



**AAFCO**  
Association of American Feed Control Officials



**Animal Feed Scheme**  
**Dry Cat Feed**  
**Test Material Code # 202232**

**Analyte Summary Report**

**# Labs Reporting: 183**  
**# Analytes Reported: 118**  
**Issue Date : 01/31/2023**

Analyte Group Code	Analyte and Method	Total # Tests Submitted	# Tests in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO #fp Robust SD	Uncertainty (U) Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
000	Urea (%)	1	1	0.1000							
001	Loss on Drying (%)	88	87	6.816	0.4751	6.855	0.2879	0.0386	4.20%	0.1000	2.99%
002	Protein, Crude (%)	186	183	31.53	0.4678	31.54	0.3699	0.0342	1.17%	0.2461	1.78%
003	Fat, Crude (%)	125	124	7.101	1.100	6.892	0.5937	0.0666	8.61%	0.1388	2.99%
004	Fiber, Crude (%)	114	111	2.053	0.6548	1.979	0.3639	0.0432	18.38%	0.1498	3.61%
005	Ash (%)	151	147	6.549	0.3605	6.518	0.1093	0.0113	1.68%	0.0786	3.02%
006	Total Sugars (%)	4	4	1.701	0.8259	1.701	0.8259	0.4130	48.55%	0.1325	3.69%
008	Fiber, Acid Detergent (%)	59	57	3.880	0.9044	3.912	0.8169	0.1352	20.88%	0.2137	3.26%
009	Fiber, Neutral Detergent (%)	53	52	11.84	2.971	11.79	2.166	0.3755	18.37%	0.4938	2.76%
010	Moisture (%)	20	19	6.865	0.5449	6.952	0.3019	0.0866	4.34%	0.1032	2.99%
011	Loss on Drying, HT (%)	75	73	7.516	0.3248	7.521	0.2833	0.0414	3.77%	0.1035	2.95%
012	Starch (%)	36	36	32.35	1.928	32.53	1.563	0.3257	4.81%	0.7345	1.75%
013	Fat, Acid Pretreat (%)	85	83	10.55	0.6158	10.58	0.5241	0.0719	4.95%	0.2450	2.80%
014	Fiber, Total Dietary (%)	1	1	8.300							
015	Aluminum (ppm)	17	17	70.63	15.91	70.63	18.04	5.469	25.54%	3.215	8.43%
017	Boron (ppm)	18	17	5.288	1.512	5.064	0.9346	0.2833	18.46%	0.5613	12.53%
019	Calcium (%)	135	135	1.198	0.0739	1.198	0.0638	0.0069	5.33%	0.0366	3.89%
021	Cobalt (ppm)	21	18	0.6183	0.2550	0.5725	0.1469	0.0433	25.66%	0.0759	17.40%
022	Copper (ppm)	94	92	23.68	2.362	23.62	1.826	0.2380	7.73%	0.6605	9.94%
024	Iodine (ppm)	1	1	1.818							
025	Iron (ppm)	88	86	253.8	28.12	256.5	22.94	3.092	8.94%	9.036	6.94%
027	Magnesium (%)	103	101	0.1324	0.0095	0.1319	0.0088	0.0011	6.71%	0.0032	5.43%
028	Manganese (ppm)	99	98	40.15	3.555	40.33	3.072	0.3879	7.62%	1.729	9.17%
030	Nitrate (%)	1	1	0.4950							
031	Phosphorus (%)	133	130	1.056	0.0558	1.056	0.0488	0.0053	4.62%	0.0294	3.97%
032	Potassium (%)	107	105	0.7703	0.0488	0.7706	0.0446	0.0054	5.79%	0.0226	4.16%
033	Salt as chloride (%)	61	60	1.079	0.1655	1.100	0.0594	0.0096	5.40%	0.0172	3.94%
034	Selenium, Total (Se) (ppm)	21	18	0.6653	0.2134	0.6269	0.1280	0.0377	20.42%	0.0373	17.16%
035	Sodium (%)	106	105	0.3889	0.0415	0.3861	0.0236	0.0029	6.13%	0.0134	4.62%

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036	Sulfur (%)	50	49	0.4607	0.0364	0.4590	0.0345	0.0062	7.51%	0.0120	4.50%
037	Zinc (ppm)	94	91	215.5	18.97	216.4	17.47	2.290	8.08%	6.398	7.12%
038	Molybdenum (ppm)	20	19	0.6634	0.1773	0.6523	0.1387	0.0398	21.26%	0.0436	17.06%
040	Barium (ppm)	1	1	6.011							
041	Vanadium (ppm)	1	1	0.5634							
042	Chloride (%)	10	10	0.7702	0.1661	0.7373	0.0921	0.0364	12.50%	0.0115	4.19%
101	Choline Chloride (ppm)	2	2	3,368	143.9						
102	Niacin (ppm)	3	3	100.1	86.09	100.1	86.09	49.71	85.97%	1.013	8.00%
103	Pantothenic Acid (ppm)	2	2	11.06	15.34						
104	Riboflavin (ppm)	5	4	9.452	6.263	9.452	6.263	3.131	66.26%	0.1623	11.41%
105	Thiamine (ppm)	5	3	12.26	2.052	12.26	2.052	1.185	16.73%	0.2200	10.97%
106	Vitamin A (KU / kg)	15	15	9.428	2.606	9.273	2.575	0.8310	27.76%	1.138	
107	Vitamin B12 (ppb)	2	2	44.98	56.25						
108	Vitamin D3 (KU / kg)	8	7	1.280	0.8422	1.224	0.8226	0.3886	67.19%	0.2654	
109	Vitamin E (IU / kg)	17	16	99.80	22.22	101.3	18.15	5.673	17.93%	3.460	
111	Vitamin C, Phosphorylated (ppm)	2	1	8.350							
112	Pyridoxine (µg / g)	4	4	13.39	2.477	13.39	2.477	1.238	18.49%	0.8075	10.83%
113	Folic Acid (ppm)	3	3	1.784	1.544	1.784	1.544	0.8913	86.54%	0.0803	14.66%
114	Biotin (ppm)	2	2	0.2625	0.3699						
115	Non Protein N (NPN) (%)	3	3	0.3931	0.3093	0.3931	0.3093	0.1786	78.68%	0.0363	4.60%
118	Peroxide value (meq/kg)	1	1	7.750							
120	Alanine (%)	30	30	2.133	0.0978	2.136	0.0822	0.0188	3.85%	0.0341	3.57%
121	Arginine (%)	30	29	1.658	0.1440	1.678	0.1077	0.0250	6.42%	0.0404	3.70%
122	Aspartic (%)	30	28	2.346	0.1102	2.349	0.0949	0.0224	4.04%	0.0225	3.52%
124	Cysteine/Cystine (%)	29	28	0.4276	0.0513	0.4223	0.0391	0.0092	9.26%	0.0103	4.55%
125	Glutamic (%)	30	30	5.027	0.3614	5.066	0.2892	0.0660	5.71%	0.0749	3.13%
126	Glycine (%)	29	28	1.972	0.0942	1.964	0.0779	0.0184	3.97%	0.0327	3.61%
127	Histidine (%)	29	28	0.6735	0.0622	0.6732	0.0561	0.0133	8.33%	0.0115	4.25%
128	Isoleucine (%)	30	30	1.147	0.0829	1.152	0.0757	0.0173	6.57%	0.0171	3.92%
129	Leucine (%)	30	30	3.064	0.1578	3.072	0.1415	0.0323	4.61%	0.0383	3.38%
130	L-Lysine (%)	33	32	1.439	0.1001	1.433	0.0809	0.0179	5.64%	0.0259	3.79%
131	Methionine (%)	33	32	0.7284	0.1027	0.7400	0.0635	0.0140	8.58%	0.0152	4.19%
132	Phenylalanine (%)	30	30	1.445	0.0748	1.443	0.0736	0.0168	5.10%	0.0258	3.79%
133	Proline (%)	29	28	2.223	0.1389	2.226	0.1337	0.0316	6.01%	0.0386	3.55%
134	Serine (%)	30	30	1.379	0.1501	1.382	0.1414	0.0323	10.24%	0.0225	3.81%
135	Threonine (%)	31	31	1.104	0.0688	1.106	0.0491	0.0110	4.44%	0.0186	3.94%
136	Tryptophan (%)	23	21	0.2814	0.0447	0.2765	0.0233	0.0064	8.44%	0.0053	4.85%
137	Tyrosine (%)	26	25	1.033	0.1321	1.038	0.1368	0.0342	13.17%	0.0205	3.98%
138	Valine (%)	30	30	1.364	0.0801	1.367	0.0724	0.0165	5.29%	0.0201	3.82%
139	Taurine (%)	10	9	0.2011	0.0738	0.1854	0.0386	0.0161	20.81%	0.0047	5.15%

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160	Fructose (%)	2	1	0.1000							
161	Galactose (%)	1		0.0000							
162	Glucose (%)	2	2	0.1275	0.1096						
163	Lactose (%)	2		0.0000							
164	Maltose (%)	2		0.0000							
165	Sucrose (%)	2	2	1.223	0.0177						
166	Raffinose (%)	2	2	0.1950	0.0071						
167	Stachyose (%)	2	2	0.3825	0.0035						
392	Fenbendazole (ppm)	1		1.000							
400	Water Activity (Units)	19	19	0.4501	0.0434	0.4520	0.0214	0.0061	4.74%	0.0084	
516	Arsenic, Total (As) (ppm)	6	4	0.0882	0.0075	0.0882	0.0075	0.0047	8.48%	0.0094	22.00%
518	Cadmium (ppm)	8	6	0.0467	0.0057	0.0467	0.0065	0.0033	13.82%	0.0046	22.00%
520	Chromium, Total (Cr) (ppm)	10	10	1.909	0.4927	1.909	0.5587	0.2208	29.26%	0.1315	14.51%
526	Lead (ppm)	8	7	0.1946	0.0534	0.1946	0.0606	0.0286	31.14%	0.0273	20.47%
529	Mercury (ppb)	5	1								
539	Nickel (ppm)	7	7	1.225	0.1158	1.229	0.0863	0.0408	7.02%	0.1365	15.51%
702	Butyric Acid (4:0) (%)	1		0.0200							
704	Caproic Acid (6:0) (%)	1		0.0200							
706	Caprylic acid (8:0) (%) (w/w)	2		0.0200							
708	Capric acid (10:0) (%) (w/w)	2		0.0200							
710	Lauric Acid (12:0) (%) (w/w)	4	2	0.0284	0.0305	0.0284	0.0305	0.0216	107.32%	0.0001	6.83%
714	Myristic Acid (14:0) (%) (w/w)	5	4	0.0472	0.0148	0.0472	0.0148	0.0074	31.40%	0.0076	6.33%
716	Palmitic Acid (16:0) (%) (w/w)	5	4	1.937	0.2204	1.937	0.2204	0.1102	11.38%	0.0433	3.62%
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	6	5	0.4119	0.0393	0.4119	0.0393	0.0220	9.55%	0.0072	4.57%
720	Margaric acid (17:0) (%) (w/w)	3	1								
722	Stearic Acid (18:0) (%) (w/w)	5	4	0.5859	0.1053	0.5859	0.1053	0.0526	17.97%	0.0214	4.33%
724	Oleic Acid (9c-18:1) (%) (w/w)	5	4	3.026	0.1490	3.026	0.1490	0.0745	4.92%	0.0543	3.39%
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	8	7	2.588	0.2354	2.593	0.2557	0.1208	9.86%	0.0453	3.47%
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	7	6	0.1041	0.0160	0.1054	0.0150	0.0077	14.25%	0.0022	5.61%
730	Arachidic Acid (20:0) (%) (w/w)	4	3	0.0177	0.0069	0.0177	0.0069	0.0040	38.86%	0.0000	7.34%
732	Gondoic Acid (11c-20:1) (%) (w/w)	3	3	0.0275	0.0066	0.0275	0.0066	0.0038	23.95%	0.0001	6.87%
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (%) (w/w)	4	3	0.0410	0.0183	0.0410	0.0183	0.0105	44.51%	0.0000	6.47%
738	Mead Acid (11c,14c,17c-20:3) (%) (w/w)	1	1	0.0100							
740	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5) (%) (w/w)	5	3	0.0097	0.0003	0.0097	0.0003	0.0002	3.00%	0.0004	8.04%
742	Behenic Acid (22:0) (%) (w/w)	4	3	0.0397	0.0480	0.0397	0.0480	0.0277	120.84%	0.0035	6.50%
744	Erucic Acid (13c-22:1) (%) (w/w)	4									
746	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%) (w/w)	5	2	0.0059	0.0002	0.0059	0.0002	0.0001	3.06%	0.0001	8.66%
748	Lignoceric Acid (24:0) (%) (w/w)	4	3	0.0151	0.0050	0.0151	0.0050	0.0029	33.22%	0.0002	7.52%
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%) (w/w)	5	3	0.0102	0.0003	0.0102	0.0003	0.0002	3.14%	0.0001	7.98%
752	Nervonic Acid (24:1) isomers (%) (w/w)	3	2	0.0077	0.0033	0.0077	0.0033	0.0023	42.21%	0.0003	8.32%

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754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids (% (w/w))	5	4	0.1180	0.0328	0.1180	0.0328	0.0164	27.75%	0.0050	5.52%
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (% (w/w))	5	4	2.562	0.2644	2.562	0.2644	0.1322	10.32%	0.0170	3.47%
758	Total Saturated Fatty Acids (% (w/w))	5	4	2.416	0.3723	2.416	0.3723	0.1862	15.41%	0.0525	3.50%
762	Total Monounsaturated Fatty Acids (% (w/w))	4	3	3.305	0.4331	3.305	0.4331	0.2501	13.11%	0.0700	3.34%
764	Total cis Monounsaturated Fatty Acids (% (w/w))	1	1	3.615							
766	Total Polyunsaturated Fatty Acids (% (w/w))	4	3	2.275	0.4031	2.275	0.4031	0.2327	17.72%	0.0567	3.53%
768	Total cis Polyunsaturated Fatty Acids (% (w/w))	1	1	2.830							
770	Total Fat (equivalent to NLEA) (% (w/w))	1	1	9.700							
772	Total Fatty Acids (% (w/w))	4	4	8.882	0.8291	8.882	0.8291	0.4145	9.33%	0.1678	2.88%

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. Robust Assigned Values indicated in bold font.