



AAFCO
Proficiency Testing Program



Animal Feed Scheme
Alfalfa Pellets
Test Material Code # 201925

Analyte Summary Report

Labs Reporting: 190
Analytes Reported: 102
Issue Date : 06/30/2019

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 (%)	1	1	0.6000							
001	Loss on Drying (%)	85	84	7.784	0.3575	7.795	0.2775	0.0378	3.56%	0.1072	2.94%
002	Protein, Crude (%)	189	185	17.68	0.7633	17.63	0.4624	0.0425	2.62%	0.1950	2.38%
003	Fat, Crude (%)	146	143	1.273	0.3650	1.256	0.3324	0.0347	26.47%	0.0868	3.87%
004	Fiber, Crude (%)	133	128	29.31	2.304	29.43	1.479	0.1634	5.02%	0.4738	1.84%
005	Ash (%)	154	151	11.18	0.3287	11.20	0.2469	0.0251	2.20%	0.1196	2.78%
006	Total Sugars (%)	11	10	3.620	2.645	3.165	1.724	0.6814	54.45%	0.3127	3.36%
008	Fiber, Acid Detergent (%)	67	65	36.96	2.504	37.09	2.418	0.3749	6.52%	0.5525	1.64%
009	Fiber, Neutral Detergent (%)	65	64	46.85	3.021	46.93	2.566	0.4010	5.47%	0.8523	1.46%
010	Moisture (%)	20	19	7.892	0.8606	7.849	0.7488	0.2147	9.54%	0.0530	2.93%
011	Loss on Drying (%)	73	72	8.722	0.4958	8.742	0.4505	0.0664	5.15%	0.1193	2.89%
012	Starch (%)	34	33	2.016	0.8555	1.989	0.8999	0.1958	45.25%	0.1406	3.61%
013	Fat, Acid Pretreat (%)	48	48	2.595	0.8307	2.529	0.7776	0.1403	30.74%	0.1651	3.48%
015	Aluminum (mg / kg (ppm))	15	15	988.3	212.9	1,020	158.8	51.26	15.58%	31.48	5.64%
017	Boron (mg / kg (ppm))	18	17	36.57	2.787	36.45	2.540	0.7701	6.97%	1.194	9.31%
019	Calcium (%)	151	148	1.251	0.1008	1.244	0.0799	0.0082	6.42%	0.0301	3.87%
021	Cobalt (mg / kg (ppm))	20	20	8.895	3.150	8.895	3.572	0.9983	40.16%	0.5233	11.51%
022	Copper (mg / kg (ppm))	95	92	10.09	1.876	9.930	1.102	0.1436	11.10%	0.5663	11.32%
025	Iron (mg / kg (ppm))	92	90	955.4	126.6	966.0	94.90	12.50	9.82%	22.50	5.69%
027	Magnesium (%)	105	104	0.3376	0.0449	0.3344	0.0210	0.0026	6.27%	0.0085	4.72%
028	Manganese (mg / kg (ppm))	97	95	71.32	8.413	71.95	5.305	0.6804	7.37%	1.901	8.41%
031	Phosphorus (%)	141	138	0.2211	0.0281	0.2181	0.0152	0.0016	6.96%	0.0081	5.03%
032	Potassium (%)	104	102	2.384	0.2175	2.399	0.1374	0.0170	5.73%	0.0517	3.51%
033	Salt as chloride (%)	52	51	0.5116	0.1099	0.5289	0.0409	0.0072	7.73%	0.0140	4.40%
034	Selenium (mg / kg (ppm))	24	23	0.8522	0.4270	0.8038	0.1980	0.0516	24.63%	0.0565	16.53%
035	Sodium (%)	89	88	0.0447	0.0463	0.0349	0.0181	0.0024	51.66%	0.0048	6.63%
036	Sulfur (%)	51	50	0.2707	0.0221	0.2705	0.0210	0.0037	7.78%	0.0104	4.87%
037	Zinc (mg / kg (ppm))	97	95	33.44	43.58	29.02	4.132	0.5299	14.24%	1.465	9.64%
038	Molybdenum (mg / kg (ppm))	20	19	2.904	0.4727	2.932	0.4558	0.1307	15.54%	0.1375	13.61%
040	Barium (mg / kg (ppm))	3	3	57.61	2.402	57.61	2.402	1.387	4.17%	6.644	8.69%

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041	Vanadium (mg / kg (ppm))	2	2	2.895	0.0212						
042	Chloride (%)	1	1	0.3190							
100	Carotene (mg / kg (ppm))	1	1	0.9750							
102	Niacin (mg / kg (ppm))	1	1	34.40							
103	Pantothenic Acid (mg / kg (ppm))	1	1	19.05							
104	Riboflavin (mg / kg (ppm))	1	1	3.285							
105	Thiamine (mg / kg (ppm))	1	1	1.235							
106	Vitamin A (KU / kg)	3	1								
107	Vitamin B12 (µg / kg (ppb))	1	1	45.20							
108	Vitamin D3 (KU / kg)	2	1	33.23							
109	Vitamin E (IU / kg)	4	3	13.19	7.618	13.19	7.618	4.398	57.74%	0.4333	
110	Xanthophyll (mg / kg (ppm))	1	1	7.600							
113	Folic Acid (mg / kg (ppm))	1	1	1.390							
114	Biotin (mg / kg (ppm))	1	1	0.3785							
120	Alanine (%)	34	34	0.8014	0.0900	0.8103	0.0561	0.0120	6.93%	0.0194	4.13%
121	Arginine (%)	35	34	0.6568	0.0707	0.6562	0.0563	0.0121	8.59%	0.0212	4.26%
122	Aspartic (%)	34	34	1.790	0.1605	1.799	0.0915	0.0196	5.08%	0.0419	3.66%
124	Cysteine/Cystine (%)	34	33	0.1965	0.0532	0.1934	0.0397	0.0086	20.53%	0.0069	5.12%
125	Glutamic (%)	34	33	1.550	0.2408	1.510	0.1179	0.0257	7.81%	0.0341	3.76%
126	Glycine (%)	34	34	0.7676	0.0817	0.7683	0.0483	0.0104	6.29%	0.0204	4.16%
127	Histidine (%)	35	34	0.2573	0.0911	0.2371	0.0276	0.0059	11.63%	0.0093	4.97%
128	Isoleucine (%)	35	34	0.6527	0.0729	0.6525	0.0703	0.0151	10.77%	0.0187	4.27%
129	Leucine (%)	35	33	1.101	0.0812	1.102	0.0801	0.0174	7.26%	0.0259	3.94%
130	L-Lysine (%)	37	35	0.7271	0.0819	0.7309	0.0511	0.0108	6.99%	0.0142	4.19%
131	Methionine (%)	35	34	0.2119	0.0441	0.2172	0.0256	0.0055	11.78%	0.0082	5.03%
132	Phenylalanine (%)	35	34	0.7461	0.0733	0.7437	0.0594	0.0127	7.98%	0.0161	4.18%
133	Proline (%)	33	32	0.9329	0.0788	0.9310	0.0575	0.0127	6.17%	0.0204	4.04%
134	Serine (%)	34	33	0.7292	0.1042	0.7168	0.0649	0.0141	9.06%	0.0184	4.21%
135	Threonine (%)	36	36	0.6825	0.0597	0.6821	0.0465	0.0097	6.82%	0.0190	4.24%
136	Tryptophan (%)	26	25	0.2017	0.0962	0.1874	0.0289	0.0072	15.42%	0.0096	5.15%
137	Tyrosine (%)	29	28	0.4603	0.0667	0.4627	0.0433	0.0102	9.35%	0.0164	4.49%
138	Valine (%)	35	34	0.8396	0.0773	0.8483	0.0618	0.0133	7.29%	0.0211	4.10%
139	Taurine (%)	4	3	0.0630	0.0672	0.0630	0.0672	0.0388	106.63%	0.0167	6.06%
160	Fructose (%)	4	4	0.8473	0.4791	0.8473	0.4791	0.2395	56.55%	0.0320	4.10%
162	Glucose (%)	4	4	0.3958	0.1503	0.3958	0.1503	0.0751	37.97%	0.0505	4.60%
163	Lactose (%)	3									
164	Maltose (%)	2		0.0000							
165	Sucrose (%)	4	4	0.5351	0.2371	0.5351	0.2371	0.1185	44.30%	0.0238	4.39%
166	Raffinose (%)	1		0.0500							
167	Stachyose (%)	1		0.0500							

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400	Water Activity (Units)	10	10	0.4703	0.0243	0.4666	0.0177	0.0070	3.78%	0.0018	
412	Starch, Dietary (%)	1	1	1.330							
516	Arsenic, Total (mg / kg (ppm))	12	12	0.5118	0.1297	0.5037	0.1036	0.0374	20.57%	0.0303	17.74%
518	Cadmium (mg / kg (ppm))	12	12	0.1130	0.0162	0.1098	0.0084	0.0030	7.64%	0.0077	22.00%
520	Chromium (mg / kg (ppm))	13	12	20.72	6.939	20.85	7.573	2.733	36.31%	0.8733	10.13%
526	Lead (mg / kg (ppm))	12	11	5.662	0.5529	5.676	0.5961	0.2247	10.50%	0.2878	12.32%
529	Mercury (µg / kg (ppb))	2	2	8.199	11.57						
539	Nickel (mg / kg (ppm))	7	7	8.582	3.371	8.582	3.823	1.806	44.54%	0.4424	11.58%
710	Lauric Acid (12:0) (% (w/w))	2	1	0.0100							
714	Myristic Acid (14:0) (% (w/w))	2	1	0.0095							
716	Palmitic Acid (16:0) (% (w/w))	2	2	0.3375	0.0672						
718	Palmitoleic Acid (9c-16:1) (% (w/w))	2	1	0.0330							
722	Stearic Acid (18:0) (% (w/w))	2	2	0.0653	0.0067						
724	Oleic Acid (9c-18:1) (% (w/w))	2	2	0.0728	0.0244						
726	Linoleic Acid (9c,12c-18:2) (% (w/w))	2	2	0.1583	0.0237						
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (% (w/w))	2	2	0.1623	0.0251						
730	Arachidic Acid (20:0) (% (w/w))	2	1	0.0165							
732	Gondoic Acid (11c-20:1) (% (w/w))	2		0.0050							
740	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5) (% (w/w))	1		0.0050							
742	Behenic Acid (22:0) (% (w/w))	2	2	0.0215	0.0021						
744	Erucic Acid (13c-22:1) (% (w/w))	1		0.0050							
746	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%)	1		0.0050							
748	Lignoceric Acid (24:0) (% (w/w))	1	1	0.0275							
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%)	1		0.0050							
752	Nervonic Acid (24:1) isomers (% (w/w))	1		0.0050							
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids (% (w/w))	1	1	0.1850							
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (% (w/w))	1	1	0.1850							
758	Total Saturated Fatty Acids (% (w/w))	1	1	0.5600							
762	Total Monounsaturated Fatty Acids (% (w/w))	1	1	0.1600							
766	Total Polyunsaturated Fatty Acids (% (w/w))	1	1	0.3750							
770	Total Fat (equivalent to NLEA) (% (w/w))	1	1	1.175							
772	Total Fatty Acids (% (w/w))	2	2	0.9630	0.2150						

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.