



AAFCO
Proficiency Testing Program



Animal Feed Scheme

Equine Feed

Test Material Code # 201727

Analyte Summary Report

Analytes Reported: 114

Labs Reporting: 199

Issue Date : 08/31/2017

Analyte Group Code	Analyte and Method	Total # Tests Submitted	# Tests in Robust Calcs	Raw Mean	Raw SD	Assigned Value - Robust Mean	AAFCO PT ffp - Robust sd	Uncertainty (U) Robust	% RSD - Robust	Average Range (R-bar)	Horwitz %RSD
000	Urea (%)	1	1	0.60000							
001	Loss on Drying (%)	79	77	9.2335	0.44283	9.2435	0.31313	0.04461	3.39%	0.12800	2.86%
002	Protein (%)	192	188	17.473	0.43296	17.471	0.32719	0.02983	1.87%	0.13679	2.39%
003	Fat (%)	147	143	8.1368	0.62080	8.2274	0.30976	0.03238	3.76%	0.10858	2.91%
004	Fiber (%)	119	118	14.435	1.3537	14.539	0.78537	0.09037	5.40%	0.27285	2.62%
005	Ash (%)	142	137	7.9183	0.63605	7.8646	0.24849	0.02654	3.16%	0.07115	2.93%
006	Total sugars (%)	3	3	4.1762	0.26505	4.1762	0.26505	0.15303	6.35%	0.55500	3.23%
008	Fiber (%)	65	63	18.683	1.5405	18.729	1.1176	0.17600	5.97%	0.30209	2.31%
009	Fiber (%)	59	59	34.231	1.7933	34.101	1.7219	0.28022	5.05%	0.45115	1.71%
010	Moisture (%)	28	27	9.5668	0.56429	9.5229	0.50875	0.12239	5.34%	0.10693	2.85%
011	Loss on Drying (%)	74	73	10.054	0.59173	10.113	0.43282	0.06332	4.28%	0.13475	2.82%
012	Starch (%)	33	32	11.445	3.9722	10.846	1.8698	0.41317	17.24%	0.32987	2.79%
013	Fat (%)	52	51	9.3826	0.93035	9.4226	0.81942	0.14343	8.70%	0.17266	2.85%
015	Aluminum (mg / kg (ppm))	12	12	127.78	30.747	130.12	29.092	10.498	22.36%	11.904	7.69%
017	Boron (mg / kg (ppm))	12	12	14.836	2.7082	15.156	2.2067	0.79629	14.56%	0.63807	10.63%
019	Calcium (%)	142	140	1.1679	0.07769	1.1614	0.05729	0.00605	4.93%	0.02607	3.91%
021	Cobalt (mg / kg (ppm))	19	18	10.115	3.0778	10.094	3.4456	1.0152	34.13%	0.45037	11.30%
022	Copper (mg / kg (ppm))	99	98	89.692	10.383	90.566	8.1925	1.0345	9.05%	3.2498	8.12%
023	Fluorine (mg / kg (ppm))	1	1	9.2000							
024	Iodine (mg / kg (ppm))	2	2	4.3925	0.55508						
025	Iron (mg / kg (ppm))	92	91	592.04	106.78	609.50	58.795	7.7043	9.65%	19.567	6.09%
027	Magnesium (%)	101	100	0.32822	0.01963	0.32772	0.01721	0.00215	5.25%	0.00888	4.73%
028	Manganese (mg / kg (ppm))	95	94	184.71	12.546	185.05	10.251	1.3216	5.54%	4.0735	7.29%
031	Phosphorus (%)	133	132	0.75186	0.03421	0.75256	0.03008	0.00327	4.00%	0.01439	4.17%
032	Potassium (%)	100	99	1.1899	0.06504	1.1892	0.06152	0.00773	5.17%	0.02686	3.90%
033	Salt as chloride (%)	71	69	0.82525	0.09031	0.82291	0.05505	0.00828	6.69%	0.01342	4.12%
034	Selenium (mg / kg (ppm))	19	18	0.83128	0.49144	0.71264	0.20532	0.06049	28.81%	0.10067	16.83%
035	Sodium (%)	100	98	0.36965	0.02656	0.36752	0.02061	0.00260	5.61%	0.00885	4.65%
036	Sulfur (%)	38	37	0.32182	0.02576	0.31984	0.02138	0.00439	6.69%	0.01038	4.75%
037	Zinc (mg / kg (ppm))	96	95	252.87	21.738	253.37	16.548	2.1223	6.53%	6.3856	6.95%

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038	Molybdenum (mg / kg (ppm))	17	17	4.4679	0.82950	4.4584	0.92040	0.27904	20.64%	0.21638	12.77%
040	Barium (mg / kg (ppm))	2	2	11.621	0.50837						
041	Vanadium (mg / kg (ppm))	1	1	0.66350							
042	Chloride (%)	3	3	0.58000	0.06764	0.58000	0.06764	0.03905	11.66%	0.01333	4.34%
101	Choline Chloride (mg / kg (ppm))	3	3	1,170.8	327.42	1,170.8	327.42	189.04	27.97%	27.667	5.52%
102	Niacin (mg / kg (ppm))	1	1	238.50							
103	Pantothenic Acid (mg / kg (ppm))	2	2	224.05	282.06						
104	Riboflavin (mg / kg (ppm))	4	4	14.114	3.1926	14.114	3.1926	1.5963	22.62%	1.5375	10.74%
105	Thiamine (mg / kg (ppm))	4	4	18.950	5.2802	18.950	5.2802	2.6401	27.86%	1.4078	10.27%
106	Vitamin A (KU / kg)	20	19	37.690	9.7928	38.863	7.1674	2.0554	18.44%	2.8389	
107	Vitamin B12 (µg / kg (ppb))	1	1	266.50							
108	Vitamin D3 (KU / kg)	6	5	37.894	79.441	2.3675	0.42175	0.23577	17.81%	1.6840	
109	Vitamin E (IU/kg)	19	18	706.35	123.75	707.40	92.977	27.393	13.14%	16.940	
111	Vitamin C, phosphorylated (mg / kg (ppm))	3	3	108.73	24.517	108.73	24.517	14.155	22.55%	10.547	7.90%
112	Pyridoxine (µg / g)	1	1	21.300							
113	Folic Acid (mg / kg (ppm))	1	1	3.4700							
114	Biotin (mg / kg (ppm))	2	2	3.0925	0.47730						
120	Alanine (%)	26	26	0.76321	0.04480	0.76610	0.02281	0.00559	2.98%	0.01127	4.16%
121	Arginine (%)	24	24	1.0214	0.04523	1.0229	0.03486	0.00890	3.41%	0.01950	3.99%
122	Aspartic (%)	26	25	1.4522	0.11914	1.4685	0.03073	0.00768	2.09%	0.01956	3.77%
124	Cysteine/Cystine (%)	25	25	0.28570	0.01900	0.28564	0.01865	0.00466	6.53%	0.00726	4.83%
125	Glutamic (%)	26	26	2.5841	0.21788	2.6120	0.05903	0.01447	2.26%	0.04528	3.46%
126	Glycine (%)	26	25	0.86531	0.05416	0.87338	0.02058	0.00515	2.36%	0.01002	4.08%
127	Histidine (%)	25	24	0.41498	0.03035	0.41192	0.02133	0.00544	5.18%	0.00870	4.57%
128	Isoleucine (%)	26	25	0.59965	0.03947	0.60158	0.03089	0.00772	5.13%	0.01107	4.32%
129	Leucine (%)	26	26	1.1040	0.04345	1.1035	0.03190	0.00782	2.89%	0.01654	3.94%
130	L-Lysine (%)	30	29	1.1285	0.06228	1.1262	0.06443	0.01496	5.72%	0.02141	3.93%
131	Methionine (%)	28	28	0.38261	0.04101	0.38391	0.01993	0.00471	5.19%	0.00714	4.62%
132	Phenylalanine (%)	25	24	0.69752	0.03336	0.69740	0.02962	0.00756	4.25%	0.01325	4.22%
133	Proline (%)	24	23	0.91136	0.06123	0.90167	0.04147	0.01081	4.60%	0.01450	4.06%
134	Serine (%)	26	26	0.75748	0.07323	0.76823	0.04918	0.01206	6.40%	0.01417	4.16%
135	Threonine (%)	28	27	0.79000	0.04057	0.78450	0.02387	0.00574	3.04%	0.01336	4.15%
136	Tryptophan (%)	16	16	0.23762	0.04231	0.23337	0.02536	0.00792	10.87%	0.01345	4.98%
137	Tyrosine (%)	20	20	0.51168	0.08801	0.49884	0.04621	0.01292	9.26%	0.01290	4.44%
138	Valine (%)	26	26	0.75357	0.04164	0.75480	0.03283	0.00805	4.35%	0.01987	4.17%
139	Taurine (%)	3	1								
150	Phytase (Units / kg)	2	2	539.00	37.477						
160	Fructose (%)	6	5	0.52418	0.20942	0.52418	0.20942	0.11707	39.95%	0.04920	4.41%

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161	Galactose (%)	1		0.00000							
162	Glucose (%)	6	3	0.20283	0.05081	0.20283	0.05081	0.03667	25.05%	0.00567	5.09%
163	Lactose (%)	5									
164	Maltose (%)	6	2	0.81250	0.47730	0.81250	0.47730	0.42188	58.74%	0.07500	4.13%
165	Sucrose (%)	8	8	1.8701	0.19057	1.8655	0.20560	0.09086	11.02%	0.07350	3.64%
166	Raffinose (%)	3	3	0.92150	0.49087	0.92150	0.49087	0.28340	53.27%	0.01100	4.05%
167	Stachyose (%)	3	3	0.87167	0.23740	0.87167	0.23740	0.13706	27.24%	0.02667	4.08%
315	Diclazuril (mg/kg (ppm))	2	2	0.01158	0.00011						
351	Chlortetracycline (mg/kg (ppm))	3	3	3.6276	3.3666	3.6276	3.3666	1.9437	92.81%	0.34170	13.18%
357	Ethoxyquin (mg/kg (ppm))	2	2	14.500	0.70711						
361	Lasalocid sodium (mg/kg (ppm))	11	9	1.5514	0.52592	1.5111	0.49965	0.20819	33.06%	0.13859	15.03%
365	Monensin (mg/kg (ppm))	16	16	2.9423	0.68424	3.0056	0.48596	0.15186	16.17%	0.24579	13.56%
388	Tylosin (mg/kg (ppm))	1	1	0.60500							
400	Water activity (Units)	8	8	0.58345	0.01648	0.58356	0.01843	0.00815	3.16%	0.00453	
412	Dietary Starch (%)	1	1	9.4150							
516	Arsenic, total (mg / kg (ppm))	8	8	0.12062	0.04365	0.12062	0.04950	0.02188	41.04%	0.00954	21.99%
518	Cadmium (mg / kg (ppm))	9	9	0.13824	0.02696	0.13824	0.03057	0.01274	22.11%	0.00403	21.55%
520	Chromium (mg / kg (ppm))	9	9	15.548	7.4307	15.548	8.4264	3.5110	54.19%	1.2092	10.58%
526	Lead (mg / kg (ppm))	8	8	0.16515	0.04724	0.17559	0.02470	0.01092	14.07%	0.01255	20.78%
539	Nickel (mg / kg (ppm))	5	5	8.0067	4.3638	8.0067	4.3638	1.9516	54.50%	0.53306	11.70%
702	Butyric Acid (4:0) (%)	1	1	0.01200							
704	Caproic Acid (6:0) (%)	1	1	0.00800							
706	Caprylic acid (8:0) (%) (w/w)	1		0.00000							
708	Capric acid (10:0) (%) (w/w)	1		0.00000							
710	Lauric Acid (12:0) (%) (w/w)	3	1								
714	Myristic Acid (14:0) (%) (w/w)	2	2	0.01650	0.01131						
716	Palmitic Acid (16:0) (%) (w/w)	2	2	0.77225	0.22663						
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	3	2	0.01150	0.00141	0.01150	0.00141	0.00100	12.26%	0.00100	
722	Stearic Acid (18:0) (%) (w/w)	2	2	0.19350	0.08627						
724	Oleic Acid (9c-18:1) (%) (w/w)	2	2	1.5705	0.13506						
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	3	3	4.1378	0.42214	4.1378	0.42214	0.24372	10.20%	0.04833	
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	3	3	1.1410	0.22827	1.1410	0.22827	0.13179	20.01%	0.02000	
730	Arachidic Acid (20:0) (%) (w/w)	2	2	0.03325	0.00672						
732	Gondoic Acid (11c-20:1) (%) (w/w)	2	2	0.03100	0.01273						
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)	3	1								
742	Behenic Acid (22:0) (%) (w/w)	1	1	0.02400							

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744	Erucic Acid (13c-22:1) (% (w/w))	2		0.00000							
746	Docosapentaenoic Acid n-3 DPA (DHA)7c,10c,13c	3									
748	Lignoceric Acid (24:0) (% (w/w))	1	1	0.01750							
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c)	3									
752	Nervonic Acid (24:1) isomers (% (w/w))	2		0.00000							
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids	5	5	1.1708	0.18577	1.1708	0.18577	0.08308	15.87%	0.07800	
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids	5	5	4.1883	0.32235	4.1883	0.32235	0.14416	7.70%	0.18020	
772	Total Fatty Acids (% (w/w))	1	1	7.7905							

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.