0000							
704	Caproic Acid (6:0) (%)	1		0.0000							
706	Caprylic acid (8:0) (%) (w/w)	1		0.0000							
708	Capric acid (10:0) (%) (w/w)	1		0.0000							
710	Lauric Acid (12:0) (%) (w/w)	4	3	0.0145	0.0209	0.0145	0.0209	0.0120	143.99%	0.0017	
714	Myristic Acid (14:0) (%) (w/w)	3	2	0.0253	0.0244	0.0253	0.0244	0.0172	96.36%	0.0020	
716	Palmitic Acid (16:0) (%) (w/w)	3	3	1.327	0.5668	1.327	0.5668	0.3272	42.70%	0.0479	
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	4	3	0.0223	0.0189	0.0223	0.0189	0.0109	84.99%	0.0010	
722	Stearic Acid (18:0) (%) (w/w)	3	3	0.3267	0.0758	0.3267	0.0758	0.0438	23.21%	0.0119	
724	Oleic Acid (9c-18:1) (%) (w/w)	3	3	2.014	0.7758	2.014	0.7758	0.4479	38.52%	0.0409	
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	4	4	3.876	1.085	3.876	1.085	0.5426	28.00%	0.0413	
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	4	4	0.5987	0.2074	0.5987	0.2074	0.1037	34.65%	0.0128	
730	Arachidic Acid (20:0) (%) (w/w)	3	3	0.0359	0.0179	0.0359	0.0179	0.0104	49.99%	0.0030	
732	Gondoic Acid (11c-20:1) (%) (w/w)	3	3	0.0384	0.0212	0.0384	0.0212	0.0122	55.26%	0.0066	
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (%) (w/w)	3	1								
738	Mead Acid (11c,14c,17c-20:3) (%) (w/w)	1		0.0000							
740	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5) (%) (w/w)	3	1								
742	Behenic Acid (22:0) (%) (w/w)	2	2	0.0271	0.0042						
744	Erucic Acid (13c-22:1) (%) (w/w)	2	1	0.0047							
746	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%) (w/w)	3	1								
748	Lignoceric Acid (24:0) (%) (w/w)	1	1	0.0134							
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%) (w/w)	3	2	0.0020	0.0001	0.0020	0.0001	0.0000	3.59%	0.0001	
752	Nervonic Acid (24:1) isomers (%) (w/w)	2	1	0.0082							
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids (%) (w/w)	4	4	0.7161	0.0933	0.7161	0.0933	0.0467	13.03%	0.0078	
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (%) (w/w)	4	3	4.625	0.4577	4.625	0.4577	0.2642	9.90%	0.0100	
758	Total Saturated Fatty Acids (%) (w/w)	1	1	1.510							

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762	Total Monounsaturated Fatty Acids (% (w/w))	1	1	1.745							
766	Total Polyunsaturated Fatty Acids (% (w/w))	1	1	4.815							
770	Total Fat (equivalent to NLEA) (% (w/w))	2	2	8.185	0.1409						
772	Total Fatty Acids (% (w/w))	1	1	8.455							

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.