



AAFCO
Proficiency Testing Program



Animal Feed Scheme
Beef Mineral
Test Material Code # 201995

Analyte Summary Report

Labs Reporting: 173
Analytes Reported: 97
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	0.1000							
001	Loss on Drying (%)	69	66	3.357	0.4396	3.310	0.3373	0.0519	10.19%	0.1170	3.34%
002	Protein, Crude (%)	75	73	5.308	5.022	4.440	0.2384	0.0349	5.37%	0.1287	3.20%
003	Fat, Crude (%)	47	46	1.528	0.5328	1.474	0.4067	0.0750	27.59%	0.1079	3.77%
004	Fiber, Crude (%)	32	31	2.758	1.159	2.646	0.9971	0.2239	37.68%	0.1647	3.45%
005	Ash (%)	124	121	65.81	1.740	65.87	1.220	0.1386	1.85%	0.3521	1.23%
006	Total Sugars (%)	2	2	1.270	0.0283						
008	Fiber, Acid Detergent (%)	16	15	3.076	0.6904	3.044	0.7143	0.2305	23.46%	0.1639	3.38%
009	Fiber, Neutral Detergent (%)	16	15	7.794	1.573	7.561	1.057	0.3412	13.98%	0.2401	2.95%
010	Moisture (%)	14	13	4.067	1.641	3.690	0.9083	0.3149	24.62%	0.1300	3.29%
011	Loss on Drying (%)	61	60	5.103	0.7501	5.183	0.5733	0.0925	11.06%	0.1529	3.12%
012	Starch (%)	12	10	2.428	1.266	2.281	1.057	0.4177	46.34%	0.1712	3.53%
013	Fat, Acid Pretreat (%)	23	22	2.462	0.6634	2.433	0.6842	0.1823	28.12%	0.1410	3.50%
015	Aluminum (mg / kg (ppm))	15	15	1,357	130.3	1,356	128.1	41.35	9.45%	54.65	5.40%
017	Boron (mg / kg (ppm))	15	13	16.22	8.439	16.22	9.570	3.318	59.00%	1.627	10.52%
019	Calcium (%)	130	126	13.87	1.405	13.76	0.9834	0.1095	7.15%	0.2219	2.70%
021	Cobalt (mg / kg (ppm))	36	35	31.93	6.808	32.36	6.211	1.312	19.20%	1.275	9.48%
022	Copper (mg / kg (ppm))	101	100	1,429	97.20	1,429	95.45	11.93	6.68%	44.80	5.36%
024	Iodine (mg / kg (ppm))	1	1	113.0							
025	Iron (mg / kg (ppm))	85	84	4,419	658.5	4,515	384.2	52.39	8.51%	112.3	4.51%
027	Magnesium (%)	103	101	1.817	0.1872	1.818	0.1347	0.0168	7.41%	0.0620	3.66%
028	Manganese (mg / kg (ppm))	95	93	2,958	281.8	2,954	249.9	32.39	8.46%	82.17	4.81%
031	Phosphorus (%)	130	127	4.918	0.5854	4.979	0.3225	0.0358	6.48%	0.1071	3.14%
032	Potassium (%)	97	96	1.957	0.2373	1.940	0.1493	0.0190	7.70%	0.0572	3.62%
033	Salt as chloride (%)	65	64	20.57	4.437	21.55	1.163	0.1818	5.40%	0.2348	2.15%
034	Selenium (mg / kg (ppm))	35	35	23.21	3.009	23.32	2.905	0.6138	12.46%	1.076	9.96%
035	Sodium (%)	91	90	7.588	0.7909	7.631	0.5385	0.0710	7.06%	0.2201	2.95%
036	Sulfur (%)	49	48	0.9001	0.1045	0.8925	0.0923	0.0167	10.35%	0.0316	4.07%
037	Zinc (mg / kg (ppm))	101	98	3,555	317.0	3,560	276.3	34.89	7.76%	91.42	4.67%
038	Molybdenum (mg / kg (ppm))	20	20	10.38	1.914	10.65	1.491	0.4168	14.01%	0.5274	11.21%

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040	Barium (mg / kg (ppm))	3	3	7.196	0.8406	7.196	0.8406	0.4853	11.68%	1.597	11.89%
041	Vanadium (mg / kg (ppm))	4	4	22.81	2.191	22.81	2.191	1.096	9.61%	1.095	9.99%
042	Chloride (%)	7	6	13.61	0.3570	13.61	0.4048	0.2066	2.97%	0.1878	2.70%
101	Choline Chloride (mg / kg (ppm))	2	2	1,831	688.4						
102	Niacin (mg / kg (ppm))	3	3	139.4	16.79	139.4	16.79	9.691	12.04%	10.13	7.61%
103	Pantothenic Acid (mg / kg (ppm))	3	3	73.25	13.76	73.25	13.76	7.945	18.79%	4.583	8.38%
104	Riboflavin (mg / kg (ppm))	3	3	28.31	1.219	28.31	1.219	0.7040	4.31%	1.807	9.67%
106	Vitamin A (KU / kg)	20	20	426.1	98.86	436.0	88.10	24.62	20.21%	29.79	
107	Vitamin B12 (µg / kg (ppb))	1	1	77.25							
108	Vitamin D3 (KU / kg)	8	7	65.42	24.45	71.12	12.48	5.897	17.55%	3.081	
109	Vitamin E (IU / kg)	15	15	355.7	110.2	360.8	77.86	25.13	21.58%	19.15	
112	Pyridoxine (µg / g)	1	1	0.4700							
113	Folic Acid (mg / kg (ppm))	1	1	0.1740							
114	Biotin (mg / kg (ppm))	1	1	0.1445							
120	Alanine (%)	8	7	0.2603	0.0291	0.2603	0.0330	0.0156	12.67%	0.0044	4.90%
121	Arginine (%)	8	8	0.1834	0.0287	0.1868	0.0240	0.0106	12.88%	0.0085	5.15%
122	Aspartic (%)	8	7	0.2613	0.0198	0.2623	0.0201	0.0095	7.64%	0.0056	4.89%
124	Cysteine/Cystine (%)	8	7	0.0762	0.0222	0.0755	0.0198	0.0093	26.18%	0.0038	5.90%
125	Glutamic (%)	8	8	0.6011	0.1377	0.6371	0.0523	0.0231	8.20%	0.0180	4.28%
126	Glycine (%)	8	8	0.1948	0.0268	0.1995	0.0181	0.0080	9.05%	0.0045	5.10%
127	Histidine (%)	8	7	0.0871	0.0397	0.0871	0.0450	0.0213	51.66%	0.0014	5.78%
128	Isoleucine (%)	8	7	0.1217	0.0085	0.1217	0.0097	0.0046	7.95%	0.0017	5.49%
129	Leucine (%)	8	7	0.2674	0.0704	0.2885	0.0206	0.0097	7.15%	0.0053	4.82%
130	L-Lysine (%)	8	8	0.1200	0.0183	0.1200	0.0208	0.0092	17.33%	0.0076	5.50%
131	Methionine (%)	8	6	0.0391	0.0084	0.0401	0.0039	0.0020	9.72%	0.0010	6.49%
132	Phenylalanine (%)	8	7	0.1484	0.0253	0.1484	0.0287	0.0136	19.32%	0.0035	5.33%
133	Proline (%)	8	7	0.2917	0.0237	0.2929	0.0240	0.0114	8.20%	0.0045	4.81%
134	Serine (%)	8	7	0.1677	0.0101	0.1666	0.0089	0.0042	5.34%	0.0023	5.24%
135	Threonine (%)	8	7	0.1426	0.0077	0.1426	0.0087	0.0041	6.12%	0.0018	5.36%
136	Tryptophan (%)	8	6	0.0393	0.0061	0.0391	0.0064	0.0033	16.32%	0.0006	6.52%
137	Tyrosine (%)	7	6	0.1273	0.0128	0.1273	0.0145	0.0074	11.41%	0.0044	5.45%
138	Valine (%)	8	8	0.1881	0.0271	0.1913	0.0226	0.0100	11.82%	0.0046	5.13%
139	Taurine (%)	2	2	0.0328	0.0223						
150	Phytase (Units / kg)	2	2	3,215	2,389						
160	Fructose (%)	1		0.1500							
162	Glucose (%)	1		0.1500							
163	Lactose (%)	1		0.1500							
164	Maltose (%)	1		0.1500							
165	Sucrose (%)	1	1	0.1850							
166	Raffinose (%)	1		0.0500							

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167	Stachyose (%)	1		0.0500							
400	Water Activity (Units)	10	10	0.4164	0.0309	0.4110	0.0179	0.0071	4.36%	0.0053	
412	Starch, Dietary (%)	1	1	1.850							
516	Arsenic, Total (mg / kg (ppm))	14	12	3.881	0.7968	3.866	0.8701	0.3140	22.51%	0.2515	13.05%
518	Cadmium (mg / kg (ppm))	17	15	1.275	0.3321	1.331	0.2219	0.0716	16.67%	0.0747	15.32%
520	Chromium (mg / kg (ppm))	16	15	26.87	3.357	26.75	3.528	1.139	13.19%	1.478	9.76%
526	Lead (mg / kg (ppm))	12	10	0.9957	0.4939	0.9785	0.2684	0.1061	27.43%	0.0671	16.05%
529	Mercury (µg / kg (ppb))	2	1	6.275							
539	Nickel (mg / kg (ppm))	10	10	10.94	2.274	10.94	2.578	1.019	23.57%	0.5590	11.16%
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	0.2200							
718	Palmitoleic Acid (9c-16:1) (% (w/w))	1		0.0400							
722	Stearic Acid (18:0) (% (w/w))	1	1	0.0400							
724	Oleic Acid (9c-18:1) (% (w/w))	1	1	0.2150							
726	Linoleic Acid (9c,12c-18:2) (% (w/w))	1	1	0.3350							
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (% (w/w))	1		0.0200							
730	Arachidic Acid (20:0) (% (w/w))	1		0.0200							
732	Gondoic Acid (11c-20:1) (% (w/w))	1		0.0200							
742	Behenic Acid (22:0) (% (w/w))	1		0.0200							
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids (% (w/w))	1		0.0500							
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (% (w/w))	1	1	0.3350							
758	Total Saturated Fatty Acids (% (w/w))	1	1	0.2950							
762	Total Monounsaturated Fatty Acids (% (w/w))	1	1	0.2450							
766	Total Polyunsaturated Fatty Acids (% (w/w))	1	1	0.3650							
770	Total Fat (equivalent to NLEA) (% (w/w))	1	1	0.9700							
772	Total Fatty Acids (% (w/w))	1	1	0.9250							

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.