

Pet Food Ingredient Scheme

Corn

Test Material Code # 202043

Method Summary Report

(Precision Report Follows)

Labs Reporting: 62

Methods Reported: 220

Issue Date : 09/30/2020

Method Code	Analyte and Method	Total # Labs Submitting	# Labs 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
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	21	19	11.04	0.1938	11.06	0.1659	0.0476	1.50%	0.1153	2.79%
001.99	Loss on Drying, Miscellaneous (%)	7	7	10.73	0.4871	10.73	0.5524	0.2610	5.15%	0.1829	2.80%
001.00	Loss on Drying, Vac 95°C 5 hr (%)	3	3	10.99	0.4378	10.99	0.4378	0.2528	3.98%	0.2627	2.79%
001.03	Loss on Drying, Low temp. methods (%)	1	1	10.93							
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	50	49	7.016	0.2743	7.034	0.1791	0.0320	2.55%	0.1062	2.98%
002.01	Protein, Crude, Auto Kjell-Foss (%)	4	4	7.235	0.1896	7.235	0.1896	0.0948	2.62%	0.1793	2.97%
002.04	Protein, Crude, Copper Catalyst (%)	2	2	7.023	0.0389						
002.00	Protein, Crude, Crude (%)	1	1	7.725							
002.05	Protein, Crude, Copper, Boric Acid (%)	1	1	7.075							
002.08	Protein, Crude, Cu/Ti (%)	1	1	7.110							
002.11	Protein, Crude, NIR (%)	1	1	11.04							
003.14	Fat, Crude, Ankom (%)	10	10	3.738	0.2100	3.726	0.2102	0.0831	5.64%	0.1765	3.28%
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	9	9	3.830	0.0954	3.830	0.1082	0.0451	2.82%	0.1022	3.27%
003.10	Fat, Crude, Randall, Pet Ether (%)	10	9	3.752	0.2163	3.760	0.2282	0.0951	6.07%	0.1454	3.28%
003.06	Fat, Crude, Pet Ether (%)	4	4	3.921	0.2095	3.921	0.2095	0.1047	5.34%	0.0275	3.26%
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	4	4	3.983	0.2779	3.983	0.2779	0.1389	6.98%	0.0758	3.25%
003.13	Fat, Crude, Randall, Hexane Ext. (%)	3	3	4.043	0.3891	4.043	0.3891	0.2751	9.62%	0.4125	3.24%
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirect (%)	1	1	3.275							
003.11	Fat, Crude, NIR (%)	1	1	3.230							
003.12	Fat, Crude, Hexane Ext (%)	1	1	3.850							
004.07	Fiber, Crude, ANKOM (%)	18	18	1.905	0.4210	1.906	0.4761	0.1403	24.98%	0.1421	3.63%
004.00	Fiber, Crude, Asbestos Free (%)	7	7	1.845	0.3523	1.878	0.2943	0.1391	15.67%	0.1387	3.64%
004.06	Fiber, Crude, Fibertec (%)	4	4	2.504	0.7286	2.504	0.7286	0.3643	29.10%	0.0923	3.48%
004.03	Fiber, Crude, Fritted Glass (%)	1	1	1.740							
004.11	Fiber, Crude, NIR (%)	1	1	2.265							
005.00	Ash, 2h @ 600°C (%)	41	40	1.244	0.1001	1.247	0.0805	0.0159	6.46%	0.0452	3.87%
005.05	Ash, 3h @ 550°C (%)	4	3	2.269	1.640	2.269	1.640	0.9466	72.26%	0.0867	3.54%
005.99	Ash, Miscellaneous (%)	3	3	1.240	0.2266	1.240	0.2266	0.1308	18.27%	0.0533	3.87%
005.03	Ash, Microwave furnace (%)	1	1	1.180							

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006.00	Total Sugars, As sucrose (%)	1	1	1.751							
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	8	8	2.869	0.4975	2.875	0.5504	0.2433	19.15%	0.1408	3.41%
008.02	Fiber, Acid Detergent, Crucible (%)	3	3	2.598	0.2006	2.598	0.2006	0.1418	7.72%	0.0415	3.46%
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	6	6	8.196	0.6229	8.196	0.7064	0.3605	8.62%	0.0764	2.91%
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	2	2	9.236	2.919						
009.04	Fiber, Neutral Detergent, Neutral Det-No ENZ Pretreat (%)	1	1	7.460							
010.99	Moisture, Miscellaneous (%)	2	2	10.38	0.3253						
011.01	Loss on Drying, 135°C 2hr (%)	20	19	11.56	0.6218	11.65	0.4143	0.1188	3.56%	0.0806	2.76%
011.02	Loss on Drying, 130°C for 2 hours (%)	5	3	11.75	0.0777	11.75	0.0777	0.0448	0.66%	0.0300	2.76%
011.99	Loss on Drying, High Temp. Methods Miscellaneous (%)	1	1	11.58							
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	3	3	62.27	1.433	62.27	1.433	0.8273	2.30%	1.884	1.27%
012.03	Starch, Enzymatic-Colorimetric Method, Miscellaneous (%)	2	2	64.29	11.61						
012.04	Starch, Enzymatic-Enzyme Membrane Technology (YSI) (%)	1	1	61.75							
013.02	Fat, Acid Pretreat, Mojonier, Bak Ext (%)	12	12	4.375	0.3719	4.372	0.4171	0.1505	9.54%	0.1149	3.20%
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	5	5	4.315	0.2698	4.315	0.2698	0.1206	6.25%	0.2359	3.21%
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	2	2	4.268	0.0955						
013.13	Fat, Acid Pretreat, Ankom- Acid Hydrolysis (%)	2	2	4.382	1.218						
015.41	Aluminum, ICP, Dry ash (ppm)	2	2	1.925	1.019						
015.43	Aluminum, ICP, Microwave (ppm)	1	1	2.029							
017.43	Boron, ICP, Microwave (ppm)	2	2	2.623	0.5332						
017.41	Boron, ICP, Dry ash (ppm)	1	1	5.190							
017.53	Boron, ICP-MS, Microwave (ppm)	1	1	3.530							
019.41	Calcium, ICP, Dry ash (%)	10	10	0.0096	0.0034	0.0096	0.0038	0.0015	39.54%	0.0004	8.04%
019.43	Calcium, ICP, Microwave (%)	8	8	0.0152	0.0135	0.0130	0.0094	0.0041	72.29%	0.0030	7.69%
019.44	Calcium, ICP, Dry ash (%)	7	6	0.0087	0.0033	0.0100	0.0000	0.0000		0.0000	8.00%
019.42	Calcium, ICP, Open vessel (%)	1	1	0.0072							
019.53	Calcium, ICP-MS, Microwave (%)	1	1	0.0050							
019.99	Calcium, Miscellaneous (%)	2		0.0000							
021.41	Cobalt, ICP, Dry ash (ppm)	2	2	0.0570	0.0452						
021.43	Cobalt, ICP, Microwave (ppm)	2	2	0.0849	0.0635						
021.53	Cobalt, ICP-MS, Microwave (ppm)	1	1	22.52							
021.31	Cobalt, AAS, Dry ash (ppm)	1		0.7500							
022.43	Copper, ICP, Microwave (ppm)	10	7	2.396	1.115	2.396	1.264	0.5972	52.76%	0.0982	14.03%
022.41	Copper, ICP, Dry ash (ppm)	6	6	1.792	0.1733	1.792	0.1965	0.1003	10.96%	0.1972	14.65%
022.31	Copper, AAS, Dry ash (ppm)	3	2	1.168	1.510	1.168	1.510			0.1150	15.63%
022.42	Copper, ICP, Open vessel (ppm)	2	2	2.090	0.1266						
022.33	Copper, AAS, Microwave (ppm)	1	1	1.545							
022.52	Copper, ICP-MS, Open vessel (ppm)	1	1	4.930							
022.53	Copper, ICP-MS, Microwave (ppm)	1	1	1.595							
022.99	Copper, Miscellaneous (ppm)	1	1	1.000							

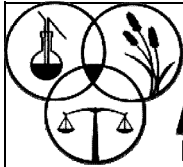
Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO ffp Robust SD	Uncertainty (U) Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
025.43	Iron, ICP, Microwave (ppm)	9	8	22.14	4.957	20.81	1.760	0.7777	8.46%	1.242	10.13%
025.41	Iron, ICP, Dry ash (ppm)	6	6	20.31	1.779	19.96	1.136	0.5798	5.69%	0.3362	10.19%
025.31	Iron, AAS, Dry ash (ppm)	3	3	23.11	3.941	23.11	3.941	2.275	17.05%	0.9000	9.97%
025.42	Iron, ICP, Open vessel (ppm)	2	2	25.91	5.523						
025.52	Iron, ICP-MS, Open vessel (ppm)	1	1	28.35							
025.53	Iron, ICP-MS, Microwave (ppm)	1	1	22.15							
025.99	Iron, Miscellaneous (ppm)	1	1	18.00							
027.41	Magnesium, ICP, Dry ash (%)	12	11	0.0937	0.0036	0.0940	0.0033	0.0012	3.46%	0.0013	5.71%
027.43	Magnesium, ICP, Microwave (%)	8	8	0.1029	0.0070	0.1031	0.0074	0.0033	7.14%	0.0043	5.63%
027.44	Magnesium, ICP, Dry ash (%)	6	6	0.0916	0.0021	0.0916	0.0024	0.0012	2.58%	0.0046	5.73%
027.42	Magnesium, ICP, Open vessel (%)	2	2	0.0963	0.0031						
027.99	Magnesium, Miscellaneous (%)	2	2	0.0900	0.0000						
027.53	Magnesium, ICP-MS, Microwave (%)	1	1	0.0935							
028.43	Manganese, ICP, Microwave (ppm)	10	10	4.434	0.9024	4.257	0.5081	0.2008	11.94%	0.3368	12.86%
028.41	Manganese, ICP, Dry ash (ppm)	6	5	3.922	0.0808	3.922	0.0808	0.0520	2.06%	0.0320	13.02%
028.31	Manganese, AAS, Dry ash (ppm)	3	3	2.695	2.277	2.695	2.277	1.610	84.50%	0.0033	13.78%
028.42	Manganese, ICP, Open vessel (ppm)	2	2	3.961	0.0552						
028.52	Manganese, ICP-MS, Open vessel (ppm)	1	1	5.080							
028.99	Manganese, Miscellaneous (ppm)	1	1	4.000							
031.41	Phosphorus, ICP, Dry ash (%)	12	12	0.2532	0.0096	0.2531	0.0107	0.0039	4.24%	0.0075	4.92%
031.43	Phosphorus, ICP, Microwave (%)	12	12	0.2750	0.0225	0.2744	0.0243	0.0088	8.84%	0.0100	4.86%
031.44	Phosphorus, ICP, Dry ash (%)	6	6	0.2444	0.0047	0.2444	0.0053	0.0027	2.17%	0.0122	4.94%
031.42	Phosphorus, ICP, Open vessel (%)	4	4	0.2594	0.0087	0.2594	0.0087	0.0043	3.35%	0.0155	4.90%
031.99	Phosphorus, Miscellaneous (%)	3	3	0.2400	0.0328	0.2400	0.0328	0.0189	13.66%	0.0067	4.96%
031.01	Phosphorus, Photometric (%)	4	2	0.2600	0.0141	0.2600	0.0141			0.0000	4.90%
031.03	Phosphorus, Autoanalyzer (%)	1	1	0.2585							
031.53	Phosphorus, ICP-MS, Microwave (%)	1	1	0.2910							
032.41	Potassium, ICP, Dry ash (%)	12	12	0.3282	0.0152	0.3280	0.0170	0.0061	5.18%	0.0118	4.73%
032.43	Potassium, ICP, Microwave (%)	8	8	0.3636	0.0262	0.3636	0.0297	0.0131	8.17%	0.0253	4.66%
032.44	Potassium, ICP, Dry ash (%)	6	6	0.3261	0.0052	0.3261	0.0059	0.0030	1.82%	0.0089	4.73%
032.42	Potassium, ICP, Open vessel (%)	3	3	0.3166	0.0236	0.3166	0.0236	0.0136	7.45%	0.0083	4.76%
032.99	Potassium, Miscellaneous (%)	2	2	0.3275	0.0035						
032.53	Potassium, ICP-MS, Microwave (%)	1	1	0.3200							
033.01	Salt as chloride, Poten Cl (%)	6	4	0.0736	0.0163	0.0736	0.0163	0.0110	22.08%	0.0005	5.92%
033.05	Salt as chloride, Ion Sel Electrode (%)	1	1	0.0755							
033.00	Salt as chloride, Sol Cl (%)	1		0.1000							
034.04	Selenium, AA, Hydride (ppm)	1	1	0.0415							
034.41	Selenium, ICP, Dry ash (ppm)	1	1	0.0100							
034.43	Selenium, ICP, Microwave (ppm)	1	1	0.9800							
034.53	Selenium, ICP-MS, Microwave (ppm)	2	1	0.0385							

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035.41	Sodium, ICP, Dry ash (%)	16	15	0.0098	0.0052	0.0098	0.0058	0.0019	59.70%	0.0021	8.03%
035.43	Sodium, ICP, Microwave (%)	7	4	0.0058	0.0048	0.0058	0.0048	0.0029	82.53%	0.0002	8.67%
035.42	Sodium, ICP, Open vessel (%)	1	1	0.0025							
035.99	Sodium, Miscellaneous (%)	2	1	0.0250							
036.43	Sulfur, ICP, Microwave (%)	7	6	0.0911	0.0110	0.0904	0.0020	0.0010	2.18%	0.0015	5.74%
036.42	Sulfur, ICP, Open vessel (%)	4	3	0.0783	0.0030	0.0783	0.0030	0.0021	3.83%	0.0001	5.87%
036.53	Sulfur, ICP-MS, Microwave (%)	1	1	0.0825							
036.99	Sulfur, Miscellaneous (%)	2	1	0.0700							
037.43	Zinc, ICP, Microwave (ppm)	11	10	18.83	1.711	18.83	1.941	0.7671	10.31%	0.9034	10.28%
037.41	Zinc, ICP, Dry ash (ppm)	6	6	18.58	2.052	18.58	2.327	1.187	12.52%	1.207	10.30%
037.31	Zinc, AAS, Dry ash (ppm)	3	3	19.49	2.060	19.49	2.060	1.189	10.57%	0.3700	10.23%
037.42	Zinc, ICP, Open vessel (ppm)	2	2	18.20	1.701						
037.99	Zinc, Miscellaneous (ppm)	2	2	17.45	2.751						
037.33	Zinc, AAS, Microwave (ppm)	1	1	17.35							
037.52	Zinc, ICP-MS, Open vessel (ppm)	1	1	20.84							
037.53	Zinc, ICP-MS, Microwave (ppm)	1	1	18.60							
038.41	Molybdenum, ICP, Dry ash (ppm)	2	2	0.3921	0.0275						
038.43	Molybdenum, ICP, Microwave (ppm)	2	2	0.4246	0.0348						
038.53	Molybdenum, ICP-MS, Microwave (ppm)	1	1	0.4815							
041.53	Vanadium, ICP-MS, Microwave (ppm)	1	1	0.0050							
101.02	Choline Chloride, LC (ppm)	1	1	793.0							
102.02	Niacin, LC (ppm)	1	1	17.31							
103.02	Pantothenic Acid, LC (ppm)	1	1	20.28							
104.03	Riboflavin, LC (ppm)	1	1	0.1250							
105.00	Thiamine, LC (ppm)	1	1	10.86							
106.02	Vitamin A, LC (KU / kg)	2	2	0.3678	0.1948						
109.02	Vitamin E, LC (IU / kg)	2	2	9.303	1.227						
112.01	Pyridoxine, LC (µg / g)	1	1	79.49							
120.00	Alanine, Post-col Ninhydrin Der (%)	2	2	0.5087	0.0019						
120.05	Alanine, Pre-col AQC Der (%)	2	2	0.4778	0.0244						
120.99	Alanine, Miscellaneous (%)	1	1	0.5100							
121.00	Arginine, Post-col Ninhydrin Der (%)	2	2	0.3171	0.0029						
121.05	Arginine, Pre-col AQC Der (%)	2	2	0.1688	0.2351						
121.99	Arginine, Miscellaneous (%)	1	1	0.3350							
122.00	Aspartic, Post-col Ninhydrin Der (%)	2	2	0.4685	0.0021						
122.05	Aspartic, Pre-col AQC Der (%)	2	2	0.4520	0.0537						
122.99	Aspartic, Miscellaneous (%)	1	1	0.4900							
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin Der (%)	3	3	0.1335	0.0337	0.1335	0.0337	0.0195	25.24%	0.0047	5.42%
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	2	2	0.2050	0.0706						
125.00	Glutamic, Post-col Ninhydrin Der (%)	2	2	1.282	0.0034						

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125.05	Glutamic, Pre-col AQC Der (%)	2	2	1.200	0.1269						
125.99	Glutamic, Miscellaneous (%)	1	1	1.235							
126.00	Glycine, Post-col Ninhydrin Der (%)	2	2	0.2771	0.0112						
126.05	Glycine, Pre-col AQC Der (%)	2	2	0.3315	0.1082						
126.99	Glycine, Miscellaneous (%)	1	1	0.2850							
127.00	Histidine, Post-col Ninhydrin Der (%)	2	2	0.1788	0.0300						
127.05	Histidine, Pre-col AQC Der (%)	2	2	0.1718	0.0117						
127.99	Histidine, Miscellaneous (%)	1	1	0.2100							
128.00	Isoleucine, Post-col Ninhydrin Der (%)	2	2	0.2712	0.0230						
128.05	Isoleucine, Pre-col AQC Der (%)	2	2	0.1943	0.0435						
128.99	Isoleucine, Miscellaneous (%)	1	1	0.2300							
129.00	Leucine, Post-col Ninhydrin Der (%)	2	2	0.8196	0.0207						
129.05	Leucine, Pre-col AQC Der (%)	2	2	0.7508	0.0414						
129.99	Leucine, Miscellaneous (%)	1	1	0.8000							
130.00	L-Lysine, Post-col Ninhydrin Der (%)	3	3	0.2204	0.0355	0.2204	0.0355	0.0251	16.10%	0.0086	5.02%
130.05	L-Lysine, Pre-col AQC Der (%)	2	2	0.1203	0.1411						
130.03	L-Lysine, Pre-col Dansyl Cl Der (%)	1	1	0.2200							
130.99	L-Lysine, Miscellaneous (%)	1	1	0.2450							
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	3	3	0.1356	0.0122	0.1356	0.0122	0.0070	8.96%	0.0048	5.40%
131.05	Methionine, PAO Pre-col AQC Der (%)	2	2	0.1472	0.0031						
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	2	2	0.3281	0.0168						
132.05	Phenylalanine, Pre-col AQC Der (%)	2	2	0.3445	0.0502						
132.99	Phenylalanine, Miscellaneous (%)	1	1	0.3200							
133.00	Proline, Post-col Ninhydrin Der (%)	2	2	0.5900	0.0354						
133.05	Proline, Pre-col AQC Der (%)	2	2	0.5843	0.0152						
133.99	Proline, Miscellaneous (%)	1	1	0.6400							
134.00	Serine, Post-col Ninhydrin Der (%)	2	2	0.3265	0.0092						
134.05	Serine, Pre-col AQC Der (%)	2	2	0.3255	0.0078						
134.99	Serine, Miscellaneous (%)	1	1	0.3400							
135.00	Threonine, Post-col Ninhydrin Der (%)	2	2	0.2460	0.0056						
135.05	Threonine, Pre-col AQC Der (%)	2	2	0.2283	0.0308						
135.99	Threonine, Miscellaneous (%)	1	1	0.2550							
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	2	2	0.0693	0.0132						
136.05	Tryptophan, Pre-col AQC Der (%)	1	1	0.0450							
136.99	Tryptophan, Miscellaneous (%)	1	1	0.0650							
137.00	Tyrosine, Post-col Ninhydrin Der (%)	2	2	0.2218	0.0520						
137.05	Tyrosine, Pre-col AQC Der (%)	2	2	0.4608	0.2344						
137.99	Tyrosine, Miscellaneous (%)	1	1	0.2100							
138.00	Valine, Post-col Ninhydrin Der (%)	2	2	0.3305	0.0064						
138.05	Valine, Pre-col AQC Der (%)	2	2	0.3088	0.0513						

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138.99	Valine, Miscellaneous (%)	1	1	0.3450							
139.00	Taurine, Post-col Ninhydrin Der (%)	1	1	0.1650							
139.05	Taurine, Pre-col AQC Der (%)	1	1	0.1275							
400.01	Water Activity, Aqualab chilled mirror (Units)	2	2	0.5670	0.0053						
516.43	Arsenic, Total, ICP, Microwave (ppm)	2	1	0.5680							
516.53	Arsenic, Total, ICP-MS, Microwave (ppm)	1		0.0100							
518.41	Cadmium, ICP, Dry ash (ppm)	2	2	0.0045	0.0007						
518.43	Cadmium, ICP, Microwave (ppm)	2	1	0.0033							
518.53	Cadmium, ICP-MS, Microwave (ppm)	1		0.0100							
520.41	Chromium, ICP, Dry ash (ppm)	2	2	0.1101	0.0189						
520.43	Chromium, ICP, Microwave (ppm)	2	2	0.1387	0.0477						
520.53	Chromium, ICP-MS, Microwave (ppm)	1	1	0.1285							
526.41	Lead, ICP, Dry ash (ppm)	2	2	0.0661	0.0743						
526.43	Lead, ICP, Microwave (ppm)	1	1	0.0059							
526.53	Lead, ICP-MS, Microwave (ppm)	2	1	0.0065							
539.41	Nickel, ICP, Dry ash (ppm)	2	2	0.2454	0.0006						
539.43	Nickel, ICP, Microwave (ppm)	1	1	0.3854							
539.53	Nickel, ICP-MS, Microwave (ppm)	1	1	0.3240							
710.99	Lauric Acid (12:0), Miscellaneous (% (w/w))	1		0.0100							
714.99	Myristic Acid (14:0), Miscellaneous (% (w/w))	1		0.0100							
716.99	Palmitic Acid (16:0), Miscellaneous (% (w/w))	1	1	0.4250							
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (% (w/w))	1		0.0100							
722.99	Stearic Acid (18:0), Miscellaneous (% (w/w))	1	1	0.0600							
724.99	Oleic Acid (9c-18:1), Miscellaneous (% (w/w))	1	1	0.9700							
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (% (w/w))	1	1	1.980							
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellaneous (% (w/w))	1	1	0.0500							
740.99	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5), Miscellaneous (% (w/w))	1		0.0100							
750.99	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6), Miscellaneous (% (w/w))	1		0.0100							
754.99	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Miscellaneous (% (w/w))	1	1	0.0500							
756.99	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Miscellaneous (% (w/w))	1	1	1.980							
772.99	Total Fatty Acids, Miscellaneous (% (w/w))	1	1	3.505							

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.



AAFCO
Proficiency Testing Program



Pet Food Ingredient Scheme
Corn
Test Material Code # 202043

Method Precision Report

Methods Reported: 20
Labs Reporting: 62
Issue Date : 09/30/2020

Method Code	Analyte and Method	Total # Labs Submitting	# Labs used in Precision Calcs	Precision Mean	Precision SD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rds	Reproducibility %RSD	sR/sr
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	21	18	11.04	0.1938	0.1321	0.1062	0.1695	1.19%	0.96%	1.53%	1.597
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	50	45	7.016	0.2743	0.1761	0.0803	0.1935	2.50%	1.14%	2.74%	2.410
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	9	9	3.830	0.0954	0.0731	0.0867	0.1134	1.91%	2.26%	2.96%	1.308
003.10	Fat, Crude, Randall, Pet Ether (%)	10	9	3.752	0.2163	0.1922	0.1405	0.2381	5.12%	3.74%	6.34%	1.694
003.14	Fat, Crude, Ankom (%)	10	9	3.738	0.2100	0.1399	0.1026	0.1735	3.79%	2.78%	4.70%	1.691
004.07	Fiber, Crude, ANKOM (%)	18	17	1.905	0.4210	0.3931	0.1155	0.4097	21.05%	6.18%	21.94%	3.548
005.00	Ash, 2h @ 600°C (%)	41	37	1.244	0.1001	0.0818	0.0353	0.0891	6.57%	2.84%	7.15%	2.522
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	8	8	2.869	0.4975	0.4900	0.1213	0.5048	17.08%	4.23%	17.60%	4.162
011.01	Loss on Drying, 135°C 2hr (%)	20	18	11.56	0.6218	0.3652	0.0715	0.3721	3.13%	0.61%	3.19%	5.205
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	12	11	4.375	0.3719	0.3855	0.0782	0.3934	8.80%	1.79%	8.98%	5.029
019.41	Calcium, ICP, Dry ash (%)	10	10	0.0096	0.0034	0.0033	0.0005	0.0034	34.68%	5.07%	35.05%	6.912
027.41	Magnesium, ICP, Dry ash (%)	12	10	0.0937	0.0036	0.0024	0.0011	0.0026	2.51%	1.18%	2.77%	2.357
027.43	Magnesium, ICP, Microwave (%)	8	8	0.1029	0.0070	0.0063	0.0043	0.0076	6.12%	4.15%	7.40%	1.781
028.43	Manganese, ICP, Microwave (ppm)	10	8	4.434	0.9024	0.3398	0.3086	0.4590	8.11%	7.37%	10.96%	1.488
031.41	Phosphorus, ICP, Dry ash (%)	12	12	0.2532	0.0096	0.0084	0.0067	0.0107	3.30%	2.64%	4.22%	1.602
031.43	Phosphorus, ICP, Microwave (%)	12	12	0.2750	0.0225	0.0215	0.0091	0.0234	7.84%	3.31%	8.51%	2.570
032.41	Potassium, ICP, Dry ash (%)	12	11	0.3282	0.0152	0.0148	0.0081	0.0169	4.49%	2.48%	5.13%	2.069
032.43	Potassium, ICP, Microwave (%)	8	8	0.3636	0.0262	0.0215	0.0212	0.0302	5.92%	5.82%	8.30%	1.427
035.41	Sodium, ICP, Dry ash (%)	16	15	0.0098	0.0052	0.0049	0.0024	0.0054	49.70%	24.55%	55.43%	2.258
037.43	Zinc, ICP, Microwave (ppm)	11	10	18.83	1.711	1.623	0.7692	1.796	8.62%	4.09%	9.54%	2.335

Notes: Precision Calculations provided for methods with 8 or more labs contributing to calculations.