



AAFCO
Proficiency Testing Program



Animal Feed Scheme
Dairy Feed, Medicated
Test Material Code # 201930

Analyte Summary Report

Labs Reporting: 196
Analytes Reported: 113
Issue Date : 11/30/2019

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	0.8500							
001	Loss on Drying (%)	90	87	8.467	0.4798	8.497	0.3528	0.0473	4.15%	0.1117	2.90%
002	Protein, Crude (%)	194	189	19.07	0.5896	19.06	0.3845	0.0350	2.02%	0.1753	2.29%
003	Fat, Crude (%)	156	151	4.078	0.4718	4.078	0.3477	0.0354	8.53%	0.1285	3.24%
004	Fiber, Crude (%)	123	121	13.53	1.069	13.49	0.8945	0.1016	6.63%	0.2247	2.70%
005	Ash (%)	153	152	7.699	0.3298	7.714	0.2462	0.0250	3.19%	0.0813	2.94%
006	Total Sugars (%)	5	4	3.835	0.7614	3.835	0.7614	0.3807	19.85%	0.0550	3.27%
008	Fiber, Acid Detergent (%)	65	65	18.34	1.393	18.31	1.243	0.1926	6.79%	0.4063	2.34%
009	Fiber, Neutral Detergent (%)	63	61	34.39	2.223	34.24	1.852	0.2963	5.41%	0.4259	1.71%
010	Moisture (%)	22	21	8.715	0.6295	8.682	0.6047	0.1650	6.97%	0.1253	2.89%
011	Loss on Drying (%)	70	68	9.471	0.4810	9.449	0.4567	0.0692	4.83%	0.1219	2.85%
012	Starch (%)	45	44	14.20	1.568	14.15	1.386	0.2611	9.79%	0.2999	2.66%
013	Fat, Acid Pretreat (%)	46	46	5.167	0.6591	5.189	0.6098	0.1124	11.75%	0.1461	3.12%
015	Aluminum (mg / kg (ppm))	17	17	135.9	24.63	136.8	25.29	7.667	18.48%	6.872	7.63%
017	Boron (mg / kg (ppm))	20	18	8.123	1.552	8.331	0.6978	0.2056	8.38%	0.5987	11.63%
019	Calcium (%)	145	142	1.217	0.0991	1.212	0.0787	0.0083	6.50%	0.0355	3.89%
021	Cobalt (mg / kg (ppm))	31	29	2.757	0.7275	2.765	0.7814	0.1814	28.25%	0.1831	13.73%
022	Copper (mg / kg (ppm))	100	98	59.21	5.459	59.32	5.120	0.6464	8.63%	2.431	8.65%
024	Iodine (mg / kg (ppm))	3	3	4.707	0.2610	4.707	0.2610	0.1507	5.55%	0.7733	12.67%
025	Iron (mg / kg (ppm))	91	89	324.8	41.51	326.9	38.59	5.113	11.80%	13.33	6.69%
027	Magnesium (%)	108	106	0.3813	0.0228	0.3801	0.0217	0.0026	5.71%	0.0101	4.63%
028	Manganese (mg / kg (ppm))	98	96	192.5	22.57	192.5	16.41	2.093	8.53%	7.961	7.25%
031	Phosphorus (%)	139	136	0.8117	0.0512	0.8104	0.0395	0.0042	4.87%	0.0180	4.13%
032	Potassium (%)	105	104	1.071	0.0819	1.073	0.0674	0.0083	6.28%	0.0337	3.96%
033	Salt as chloride (%)	72	69	1.055	0.1293	1.077	0.0609	0.0092	5.65%	0.0200	3.96%
034	Selenium (mg / kg (ppm))	25	24	1.523	0.3072	1.486	0.2544	0.0649	17.12%	0.0989	15.07%
035	Sodium (%)	106	104	0.4499	0.0363	0.4500	0.0289	0.0035	6.43%	0.0144	4.51%
036	Sulfur (%)	50	49	0.4671	0.0496	0.4674	0.0352	0.0063	7.54%	0.0158	4.48%
037	Zinc (mg / kg (ppm))	101	100	237.8	36.04	238.6	19.82	2.478	8.31%	8.890	7.02%
038	Molybdenum (mg / kg (ppm))	21	21	1.393	0.3283	1.337	0.2193	0.0598	16.41%	0.1688	15.31%

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040	Barium (mg / kg (ppm))	3	3	15.36	1.503	15.36	1.503	0.8679	9.79%	0.9338	10.60%
041	Vanadium (mg / kg (ppm))	1	1	1.205							
042	Chloride (%)	5	5	0.6762	0.0282	0.6762	0.0282	0.0126	4.17%	0.0404	4.24%
101	Choline Chloride (mg / kg (ppm))	1	1	1,400							
102	Niacin (mg / kg (ppm))	1	1	70.90							
103	Pantothenic Acid (mg / kg (ppm))	1	1	7.980							
104	Riboflavin (mg / kg (ppm))	3	3	2.740	1.765	2.740	1.765	1.019	64.41%	1.087	13.75%
105	Thiamine (mg / kg (ppm))	2	2	3.060	1.266						
106	Vitamin A (KU / kg)	21	21	16.55	9.171	15.41	4.520	1.233	29.33%	2.883	
107	Vitamin B12 (µg / kg (ppb))	1	1	8.445							
108	Vitamin D3 (KU / kg)	8	8	8.304	5.062	7.237	2.673	1.181	36.93%	0.3213	
109	Vitamin E (IU / kg)	14	13	93.06	30.72	97.21	24.12	8.361	24.81%	2.652	
112	Pyridoxine (µg / g)	1	1	2.425							
113	Folic Acid (mg / kg (ppm))	1	1	0.8300							
114	Biotin (mg / kg (ppm))	1	1	0.2315							
115	Non Protein N (NPN) (%)	1	1	0.8100							
118	Peroxide value (meq/kg)	1	1	5.140							
120	Alanine (%)	35	34	0.9010	0.0723	0.9021	0.0509	0.0109	5.65%	0.0147	4.06%
121	Arginine (%)	33	32	1.227	0.1125	1.241	0.0853	0.0188	6.87%	0.0252	3.87%
122	Aspartic (%)	35	34	1.422	0.0976	1.413	0.0694	0.0149	4.91%	0.0311	3.80%
124	Cysteine/Cystine (%)	34	33	0.3150	0.0625	0.3217	0.0489	0.0106	15.19%	0.0120	4.74%
125	Glutamic (%)	35	33	3.233	0.1828	3.228	0.1469	0.0320	4.55%	0.0512	3.35%
126	Glycine (%)	35	34	0.8495	0.1227	0.8530	0.0389	0.0083	4.56%	0.0187	4.10%
127	Histidine (%)	35	33	0.4691	0.0555	0.4659	0.0281	0.0061	6.03%	0.0091	4.49%
128	Isoleucine (%)	35	35	0.6038	0.0501	0.6050	0.0418	0.0088	6.90%	0.0137	4.31%
129	Leucine (%)	35	34	1.340	0.1018	1.347	0.0544	0.0117	4.04%	0.0216	3.82%
130	L-Lysine (%)	37	36	0.7361	0.1238	0.7109	0.0444	0.0092	6.24%	0.0153	4.21%
131	Methionine (%)	35	34	0.2807	0.0357	0.2872	0.0220	0.0047	7.67%	0.0087	4.83%
132	Phenylalanine (%)	35	35	0.8270	0.0440	0.8311	0.0362	0.0076	4.35%	0.0217	4.11%
133	Proline (%)	34	34	1.086	0.1188	1.080	0.0834	0.0179	7.72%	0.0252	3.95%
134	Serine (%)	35	34	0.8191	0.0590	0.8160	0.0515	0.0110	6.31%	0.0259	4.12%
135	Threonine (%)	35	34	0.6145	0.0227	0.6130	0.0218	0.0047	3.56%	0.0158	4.31%
136	Tryptophan (%)	24	24	0.2243	0.0672	0.2210	0.0481	0.0123	21.77%	0.0059	5.02%
137	Tyrosine (%)	29	28	0.5443	0.0609	0.5415	0.0622	0.0147	11.49%	0.0135	4.39%
138	Valine (%)	35	34	0.8184	0.0629	0.8247	0.0571	0.0122	6.92%	0.0189	4.12%
139	Taurine (%)	6	5	0.0699	0.0679	0.0699	0.0679	0.0379	97.10%	0.0038	5.97%
160	Fructose (%)	3	3	0.2200	0.0680	0.2200	0.0680	0.0392	30.89%	0.0140	5.02%
162	Glucose (%)	3	3	0.2332	0.0101	0.2332	0.0101	0.0058	4.34%	0.0183	4.98%
163	Lactose (%)	2		0.0000							
164	Maltose (%)	2	1	0.2125							

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165	Sucrose (%)	3	3	1.407	0.3368	1.407	0.3368	0.1944	23.94%	0.0267	3.80%
166	Raffinose (%)	3	3	0.7368	0.1872	0.7368	0.1872	0.1081	25.41%	0.0343	4.19%
167	Stachyose (%)	3	3	0.2490	0.1369	0.2490	0.1369	0.0790	54.98%	0.0360	4.93%
323	Diflubenzuron (mg/kg (ppm))	1	1	0.6250							
351	Chlortetracycline (mg/kg (ppm))	14	14	182.9	42.59	181.9	27.87	9.309	15.32%	11.92	7.31%
365	Monensin (mg/kg (ppm))	27	27	28.79	4.369	28.61	4.421	1.063	15.45%	2.480	9.66%
400	Water Activity (Units)	12	11	0.5005	0.0286	0.5000	0.0228	0.0086	4.56%	0.0042	
412	Starch, Dietary (%)	1	1	13.39							
516	Arsenic, Total (mg / kg (ppm))	11	10	0.1482	0.0203	0.1456	0.0162	0.0064	11.12%	0.0132	21.38%
518	Cadmium (mg / kg (ppm))	13	12	0.1181	0.0076	0.1180	0.0085	0.0031	7.24%	0.0088	22.00%
520	Chromium (mg / kg (ppm))	12	12	2.915	1.583	2.915	1.795	0.6476	61.57%	0.1892	13.62%
526	Lead (mg / kg (ppm))	12	10	0.1542	0.0206	0.1570	0.0160	0.0063	10.17%	0.0171	21.14%
529	Mercury (µg / kg (ppb))	1	1	0.0030							
539	Nickel (mg / kg (ppm))	7	7	1.945	0.3946	1.930	0.4121	0.1947	21.35%	0.3683	14.49%
702	Butyric Acid (4:0) (%)	1		0.0000							
704	Caproic Acid (6:0) (%)	1	1	0.0015							
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	1								
714	Myristic Acid (14:0) (%) (w/w)	3	3	0.1670	0.2497	0.1670	0.2497	0.1442	149.52%	0.0167	
716	Palmitic Acid (16:0) (%) (w/w)	3	3	6.804	10.39	6.804	10.39	6.000	152.76%	0.0553	
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	4	3	0.1775	0.2836	0.1775	0.2836	0.1638	159.79%	0.0303	
722	Stearic Acid (18:0) (%) (w/w)	3	3	0.9730	1.522	0.9730	1.522	0.8785	156.38%	0.0480	
724	Oleic Acid (9c-18:1) (%) (w/w)	3	3	7.846	12.05	7.846	12.05	6.957	153.58%	0.1987	
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	5	4	2.343	0.2441	2.343	0.2441	0.1220	10.42%	0.0665	
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	4	3	0.1272	0.0075	0.1272	0.0075	0.0043	5.91%	0.0023	
730	Arachidic Acid (20:0) (%) (w/w)	3	3	0.1377	0.1888	0.1377	0.1888	0.1090	137.12%	0.0040	
732	Gondoic Acid (11c-20:1) (%) (w/w)	3	3	0.1440	0.1962	0.1440	0.1962	0.1133	136.26%	0.0000	
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (%) (w/w)	2		0.0000							
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									
742	Behenic Acid (22:0) (%) (w/w)	2	2	0.1780	0.2362						
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)	3									
748	Lignoceric Acid (24:0) (%) (w/w)	1	1	0.0120							
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%) (w/w)	3									
752	Nervonic Acid (24:1) isomers (%) (w/w)	2		0.0000							
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids (%) (w/w)	3	3	1.060	1.615	1.060	1.615	0.9325	152.38%	0.0133	
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (%) (w/w)	3	3	18.11	27.52	18.11	27.52	15.89	151.98%	0.4000	
758	Total Saturated Fatty Acids (%) (w/w)	1	1	23.62							

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762	Total Monounsaturated Fatty Acids (% (w/w))	1	1	22.68							
766	Total Polyunsaturated Fatty Acids (% (w/w))	1	1	52.91							
772	Total Fatty Acids (% (w/w))	1	1	4.255							

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.