

Pet Food Scheme
Bone Meal
Test Material Code # 201844

Method Summary Report
 (Precision Report Follows)

Methods Reported: 227
Labs Reporting: 55
Issue Date : 12/31/2018

Method Code	Analyte and Method	Total # Labs Submitting	# Labs 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
001.00	Loss on Drying, Vac 95°C 5 hr (%)	3	3	5.280	0.1564	5.280	0.1564	0.1382	2.96%	0.0183	3.11%
001.03	Loss on Drying, Low temp. methods (%)	2	2	5.210	0.1131						
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	14	14	5.397	0.5263	5.310	0.3799	0.1269	7.15%	0.1955	3.11%
001.08	Loss on Drying, 102°C 16 hr, in meat (%)	1	1	5.625							
001.99	Loss on Drying, Miscellaneous (%)	7	7	5.073	0.2391	5.081	0.2521	0.1191	4.96%	0.0866	3.13%
002.00	Protein, Crude, Crude (%)	1	1	53.45							
002.01	Protein, Crude, Auto Kjeh-Foss (%)	5	5	53.84	0.6604	53.84	0.6604	0.3691	1.23%	0.4172	1.36%
002.02	Protein, Crude, Semiauto Autoanalyzer (%)	1	1	60.47							
002.04	Protein, Crude, Copper Catalyst (%)	2	2	54.81	0.2475						
002.05	Protein, Crude, Copper, Boric Acid (%)	1	1	54.98							
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	46	45	54.65	1.249	54.54	0.8598	0.1602	1.58%	0.6996	1.35%
002.08	Protein, Crude, Cu/Ti (%)	2	2	54.07	0.2581						
002.11	Protein, Crude, NIR (%)	2	2	57.76	4.115						
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	1	1	12.15							
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirect (%)	1	1	11.93							
003.06	Fat, Crude, Pet Ether (%)	1	1	12.00							
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	3	3	11.16	1.335	11.16	1.335	0.9635	11.96%	0.9901	2.78%
003.10	Fat, Crude, Randall, Pet Ether (%)	9	9	11.96	0.3748	11.96	0.4250	0.1771	3.55%	0.3476	2.75%
003.11	Fat, Crude, NIR (%)	2	2	11.98	3.277						
003.12	Fat, Crude, Hexane Ext (%)	1	1	12.03							
003.13	Fat, Crude, Randall, Hexane Ext. (%)	2	2	11.89	0.2517						
003.14	Fat, Crude, Ankom (%)	3	3	12.05	0.0214	12.05	0.0214	0.0154	0.18%	0.1211	2.75%
003.99	Fat, Crude, Miscellaneous (%)	1	1	6.050							
004.00	Fiber, Crude, Asbestos Free (%)	6	5	1.545	0.5803	1.545	0.5803	0.3499	37.56%	0.0120	3.75%
004.06	Fiber, Crude, Fibertec (%)	1	1	1.233							
004.07	Fiber, Crude, ANKOM (%)	15	15	2.017	0.7936	2.017	0.8991	0.2902	44.58%	0.2997	3.60%
004.99	Fiber, Crude, Miscellaneous (%)	1	1	0.4000							
005.00	Ash, 2h @ 600°C (%)	37	35	23.54	0.4219	23.53	0.4530	0.0957	1.93%	0.3764	2.06%
005.03	Ash, Microwave furnace (%)	1	1	23.90							
005.05	Ash, 3h @ 550°C (%)	6	6	23.85	0.3567	23.84	0.4045	0.2064	1.70%	0.3358	2.05%
005.11	Ash, NIR (%)	2	2	19.57	10.47						
005.99	Ash, Miscellaneous (%)	4	4	24.34	0.8933	24.34	0.8933	0.5583	3.67%	0.4465	2.03%

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006.00	Total Sugars, As sucrose (%)	1	1	0.2350							
008.02	Fiber, Acid Detergent, Crucible (%)	2	2	3.100	0.9835						
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	5	5	4.448	0.9296	4.448	0.9296	0.5197	20.90%	0.3828	3.20%
008.99	Fiber, Acid Detergent, Miscellaneous (%)	1	1	1.655							
009.04	Fiber, Neutral Detergent, Neutral Det-No ENZ Pretreat (%)	1	1	28.80							
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	1	1	19.22							
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	4	4	25.51	3.178	25.51	3.178	1.986	12.46%	2.902	1.98%
009.99	Fiber, Neutral Detergent, Miscellaneous (%)	1	1	10.63							
010.11	Moisture, NIR (%)	2	2	6.048	1.828						
010.99	Moisture, Miscellaneous (%)	6	6	5.602	0.2572	5.562	0.1938	0.0989	3.48%	0.0947	3.09%
011.01	Loss on Drying, 135°C 2hr (%)	20	19	5.811	0.4509	5.882	0.1927	0.0553	3.28%	0.1364	3.06%
011.02	Loss on Drying, 130°C for 2 hours (%)	1	1	5.710							
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	1	1	1.076							
012.03	Starch, Enzymatic-Colorimetric Method, Miscellaneous (%)	2	1	0.7950							
012.04	Starch, Enzymatic-Enzyme Membrane Technology (YSI) (%)	1	1	0.9000							
012.11	Starch, NIR (%)	1	1	5.740							
012.99	Starch, Miscellaneous (%)	1	1	0.5750							
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	7	7	13.01	0.7803	13.01	0.8849	0.4181	6.80%	0.3714	2.72%
013.02	Fat, Acid Pretreat, Mojonier, Bak Ext (%)	13	13	13.46	0.6945	13.51	0.6686	0.2318	4.95%	0.2638	2.70%
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	4	4	12.46	0.7131	12.46	0.7131	0.4457	5.72%	0.1775	2.74%
013.13	Fat, Acid Pretreat, Ankom- Acid Hydrolysis (%)	3	3	12.00	2.189	12.00	2.189	1.580	18.23%	0.7196	2.75%
015.41	Aluminum, ICP, Dry ash (mg / kg (ppm))	1	1	462.2							
015.43	Aluminum, ICP, Microwave (mg / kg (ppm))	1	1	26.00							
017.43	Boron, ICP, Microwave (mg / kg (ppm))	1	1	2.200							
019.00	Calcium, Ox-Mn04 Vol. (%)	1	1	8.685							
019.31	Calcium, AAS, Dry ash (%)	1	1	8.360							
019.41	Calcium, ICP, Dry ash (%)	10	10	8.039	0.4409	7.950	0.2369	0.0937	2.98%	0.3240	2.93%
019.42	Calcium, ICP, Open vessel (%)	2	2	7.942	0.2938						
019.43	Calcium, ICP, Microwave (%)	11	11	8.029	0.4077	7.992	0.3707	0.1397	4.64%	0.3888	2.93%
019.44	Calcium, ICP, Dry ash (%)	6	6	8.014	0.2281	8.014	0.2587	0.1320	3.23%	0.2650	2.92%
019.52	Calcium, ICP-MS, Open vessel (%)	1	1	9.745							
019.99	Calcium, Miscellaneous (%)	3	3	6.808	2.512	6.808	2.512	1.813	36.89%	0.4900	3.00%
021.41	Cobalt, ICP, Dry ash (mg / kg (ppm))	2	2	0.1508	0.1411						
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	3	2	0.1690	0.0368	0.1690	0.0368			0.0261	20.90%
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	9	9	30.94	1.846	30.82	1.803	0.7511	5.85%	1.272	9.55%
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	2	2	33.97	1.368						
022.43	Copper, ICP, Microwave (mg / kg (ppm))	10	10	31.32	4.178	31.85	3.336	1.319	10.47%	0.7335	9.50%
022.44	Copper, ICP, Dry ash (mg / kg (ppm))	1	1	25.77							
022.52	Copper, ICP-MS, Open vessel (mg / kg (ppm))	1	1	26.53							
022.99	Copper, Miscellaneous (mg / kg (ppm))	1	1	23.55							

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025.31	Iron, AAS, Dry ash (mg / kg (ppm))	1	1	421.7							
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	10	10	437.8	39.69	435.8	40.34	15.95	9.26%	16.53	6.41%
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	2	2	415.1	14.07						
025.43	Iron, ICP, Microwave (mg / kg (ppm))	10	10	445.9	39.90	441.2	31.82	12.58	7.21%	23.02	6.40%
025.52	Iron, ICP-MS, Open vessel (mg / kg (ppm))	1	1	462.9							
025.99	Iron, Miscellaneous (mg / kg (ppm))	1	1	302.5							
027.31	Magnesium, AAS, Dry ash (%)	2	2	0.2281	0.0211						
027.41	Magnesium, ICP, Dry ash (%)	10	10	0.2222	0.0108	0.2223	0.0121	0.0048	5.46%	0.0074	5.02%
027.42	Magnesium, ICP, Open vessel (%)	2	2	0.2227	0.0174						
027.43	Magnesium, ICP, Microwave (%)	10	10	0.2262	0.0090	0.2259	0.0069	0.0027	3.04%	0.0063	5.00%
027.44	Magnesium, ICP, Dry ash (%)	6	6	0.3506	0.3137	0.2332	0.0348	0.0178	14.95%	0.0032	4.98%
027.52	Magnesium, ICP-MS, Open vessel (%)	1	1	0.2340							
027.99	Magnesium, Miscellaneous (%)	2	2	0.2058	0.0223						
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	2	2	19.56	1.314						
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	9	9	18.70	1.929	18.79	1.944	0.8098	10.34%	0.4804	10.29%
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	2	2	17.56	2.033						
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	10	10	19.70	1.601	19.78	1.630	0.6442	8.24%	0.9919	10.21%
028.44	Manganese, ICP, Dry ash (mg / kg (ppm))	1	1	14.30							
028.52	Manganese, ICP-MS, Open vessel (mg / kg (ppm))	1	1	17.80							
028.99	Manganese, Miscellaneous (mg / kg (ppm))	1	1	15.25							
031.01	Phosphorus, Photometric (%)	6	6	4.048	0.0783	4.048	0.0888	0.0453	2.19%	0.1200	3.24%
031.03	Phosphorus, Autoanalyzer (%)	1	1	4.082							
031.41	Phosphorus, ICP, Dry ash (%)	10	10	3.969	0.1945	3.969	0.2205	0.0872	5.56%	0.1761	3.25%
031.42	Phosphorus, ICP, Open vessel (%)	2	2	3.915	0.3755						
031.43	Phosphorus, ICP, Microwave (%)	11	11	4.204	0.2102	4.204	0.2383	0.0898	5.67%	0.1789	3.22%
031.44	Phosphorus, ICP, Dry ash (%)	2	2	4.000	0.1697						
031.99	Phosphorus, Miscellaneous (%)	3	3	3.182	1.153	3.182	1.153	0.8320	36.23%	0.2433	3.36%
032.31	Potassium, AAS, Dry ash (%)	1	1	0.5395							
032.41	Potassium, ICP, Dry ash (%)	10	10	0.5414	0.0345	0.5414	0.0391	0.0155	7.22%	0.0209	4.39%
032.42	Potassium, ICP, Open vessel (%)	2	2	0.5547	0.0500						
032.43	Potassium, ICP, Microwave (%)	11	11	0.5561	0.0339	0.5539	0.0334	0.0126	6.03%	0.0160	4.37%
032.44	Potassium, ICP, Dry ash (%)	6	6	0.6430	0.1973	0.5800	0.0175	0.0089	3.02%	0.0137	4.34%
032.99	Potassium, Miscellaneous (%)	3	2	0.5103	0.0053	0.5103	0.0053			0.0115	4.43%
033.00	Salt as chloride, Sol Cl (%)	1	1	0.5532							
033.01	Salt as chloride, Poten Cl (%)	5	5	0.5480	0.0247	0.5480	0.0247	0.0138	4.50%	0.0044	4.38%
033.03	Salt as chloride, Quantab (%)	1	1	0.4700							
033.05	Salt as chloride, Ion Sel Electrode (%)	1	1	0.3950							
034.04	Selenium, AA, Hydride (mg / kg (ppm))	1	1	0.7990							
034.43	Selenium, ICP, Microwave (mg / kg (ppm))	2	2	1.213	0.1025						
034.52	Selenium, ICP-MS, Open vessel (mg / kg (ppm))	1	1	0.6600							

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034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	3	3	0.9908	0.1388	0.9908	0.1388	0.1002	14.01%	0.0650	16.02%
035.41	Sodium, ICP, Dry ash (%)	16	16	0.5636	0.0485	0.5722	0.0336	0.0105	5.87%	0.0187	4.35%
035.42	Sodium, ICP, Open vessel (%)	2	2	0.5834	0.0517						
035.43	Sodium, ICP, Microwave (%)	10	10	0.5972	0.0496	0.5879	0.0292	0.0116	4.98%	0.0156	4.33%
035.99	Sodium, Miscellaneous (%)	1	1	0.1250							
036.04	Sulfur, LECO (%)	1	1	0.4770							
036.42	Sulfur, ICP, Open vessel (%)	5	5	0.4914	0.0221	0.4914	0.0221	0.0124	4.50%	0.0108	4.45%
036.43	Sulfur, ICP, Microwave (%)	7	7	0.6016	0.1124	0.6016	0.1274	0.0602	21.18%	0.0084	4.32%
036.99	Sulfur, Miscellaneous (%)	1	1	0.6450							
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	1	1	158.8							
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	9	9	151.4	8.998	152.9	6.030	2.512	3.94%	5.424	7.50%
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	2	2	137.1	18.21						
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	10	10	158.4	12.61	159.6	11.25	4.447	7.05%	3.015	7.46%
037.44	Zinc, ICP, Dry ash (mg / kg (ppm))	1	1	129.6							
037.52	Zinc, ICP-MS, Open vessel (mg / kg (ppm))	1	1	177.2							
037.99	Zinc, Miscellaneous (mg / kg (ppm))	2	2	122.7	10.90						
038.41	Molybdenum, ICP, Dry ash (mg / kg (ppm))	1	1	0.3175							
038.43	Molybdenum, ICP, Microwave (mg / kg (ppm))	1	1	0.6300							
038.53	Molybdenum, ICP-MS, Microwave (mg / kg (ppm))	1	1	0.4360							
042.00	Chloride, Titrimetric (%)	1	1	0.3535							
101.02	Choline Chloride, LC (mg / kg (ppm))	1	1	1,946							
102.02	Niacin, LC (mg / kg (ppm))	1	1	6.295							
103.02	Pantothenic Acid, LC (mg / kg (ppm))	1	1	16.04							
104.03	Riboflavin, LC (mg / kg (ppm))	1	1	1.250							
105.00	Thiamine, LC (mg / kg (ppm))	1	1	18.43							
106.02	Vitamin A, LC (KU / kg)	1	1	0.1350							
107.00	Vitamin B12, Microbiological (µg / kg (ppb))	1	1	131.0							
109.02	Vitamin E, LC (IU / kg)	1	1	2.085							
112.01	Pyridoxine, LC (µg / g)	1	1	14.99							
120.00	Alanine, Post-col Ninhydrin Der (%)	5	5	3.885	0.1164	3.885	0.1164	0.0651	3.00%	0.0610	3.26%
120.05	Alanine, Pre-col AQC Der (%)	2	2	3.358	0.3207						
120.99	Alanine, Miscellaneous (%)	1	1	3.155							
121.00	Arginine, Post-col Ninhydrin Der (%)	5	4	3.733	0.0965	3.733	0.0965	0.0603	2.59%	0.0659	3.28%
121.05	Arginine, Pre-col AQC Der (%)	2	2	3.478	0.1301						
121.99	Arginine, Miscellaneous (%)	1	1	0.8500							
122.00	Aspartic, Post-col Ninhydrin Der (%)	5	5	4.206	0.1788	4.206	0.1788	0.0999	4.25%	0.0573	3.22%
122.05	Aspartic, Pre-col AQC Der (%)	2	2	3.816	0.7131						
122.99	Aspartic, Miscellaneous (%)	1	1	4.075							
124.00	Cysteine/Cystine, PAO Post-col Ninhydry (%)	5	5	0.5355	0.1050	0.5355	0.1050	0.0587	19.61%	0.0208	4.39%
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	2	2	0.4343	0.2486						

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124.99	Cysteine/Cystine, Miscellaneous (%)	1	1	4.665							
125.00	Glutamic, Post-col Ninhydrin Der (%)	5	5	6.781	0.6377	6.781	0.6377	0.3565	9.40%	0.0781	3.00%
125.05	Glutamic, Pre-col AQC Der (%)	2	2	6.089	0.7304						
125.99	Glutamic, Miscellaneous (%)	1	1	6.810							
126.00	Glycine, Post-col Ninhydrin Der (%)	5	5	6.521	0.2394	6.521	0.2394	0.1338	3.67%	0.1055	3.02%
126.05	Glycine, Pre-col AQC Der (%)	2	2	6.169	0.0060						
126.99	Glycine, Miscellaneous (%)	1	1	2.455							
127.00	Histidine, Post-col Ninhydrin Der (%)	5	5	1.107	0.1019	1.107	0.1019	0.0569	9.20%	0.0311	3.94%
127.05	Histidine, Pre-col AQC Der (%)	2	2	1.013	0.0308						
127.99	Histidine, Miscellaneous (%)	1	1	3.120							
128.00	Isoleucine, Post-col Ninhydrin Der (%)	5	5	1.635	0.0867	1.635	0.0867	0.0485	5.30%	0.0459	3.71%
128.05	Isoleucine, Pre-col AQC Der (%)	2	2	1.529	0.1001						
128.99	Isoleucine, Miscellaneous (%)	1	1	3.685							
129.00	Leucine, Post-col Ninhydrin Der (%)	5	5	3.385	0.1341	3.385	0.1341	0.0750	3.96%	0.0656	3.33%
129.05	Leucine, Pre-col AQC Der (%)	2	2	3.113	0.2652						
129.99	Leucine, Miscellaneous (%)	1	1	1.175							
130.00	L-Lysine, Post-col Ninhydrin Der (%)	5	5	3.021	0.2680	3.021	0.2680	0.1498	8.87%	0.0614	3.39%
130.05	L-Lysine, Pre-col AQC Der (%)	2	2	2.726	0.4094						
130.99	L-Lysine, Miscellaneous (%)	1	1	2.355							
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	5	5	0.7856	0.1231	0.7856	0.1231	0.0688	15.66%	0.0255	4.15%
131.05	Methionine, PAO Pre-col AQC Der (%)	2	2	0.8351	0.1271						
131.99	Methionine, Miscellaneous (%)	1	1	2.100							
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	5	5	1.894	0.0891	1.894	0.0891	0.0498	4.71%	0.0451	3.63%
132.05	Phenylalanine, Pre-col AQC Der (%)	2	2	1.709	0.1294						
132.99	Phenylalanine, Miscellaneous (%)	1	1	1.770							
133.00	Proline, Post-col Ninhydrin Der (%)	5	5	4.041	0.1765	4.041	0.1765	0.0987	4.37%	0.0444	3.24%
133.05	Proline, Pre-col AQC Der (%)	2	2	3.792	0.0682						
133.99	Proline, Miscellaneous (%)	1	1	3.260							
134.00	Serine, Post-col Ninhydrin Der (%)	5	5	2.182	0.1916	2.182	0.1916	0.1071	8.78%	0.0448	3.56%
134.05	Serine, Pre-col AQC Der (%)	2	2	2.116	0.3666						
134.99	Serine, Miscellaneous (%)	1	1	3.270							
135.00	Threonine, Post-col Ninhydrin Der (%)	5	5	1.883	0.1077	1.883	0.1077	0.0602	5.72%	0.0462	3.64%
135.05	Threonine, Pre-col AQC Der (%)	2	2	1.607	0.2309						
135.99	Threonine, Miscellaneous (%)	1	1	3.645							
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	3	3	0.3838	0.0493	0.3838	0.0493	0.0356	12.84%	0.0082	4.62%
136.05	Tryptophan, Pre-col AQC Der (%)	1	1	0.3400							
136.99	Tryptophan, Miscellaneous (%)	2	2	0.3075	0.0955						
137.00	Tyrosine, Post-col Ninhydrin Der (%)	4	4	1.362	0.1561	1.362	0.1561	0.0976	11.46%	0.0386	3.82%
137.05	Tyrosine, Pre-col AQC Der (%)	2	2	1.370	0.2482						
137.99	Tyrosine, Miscellaneous (%)	1	1	0.2500							

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138.00	Valine, Post-col Ninhydrin Der (%)	5	5	2.343	0.1065	2.343	0.1065	0.0595	4.54%	0.0497	3.52%
138.05	Valine, Pre-col AQC Der (%)	2	2	2.155	0.2118						
138.99	Valine, Miscellaneous (%)	1	1	0.4550							
139.00	Taurine, Post-col Ninhydrin Der (%)	2	2	0.1150	0.0141						
139.05	Taurine, Pre-col AQC Der (%)	1	1	0.1215							
139.99	Taurine, Miscellaneous (%)	1	1	0.2600							
400.01	Water Activity, Aqualab chilled mirror (Units)	1	1	0.4478							
400.99	Water Activity, Miscellaneous (Units)	1	1	0.4450							
412.01	Starch, Dietary, Enzymatic-Colorimetric (%)	1	1	0.9000							
516.00	Arsenic, Total, AA, Hydride (mg / kg (ppm))	1	1	0.0610							
516.43	Arsenic, Total, ICP, Microwave (mg / kg (ppm))	2	1	2.466							
516.53	Arsenic, Total, ICP-MS, Microwave (mg / kg (ppm))	1	1	0.0550							
518.41	Cadmium, ICP, Dry ash (mg / kg (ppm))	1		0.0500							
518.43	Cadmium, ICP, Microwave (mg / kg (ppm))	1		0.1600							
518.53	Cadmium, ICP-MS, Microwave (mg / kg (ppm))	1	1	0.0195							
520.41	Chromium, ICP, Dry ash (mg / kg (ppm))	1	1	8.195							
520.43	Chromium, ICP, Microwave (mg / kg (ppm))	1	1	2.320							
526.41	Lead, ICP, Dry ash (mg / kg (ppm))	1	1	2.609							
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	1	1	1.800							
539.41	Nickel, ICP, Dry ash (mg / kg (ppm))	1	1	2.634							
710.99	Lauric Acid (12:0), Miscellaneous (%) (w/w)	2	2	0.0148	0.0067						
714.99	Myristic Acid (14:0), Miscellaneous (%) (w/w)	1	1	0.1800							
716.99	Palmitic Acid (16:0), Miscellaneous (%) (w/w)	1	1	3.220							
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (%) (w/w)	2	2	0.2268	0.0046						
722.99	Stearic Acid (18:0), Miscellaneous (%) (w/w)	1	1	2.095							
724.99	Oleic Acid (9c-18:1), Miscellaneous (%) (w/w)	1	1	3.970							
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (%) (w/w)	2	2	0.5595	0.0347						
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellaneous (%) (w/w)	2	2	0.0090	0.0014						
736.99	Arachidonic Acid (5c,8c,11c,14c-20:4), Miscellaneous (%) (w/w)	1	1	0.0435							
740.99	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5), Miscellaneous (%) (w/w)	2		0.0000							
746.99	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5), Miscellaneous (%) (w/w)	1		0.0000							
750.99	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6), Miscellaneous (%) (w/w)	2		0.0000							
754.99	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Miscellaneous (%) (w/w)	2	2	0.0128	0.0039						
756.99	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Miscellaneous (%) (w/w)	2	2	0.6433	0.0661						
772.99	Total Fatty Acids, Miscellaneous (%) (w/w)	1	1	10.40							

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.



Pet Food Scheme

Method Precision Report

Methods Reported: 25

Bone Meal

Labs Reporting: 55

Test Material Code # 201844

Issue Date : 12/31/2018

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 %rsd	Reproducibility %RSD	sR/sr
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	14	13	5.397	0.5263	0.3565	0.1562	0.3892	6.73%	2.95%	7.35%	2.492
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	46	42	54.65	1.249	0.7472	0.5543	0.9303	1.37%	1.02%	1.71%	1.678
003.10	Fat, Crude, Randall, Pet Ether (%)	9	9	11.96	0.3748	0.3069	0.3043	0.4322	2.57%	2.54%	3.61%	1.420
004.07	Fiber, Crude, ANKOM (%)	15	14	2.017	0.7936	0.7567	0.2456	0.7955	38.82%	12.60%	40.82%	3.240
005.00	Ash, 2h @ 600°C (%)	37	34	23.54	0.4219	0.3458	0.3308	0.4785	1.47%	1.40%	2.03%	1.447
011.01	Loss on Drying, 135°C 2hr (%)	20	18	5.811	0.4509	0.1668	0.0845	0.1870	2.82%	1.43%	3.17%	2.213
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	13	13	13.46	0.6945	0.6736	0.2395	0.7149	5.00%	1.78%	5.31%	2.985
019.41	Calcium, ICP, Dry ash (%)	10	9	8.039	0.4409		0.2996			3.79%		
019.43	Calcium, ICP, Microwave (%)	11	10	8.029	0.4077	0.1994	0.2870	0.3494	2.51%	3.62%	4.40%	1.218
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	9	9	30.94	1.846	1.661	1.138	2.013	5.37%	3.68%	6.51%	1.769
022.43	Copper, ICP, Microwave (mg / kg (ppm))	10	8	31.32	4.178	2.504	0.4398	2.543	7.66%	1.35%	7.78%	5.782
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	10	10	437.8	39.69	38.19	15.26	41.13	8.72%	3.49%	9.39%	2.695
025.43	Iron, ICP, Microwave (mg / kg (ppm))	10	9	445.9	39.90	21.82	15.58	26.81	5.01%	3.58%	6.16%	1.721
027.41	Magnesium, ICP, Dry ash (%)	10	10	0.2222	0.0108	0.0095	0.0074	0.0120	4.28%	3.32%	5.42%	1.630
027.43	Magnesium, ICP, Microwave (%)	10	10	0.2262	0.0090	0.0079	0.0062	0.0100	3.48%	2.75%	4.44%	1.614
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	9	9	18.70	1.929	1.896	0.4957	1.960	10.14%	2.65%	10.48%	3.954
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	10	10	19.70	1.601	1.468	0.9034	1.724	7.45%	4.59%	8.75%	1.908
031.41	Phosphorus, ICP, Dry ash (%)	10	10	3.969	0.1945	0.1635	0.1488	0.2211	4.12%	3.75%	5.57%	1.486
031.43	Phosphorus, ICP, Microwave (%)	11	10	4.204	0.2102	0.1751	0.1268	0.2162	4.20%	3.04%	5.18%	1.706
032.41	Potassium, ICP, Dry ash (%)	10	10	0.5414	0.0345	0.0315	0.0198	0.0372	5.82%	3.67%	6.87%	1.875
032.43	Potassium, ICP, Microwave (%)	11	11	0.5561	0.0339	0.0321	0.0152	0.0355	5.78%	2.73%	6.39%	2.344
035.41	Sodium, ICP, Dry ash (%)	16	15	0.5636	0.0485	0.0492	0.0142	0.0512	8.72%	2.52%	9.08%	3.608
035.43	Sodium, ICP, Microwave (%)	10	9	0.5972	0.0496	0.0200	0.0129	0.0237	3.42%	2.21%	4.07%	1.845
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	9	8	151.4	8.998	2.624	4.955	5.608	1.70%	3.22%	3.64%	1.132
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	10	9	158.4	12.61	8.197	2.826	8.671	5.08%	1.75%	5.37%	3.068

Notes: Precision Calculations provided for methods with 8 or more labs used in calculations.