

Animal Feed Scheme
Equine Crumbles
Test Material Code # 201890

Analyte Summary Report

Analytes Reported: 112
Labs Reporting: 192
Issue Date : 11/30/2018

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	0.1000							
001	Loss on Drying (%)	81	78	7.179	0.6786	7.266	0.3072	0.0435	4.23%	0.1378	2.97%
002	Protein, Crude (%)	186	184	14.15	0.9018	14.18	0.3046	0.0281	2.15%	0.1178	2.66%
003	Fat, Crude (%)	119	117	1.807	0.3570	1.788	0.2928	0.0338	16.38%	0.1156	3.66%
004	Fiber, Crude (%)	117	114	11.65	1.662	11.57	1.592	0.1864	13.76%	0.3372	2.77%
005	Ash (%)	140	137	20.88	1.042	20.84	0.2733	0.0292	1.31%	0.1330	2.19%
006	Total Sugars (%)	6	5	4.793	1.426	4.793	1.426	0.7974	29.76%	0.2746	3.16%
008	Fiber, Acid Detergent (%)	60	59	14.36	2.036	14.32	2.226	0.3623	15.55%	0.3892	2.64%
009	Fiber, Neutral Detergent (%)	59	58	24.90	2.535	24.85	2.538	0.4165	10.21%	0.4090	2.01%
010	Moisture (%)	22	21	7.737	1.381	7.549	1.030	0.2809	13.64%	0.1667	2.95%
011	Loss on Drying (%)	75	72	8.474	0.5897	8.550	0.4366	0.0643	5.11%	0.1239	2.90%
012	Starch (%)	43	40	12.82	2.674	12.57	1.392	0.2751	11.08%	0.2173	2.73%
013	Fat, Acid Pretreat (%)	40	39	3.304	1.452	3.232	1.194	0.2389	36.93%	0.1263	3.35%
015	Aluminum (mg / kg (ppm))	12	12	582.4	93.83	600.0	63.45	22.90	10.57%	19.79	6.11%
017	Boron (mg / kg (ppm))	17	16	26.33	15.57	25.09	13.55	4.236	54.03%	1.115	9.85%
019	Calcium (%)	141	136	4.078	0.3119	4.087	0.2066	0.0221	5.06%	0.0793	3.24%
021	Cobalt (mg / kg (ppm))	27	27	46.68	5.256	46.68	5.163	1.242	11.06%	1.434	8.97%
022	Copper (mg / kg (ppm))	99	98	870.7	94.94	866.2	58.78	7.422	6.79%	17.40	5.78%
023	Fluorine (mg / kg (ppm))	1	1	159.5							
024	Iodine (mg / kg (ppm))	2	2	24.98	24.08						
025	Iron (mg / kg (ppm))	88	86	9,923	3,100	10,593	1,332	179.6	12.58%	271.2	3.97%
027	Magnesium (%)	100	98	0.4837	0.0427	0.4851	0.0351	0.0044	7.23%	0.0128	4.46%
028	Manganese (mg / kg (ppm))	96	94	276.8	47.52	276.6	22.01	2.838	7.96%	6.875	6.86%
031	Phosphorus (%)	137	134	2.572	0.2370	2.586	0.1817	0.0196	7.03%	0.0512	3.47%
032	Potassium (%)	102	101	1.445	0.1846	1.443	0.0803	0.0100	5.57%	0.0418	3.79%
033	Salt as chloride (%)	71	69	1.826	0.3481	1.919	0.1214	0.0183	6.33%	0.0294	3.63%
034	Selenium (mg / kg (ppm))	28	27	14.00	3.199	14.40	1.907	0.4588	13.24%	0.4013	10.71%
035	Sodium (%)	94	92	0.4332	0.0363	0.4325	0.0290	0.0038	6.71%	0.0128	4.54%
036	Sulfur (%)	36	35	0.9042	0.1020	0.9114	0.0915	0.0193	10.04%	0.0283	4.06%
037	Zinc (mg / kg (ppm))	98	97	3,663	755.5	3,779	316.4	40.16	8.37%	103.5	4.63%
038	Molybdenum (mg / kg (ppm))	21	20	5.453	0.7453	5.438	0.8112	0.2267	14.92%	0.2137	12.40%
040	Barium (mg / kg (ppm))	2	2	36.49	2.136						

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041	Vanadium (mg / kg (ppm))	1	1	12.00							
042	Chloride (%)	1	1	1.200							
099	Menadione (form) (mg / kg (ppm))	1	1	26.30							
101	Choline Chloride (mg / kg (ppm))	2	2	4,419	348.3						
102	Niacin (mg / kg (ppm))	6	6	1,806	813.3	2,003	416.3	212.4	20.78%	69.08	5.09%
103	Pantothenic Acid (mg / kg (ppm))	4	3	286.0	103.6	286.0	103.6	74.75	36.22%	3.867	6.83%
104	Riboflavin (mg / kg (ppm))	11	10	817.9	86.07	831.9	58.45	23.10	7.03%	30.59	5.82%
105	Thiamine (mg / kg (ppm))	9	9	332.2	44.55	332.2	50.52	21.05	15.21%	32.16	6.68%
106	Vitamin A (KU / kg)	22	22	105.7	86.65	81.17	12.36	3.295	15.23%	5.083	
107	Vitamin B12 (µg / kg (ppb))	1	1	1,070							
108	Vitamin D3 (KU / kg)	7	7	76.39	137.7	28.81	17.29	8.169	60.02%	0.7200	
109	Vitamin E (IU / kg)	17	17	1,651	325.6	1,636	335.3	101.7	20.50%	72.68	
112	Pyridoxine (µg / g)	8	8	248.6	17.31	248.6	19.63	8.675	7.90%	16.79	
113	Folic Acid (mg / kg (ppm))	3	3	67.22	77.85	67.22	77.85	56.19	115.83%	2.170	8.49%
114	Biotin (mg / kg (ppm))	1	1	0.7720							
118	Peroxide value (meq/kg)	1	1	2.105							
120	Alanine (%)	30	29	0.6115	0.0433	0.6118	0.0370	0.0086	6.05%	0.0071	4.31%
121	Arginine (%)	30	30	0.7336	0.0704	0.7306	0.0439	0.0100	6.01%	0.0141	4.19%
122	Aspartic (%)	30	29	1.173	0.0891	1.165	0.0397	0.0092	3.41%	0.0146	3.91%
124	Cysteine/Cystine (%)	31	30	0.2082	0.0490	0.2079	0.0262	0.0060	12.62%	0.0057	5.07%
125	Glutamic (%)	30	29	2.019	0.1241	2.026	0.0873	0.0203	4.31%	0.0178	3.60%
126	Glycine (%)	30	30	0.6451	0.0383	0.6459	0.0302	0.0069	4.68%	0.0100	4.27%
127	Histidine (%)	30	29	0.2799	0.0481	0.2827	0.0176	0.0041	6.21%	0.0056	4.84%
128	Isoleucine (%)	30	29	0.4286	0.0483	0.4339	0.0370	0.0086	8.52%	0.0098	4.54%
129	Leucine (%)	30	29	0.8192	0.0449	0.8200	0.0384	0.0089	4.68%	0.0105	4.12%
130	L-Lysine (%)	35	34	0.6995	0.0626	0.6970	0.0328	0.0070	4.70%	0.0108	4.22%
131	Methionine (%)	37	36	0.1546	0.0312	0.1581	0.0215	0.0045	13.61%	0.0060	5.28%
132	Phenylalanine (%)	30	30	0.5383	0.0486	0.5331	0.0265	0.0061	4.98%	0.0099	4.40%
133	Proline (%)	29	28	0.8453	0.1150	0.8327	0.0636	0.0150	7.64%	0.0171	4.11%
134	Serine (%)	30	29	0.5598	0.0414	0.5582	0.0295	0.0068	5.28%	0.0107	4.37%
135	Threonine (%)	30	29	0.4536	0.0345	0.4567	0.0253	0.0059	5.54%	0.0075	4.50%
136	Tryptophan (%)	19	19	0.1733	0.0483	0.1654	0.0252	0.0072	15.21%	0.0039	5.24%
137	Tyrosine (%)	23	23	0.3565	0.0783	0.3677	0.0570	0.0149	15.51%	0.0080	4.65%
138	Valine (%)	30	29	0.5839	0.0601	0.5933	0.0421	0.0098	7.10%	0.0116	4.33%
139	Taurine (%)	4	3	0.0795	0.0943	0.0795	0.0943	0.0680	118.59%	0.0037	5.85%
160	Fructose (%)	4	4	0.4201	0.2478	0.4201	0.2478	0.1548	58.97%	0.0483	4.56%
162	Glucose (%)	4	3	0.2325	0.0847	0.2325	0.0847	0.0611	36.42%	0.0343	4.98%
163	Lactose (%)	4	1								
164	Maltose (%)	3	2	0.2550	0.1344	0.2550	0.1344	0.1187	52.69%	0.0500	4.91%
165	Sucrose (%)	4	4	1.853	0.2638	1.853	0.2638	0.1649	14.24%	0.1000	3.65%

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166	Raffinose (%)	2	2	0.4643	0.0343						
167	Stachyose (%)	2	2	0.2048	0.0986						
400	Water Activity (Units)	9	9	0.4846	0.0269	0.4844	0.0302	0.0126	6.23%	0.0039	
412	Starch, Dietary (%)	1	1	11.59							
516	Arsenic, Total (mg / kg (ppm))	9	8	1.200	0.1476	1.208	0.0958	0.0424	7.93%	0.0621	15.55%
518	Cadmium (mg / kg (ppm))	9	9	0.8028	0.2305	0.7792	0.1073	0.0447	13.77%	0.0552	16.61%
520	Chromium (mg / kg (ppm))	10	10	29.12	5.321	29.12	6.034	2.385	20.72%	0.9824	9.63%
526	Lead (mg / kg (ppm))	8	7	2.212	0.1344	2.201	0.1282	0.0606	5.82%	0.1173	14.21%
529	Mercury (µg / kg (ppb))	1	1	19.00							
539	Nickel (mg / kg (ppm))	5	5	12.23	3.455	12.23	3.455	1.932	28.26%	0.9231	10.97%
702	Butyric Acid (4:0) (%)	1	1	0.0055							
704	Caproic Acid (6:0) (%)	1	1	0.0440							
706	Caprylic acid (8:0) (%) (w/w)	1	1	0.0050							
708	Capric acid (10:0) (%) (w/w)	1		0.0005							
710	Lauric Acid (12:0) (%) (w/w)	4	3	0.0138	0.0160	0.0138	0.0160	0.0115	115.70%	0.0098	
714	Myristic Acid (14:0) (%) (w/w)	3	2	0.0212	0.0216	0.0212	0.0216	0.0191	101.74%	0.0157	
716	Palmitic Acid (16:0) (%) (w/w)	3	3	0.5231	0.0834	0.5231	0.0834	0.0602	15.94%	0.0638	
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	4	2	0.0095	0.0035	0.0095	0.0035	0.0031	37.26%	0.0024	
722	Stearic Acid (18:0) (%) (w/w)	2	2	0.0537	0.0061						
724	Oleic Acid (9c-18:1) (%) (w/w)	3	3	0.3992	0.1061	0.3992	0.1061	0.0766	26.58%	0.0328	
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	5	5	0.4824	0.0515	0.4824	0.0515	0.0288	10.66%	0.0331	
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	4	3	0.0557	0.0065	0.0557	0.0065	0.0047	11.58%	0.0044	
730	Arachidic Acid (20:0) (%) (w/w)	2	2	0.0267	0.0224						
732	Gondoic Acid (11c-20:1) (%) (w/w)	2	2	0.0242	0.0188						
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (%) (w/w)	2	1	0.0120							
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)	2		0.0000							
742	Behenic Acid (22:0) (%) (w/w)	2	1	0.0123							
744	Erucic Acid (13c-22:1) (%) (w/w)	2		0.0000							
746	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%) (w/w)	2		0.0000							
748	Lignoceric Acid (24:0) (%) (w/w)	1	1	0.0113							
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%) (w/w)	2		0.0000							
752	Nervonic Acid (24:1) isomers (%) (w/w)	2		0.0000							
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids (%) (w/w)	3	3	0.0617	0.0029	0.0617	0.0029	0.0021	4.69%	0.0033	
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (%) (w/w)	3	3	0.4717	0.0448	0.4717	0.0448	0.0323	9.50%	0.0233	
758	Total Saturated Fatty Acids (%) (w/w)	1	1	0.7800							
762	Total Monounsaturated Fatty Acids (%) (w/w)	1	1	0.5100							
766	Total Polyunsaturated Fatty Acids (%) (w/w)	1	1	0.5750							
770	Total Fat (equivalent to NLEA) (%) (w/w)	1	1	2.025							
772	Total Fatty Acids (%) (w/w)	2	2	1.648	0.4060						

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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.