

**Pet Food Scheme**  
**Brewers Dried Yeast**  
**Test Material Code # 201843**

**Method Summary Report**  
 (Precision Report Follows)

**# Methods Reported: 236**  
**# Labs Reporting: 49**  
**Issue Date : 09/30/2018**

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	5.4477	0.23351	5.4477	0.23351	0.16852	4.29%	0.12333	3.10%
001.03	Loss on Drying, Low temp. methods (%)	2	2	5.4950	1.0536						
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	11	11	5.4524	0.42592	5.4680	0.44737	0.16861	8.18%	0.23045	3.10%
001.99	Loss on Drying, Miscellaneous (%)	7	7	5.3729	0.50432	5.3729	0.57190	0.27020	10.64%	0.12800	3.11%
002.00	Protein, Crude, Crude (%)	1	1	42.940							
002.01	Protein, Crude, Auto Kjeld-Foss (%)	4	4	44.300	0.24107	44.300	0.24107	0.15067	0.54%	0.11675	1.50%
002.02	Protein, Crude, Semiauto Autoanalyzer (%)	1	1	44.135							
002.04	Protein, Crude, Copper Catalyst (%)	2	2	44.740	0.15556						
002.05	Protein, Crude, Copper, Boric Acid (%)	1	1	44.804							
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	40	39	44.582	0.48337	44.613	0.36684	0.07343	0.82%	0.20813	1.50%
002.08	Protein, Crude, Cu/Ti (%)	1	1	44.550							
002.99	Protein, Crude, Miscellaneous (%)	1	1	44.970							
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2	2	0.48528	0.40980						
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirect (%)	1	1	4.2600							
003.06	Fat, Crude, Pet Ether (%)	3	3	3.3883	5.2938	3.3883	5.2938	3.8205	156.24%	0.05667	3.33%
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	2	2	0.49868	0.12541						
003.10	Fat, Crude, Randall, Pet Ether (%)	6	6	0.40137	0.17577	0.37443	0.13264	0.06769	35.42%	0.05447	4.64%
003.12	Fat, Crude, Hexane Ext (%)	1	1	0.47000							
003.13	Fat, Crude, Randall, Hexane Ext. (%)	2	2	0.34520	0.21949						
003.14	Fat, Crude, Ankom (%)	6	6	0.38851	0.20430	0.37890	0.20897	0.10664	55.15%	0.04525	4.63%
003.99	Fat, Crude, Miscellaneous (%)	1	1	1.1500							
004.00	Fiber, Crude, Asbestos Free (%)	5	5	3.2198	2.8159	3.2198	2.8159	1.5741	87.46%	0.36728	3.35%
004.03	Fiber, Crude, Fritted Glass (%)	3	3	1.7517	1.8460	1.7517	1.8460	1.3322	105.38%	0.05000	3.68%
004.06	Fiber, Crude, Fibertec (%)	4	3	0.70617	0.31947	0.70617	0.31947	0.23056	45.24%	0.17167	4.21%
004.07	Fiber, Crude, ANKOM (%)	9	7	1.0883	1.7871	0.50392	0.34677	0.16383	68.81%	0.07253	4.43%
005.00	Ash, 2h @ 600°C (%)	30	30	5.7846	1.0345	5.6965	0.90707	0.20701	15.92%	0.23566	3.08%
005.03	Ash, Microwave furnace (%)	1	1	4.8200							
005.05	Ash, 3h @ 550°C (%)	5	5	5.2310	0.48989	5.2310	0.48989	0.27386	9.37%	0.19400	3.12%
005.99	Ash, Miscellaneous (%)	3	3	5.9815	1.2679	5.9815	1.2679	0.91503	21.20%	0.08567	3.06%
006.00	Total Sugars, As sucrose (%)	1	1	0.41500							
008.02	Fiber, Acid Detergent, Crucible (%)	4	3	1.2844	0.34365	1.2844	0.34365	0.24801	26.76%	0.21693	3.85%
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	6	6	1.3625	1.8001	0.83314	0.64733	0.33034	77.70%	0.08227	4.11%

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009.04	Fiber, Neutral Detergent, Neutral Det-No ENZ Pretreat (%)	1	1	3.3000							
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	3	3	3.3345	2.2725	3.3345	2.2725	1.6400	68.15%	0.15077	3.34%
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	4	3	0.58783	0.52720	0.58783	0.52720	0.38047	89.69%	0.13447	4.33%
010.03	Moisture, Karl-Fischer (%)	1	1	5.4950							
010.99	Moisture, Miscellaneous (%)	3	3	6.0550	0.59209	6.0550	0.59209	0.42730	9.78%	0.03667	3.05%
011.01	Loss on Drying, 135°C 2hr (%)	20	19	7.7085	0.65237	7.6892	0.67571	0.19377	8.79%	0.11637	2.94%
011.02	Loss on Drying, 130°C for 2 hours (%)	1	1	6.7250							
012.00	Starch, Polarimetric (Ewers) (%)	3	3	3.4767	0.21595	3.4767	0.21595	0.15585	6.21%	0.24000	3.32%
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	2	2	1.1700	0.31113						
012.03	Starch, Enzymatic-Colorimetric Method, Miscellaneous (%)	3	3	1.4517	0.53133	1.4517	0.53133	0.38345	36.60%	0.09000	3.78%
012.04	Starch, Enzymatic-Enzyme Membrane Technology (YSI) (%)	1	1	0.80000							
012.99	Starch, Miscellaneous (%)	1	1	24.540							
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	5	4	9.2846	2.0225	9.2846	2.0225	1.2641	21.78%	0.26773	2.86%
013.02	Fat, Acid Pretreat, Mojonier, Bak Ext (%)	12	12	9.5049	1.0662	9.5649	1.0662	0.38475	11.15%	0.18208	2.85%
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	4	4	3.2488	4.3004	3.2488	4.3004	2.6878	132.37%	0.13750	3.35%
013.13	Fat, Acid Pretreat, Ankom- Acid Hydrolysis (%)	3	3	5.3352	2.8875	5.3352	2.8875	2.5522	54.12%	0.85220	3.11%
015.41	Aluminum, ICP, Dry ash (mg / kg (ppm))	1	1	170.85							
015.43	Aluminum, ICP, Microwave (mg / kg (ppm))	1	1	7.5000							
017.43	Boron, ICP, Microwave (mg / kg (ppm))	1	1	2.0000							
019.00	Calcium, Ox-Mn04 Vol. (%)	1	1	0.04350							
019.31	Calcium, AAS, Dry ash (%)	3	2	0.05698	0.00286	0.05698	0.00286			0.01085	6.16%
019.41	Calcium, ICP, Dry ash (%)	9	8	0.05430	0.00592	0.05430	0.00671	0.00296	12.35%	0.00213	6.20%
019.42	Calcium, ICP, Open vessel (%)	2	2	0.05070	0.00099						
019.43	Calcium, ICP, Microwave (%)	10	9	0.05742	0.00736	0.05741	0.00833	0.00347	14.50%	0.00576	6.15%
019.44	Calcium, ICP, Dry ash (%)	2	2	0.06000	0.00000						
019.52	Calcium, ICP-MS, Open vessel (%)	1	1	0.05350							
019.99	Calcium, Miscellaneous (%)	2	2	0.06175	0.01167						
021.31	Cobalt, AAS, Dry ash (mg / kg (ppm))	1	1	0.75000							
021.41	Cobalt, ICP, Dry ash (mg / kg (ppm))	1	1	0.05000							
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	1	1	5.0000							
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	6	6	4.4121	1.5007	4.4121	1.7018	0.86844	38.57%	0.64173	12.79%
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	2	2	7.7798	5.2612						
022.43	Copper, ICP, Microwave (mg / kg (ppm))	10	9	6.4736	6.4282	4.4941	0.82706	0.34461	18.40%	0.34053	12.76%
022.52	Copper, ICP-MS, Open vessel (mg / kg (ppm))	1	1	5.1850							
022.99	Copper, Miscellaneous (mg / kg (ppm))	1	1	4.0000							
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	1	1	39.362							
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	10	10	45.306	5.3572	45.150	5.7248	2.2629	12.68%	3.2363	9.02%
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	2	2	46.215	1.8173						
025.43	Iron, ICP, Microwave (mg / kg (ppm))	9	8	62.193	48.085	46.589	6.2406	2.7580	13.40%	2.7315	8.97%
025.52	Iron, ICP-MS, Open vessel (mg / kg (ppm))	1	1	47.055							

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025.99	Iron, Miscellaneous (mg / kg (ppm))	2	2	45.925	2.7224						
027.31	Magnesium, AAS, Dry ash (%)	3	3	0.15685	0.05185	0.15685	0.05185	0.03742	33.06%	0.00757	5.29%
027.41	Magnesium, ICP, Dry ash (%)	9	9	0.17016	0.00979	0.17101	0.00902	0.00376	5.28%	0.00552	5.22%
027.42	Magnesium, ICP, Open vessel (%)	2	2	0.17473	0.00746						
027.43	Magnesium, ICP, Microwave (%)	11	11	0.17968	0.01103	0.17883	0.00880	0.00332	4.92%	0.00652	5.18%
027.44	Magnesium, ICP, Dry ash (%)	3	3	0.45497	0.48944	0.45497	0.48944	0.35322	107.58%	0.00207	4.50%
027.52	Magnesium, ICP-MS, Open vessel (%)	1	1	0.18700							
027.99	Magnesium, Miscellaneous (%)	2	2	0.17775	0.01096						
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	1	1	10.954							
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	9	8	11.520	1.3216	11.520	1.4987	0.66236	13.01%	0.42446	11.07%
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	2	2	12.690	2.5597						
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	10	9	12.817	1.9867	12.488	1.3677	0.56989	10.95%	0.34768	10.94%
028.44	Manganese, ICP, Dry ash (mg / kg (ppm))	1	1	10.215							
028.52	Manganese, ICP-MS, Open vessel (mg / kg (ppm))	1	1	12.040							
028.99	Manganese, Miscellaneous (mg / kg (ppm))	2	2	11.375	0.53033						
031.01	Phosphorus, Photometric (%)	4	4	0.98975	0.07583	0.98975	0.07583	0.04739	7.66%	0.06800	4.01%
031.03	Phosphorus, Autoanalyzer (%)	1	1	1.0415							
031.41	Phosphorus, ICP, Dry ash (%)	9	9	1.0533	0.07485	1.0533	0.08487	0.03536	8.06%	0.03252	3.97%
031.42	Phosphorus, ICP, Open vessel (%)	3	3	1.0900	0.04444	1.0900	0.04444	0.03207	4.08%	0.02933	3.95%
031.43	Phosphorus, ICP, Microwave (%)	11	11	1.1170	0.05014	1.1143	0.05042	0.01900	4.52%	0.03162	3.94%
031.44	Phosphorus, ICP, Dry ash (%)	2	2	0.59850	0.61023						
031.99	Phosphorus, Miscellaneous (%)	2	2	1.0625	0.04596						
032.02	Potassium, Flame Emission (%)	1	1	1.0650							
032.31	Potassium, AAS, Dry ash (%)	2	2	0.88350	0.29204						
032.41	Potassium, ICP, Dry ash (%)	9	9	1.0425	0.06143	1.0462	0.06074	0.02531	5.81%	0.04080	3.97%
032.42	Potassium, ICP, Open vessel (%)	3	3	1.0677	0.02250	1.0677	0.02250	0.01624	2.11%	0.02000	3.96%
032.43	Potassium, ICP, Microwave (%)	11	10	1.0502	0.06978	1.0502	0.07913	0.03128	7.54%	0.02847	3.97%
032.44	Potassium, ICP, Dry ash (%)	3	3	0.65120	0.44272	0.65120	0.44272			0.00347	4.27%
032.99	Potassium, Miscellaneous (%)	3	3	1.0015	0.10048	1.0015	0.10048	0.07252	10.03%	0.00700	4.00%
033.00	Salt as chloride, Sol Cl (%)	2	2	0.12515	0.06385						
033.01	Salt as chloride, Poten Cl (%)	6	6	0.20750	0.04022	0.20750	0.04561	0.02327	21.98%	0.00333	5.07%
034.04	Selenium, AA, Hydride (mg / kg (ppm))	2	2	0.23333	0.05618						
034.43	Selenium, ICP, Microwave (mg / kg (ppm))	2	1	1.5325							
035.05	Sodium, Flame Emission (%)	1	1	0.14000							
035.31	Sodium, AAS, Dry ash (%)	2	2	0.11325	0.05904						
035.41	Sodium, ICP, Dry ash (%)	12	11	0.13657	0.01277	0.13657	0.01448	0.00546	10.60%	0.00489	5.40%
035.42	Sodium, ICP, Open vessel (%)	2	2	0.12723	0.01022						
035.43	Sodium, ICP, Microwave (%)	10	9	0.13219	0.01883	0.13576	0.01145	0.00477	8.44%	0.00544	5.40%
035.99	Sodium, Miscellaneous (%)	1	1	0.14500							
036.42	Sulfur, ICP, Open vessel (%)	3	3	0.35600	0.01526	0.35600	0.01526	0.01101	4.29%	0.00900	4.67%

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036.43	Sulfur, ICP, Microwave (%)	4	4	0.39661	0.00763	0.39661	0.00763	0.00477	1.92%	0.00698	4.60%
036.99	Sulfur, Miscellaneous (%)	1	1	0.36500							
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	2	2	74.578	6.2331						
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	9	9	83.259	10.562	81.771	8.0965	3.3736	9.90%	2.5305	8.24%
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	2	2	79.645	11.109						
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	11	10	87.080	6.9954	87.080	7.9328	3.1357	9.11%	3.1820	8.17%
037.44	Zinc, ICP, Dry ash (mg / kg (ppm))	1	1	81.386							
037.52	Zinc, ICP-MS, Open vessel (mg / kg (ppm))	1	1	81.170							
037.99	Zinc, Miscellaneous (mg / kg (ppm))	2	2	83.200	10.182						
038.41	Molybdenum, ICP, Dry ash (mg / kg (ppm))	1	1	0.68850							
038.43	Molybdenum, ICP, Microwave (mg / kg (ppm))	1	1	1.0000							
102.01	Niacin, Microbiological (mg / kg (ppm))	1	1	51.700							
103.01	Pantothenic Acid, Microbiological (mg / kg (ppm))	1	1	1.6200							
104.00	Riboflavin, Fluorometric (mg / kg (ppm))	1	1	15.650							
105.01	Thiamine, Fluorometer (mg / kg (ppm))	1	1	1.9950							
106.02	Vitamin A, LC (KU / kg)	1		0.00000							
107.00	Vitamin B12, Microbiological (µg / kg (ppb))	1		4.4000							
108.02	Vitamin D3, LC (KU / kg)	1	1	48.685							
109.02	Vitamin E, LC (IU / kg)	1	1	2.2000							
113.01	Folic Acid, Micro (mg / kg (ppm))	1	1	10.750							
114.01	Biotin, Microbiological (mg / kg (ppm))	1	1	0.77150							
120.00	Alanine, Post-col Ninhydrin Der (%)	5	5	3.1981	0.13359	3.1981	0.13359	0.07468	4.18%	0.03240	3.36%
120.02	Alanine, Post-col OPA Der (%)	1	1	2.9450							
120.05	Alanine, Pre-col AQC Der (%)	2	2	2.9470	0.01838						
120.99	Alanine, Miscellaneous (%)	1	1	2.9520							
121.00	Arginine, Post-col Ninhydrin Der (%)	5	5	2.0375	0.02133	2.0375	0.02133	0.01192	1.05%	0.01526	3.59%
121.02	Arginine, Post-col OPA Der (%)	1	1	2.0250							
121.05	Arginine, Pre-col AQC Der (%)	2	2	1.9680	0.10889						
121.99	Arginine, Miscellaneous (%)	1	1	1.8715							
122.00	Aspartic, Post-col Ninhydrin Der (%)	5	5	4.1523	0.13481	4.1523	0.13481	0.07536	3.25%	0.03522	3.23%
122.02	Aspartic, Post-col OPA Der (%)	1	1	4.0700							
122.05	Aspartic, Pre-col AQC Der (%)	2	2	3.8835	0.04738						
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin (%)	5	5	0.47252	0.03144	0.47252	0.03144	0.01758	6.65%	0.01008	4.48%
124.02	Cysteine/Cystine, PAO Post-col OPA Der (%)	1	1	0.55000							
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	2	2	0.43975	0.02864						
124.99	Cysteine/Cystine, Miscellaneous (%)	1	1	0.46050							
125.00	Glutamic, Post-col Ninhydrin Der (%)	5	5	5.6378	0.53051	5.6378	0.53051	0.29656	9.41%	0.05460	3.08%
125.02	Glutamic, Post-col OPA Der (%)	1	1	5.8850							
125.05	Glutamic, Pre-col AQC Der (%)	2	2	5.0195	0.73468						
125.99	Glutamic, Miscellaneous (%)	1	1	5.5210							

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126.00	Glycine, Post-col Ninhydrin Der (%)	5	5	1.9198	0.10901	1.9198	0.10901	0.06094	5.68%	0.01238	3.63%
126.05	Glycine, Pre-col AQC Der (%)	2	2	1.9890	0.02263						
126.99	Glycine, Miscellaneous (%)	1	1	1.8740							
127.00	Histidine, Post-col Ninhydrin Der (%)	5	4	0.99803	0.10122	0.99803	0.10122	0.06326	10.14%	0.00270	4.00%
127.02	Histidine, Post-col OPA Der (%)	1	1	0.95500							
127.05	Histidine, Pre-col AQC Der (%)	2	2	1.0100	0.00707						
127.99	Histidine, Miscellaneous (%)	1	1	1.0760							
128.00	Isoleucine, Post-col Ninhydrin Der (%)	5	5	2.0175	0.14282	2.0175	0.14282	0.07984	7.08%	0.01722	3.60%
128.02	Isoleucine, Post-col OPA Der (%)	1	1	1.9100							
128.05	Isoleucine, Pre-col AQC Der (%)	2	2	2.0310	0.02970						
128.99	Isoleucine, Miscellaneous (%)	1	1	1.9695							
129.00	Leucine, Post-col Ninhydrin Der (%)	5	5	3.5117	0.05780	3.5117	0.05780	0.03231	1.65%	0.01812	3.31%
129.02	Leucine, Post-col OPA Der (%)	1	1	3.4200							
129.05	Leucine, Pre-col AQC Der (%)	2	2	3.4358	0.00601						
129.99	Leucine, Miscellaneous (%)	1	1	3.3590							
130.00	L-Lysine, Post-col Ninhydrin Der (%)	5	5	2.9023	0.35216	2.9023	0.35216	0.19686	12.13%	0.03540	3.41%
130.02	L-Lysine, Post-col OPA Der (%)	1	1	2.8750							
130.05	L-Lysine, Pre-col AQC Der (%)	2	2	2.9008	0.10501						
130.99	L-Lysine, Miscellaneous (%)	1	1	2.8775							
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	5	5	0.70496	0.03969	0.70496	0.03969	0.02219	5.63%	0.01852	4.22%
131.02	Methionine, PAO Post-col OPA Der (%)	1	1	0.70000							
131.05	Methionine, PAO Pre-col AQC Der (%)	2	2	0.83475	0.11349						
131.99	Methionine, Miscellaneous (%)	1	1	0.66150							
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	5	5	1.9145	0.08463	1.9145	0.08463	0.04731	4.42%	0.01666	3.63%
132.02	Phenylalanine, Post-col OPA Der (%)	1	1	1.8450							
132.05	Phenylalanine, Pre-col AQC Der (%)	2	2	1.8883	0.00955						
132.99	Phenylalanine, Miscellaneous (%)	1	1	1.7775							
133.00	Proline, Post-col Ninhydrin Der (%)	5	5	1.9077	0.11342	1.9077	0.11342	0.06340	5.95%	0.04216	3.63%
133.05	Proline, Pre-col AQC Der (%)	2	2	1.9188	0.00177						
133.99	Proline, Miscellaneous (%)	2	2	1.9630	0.03253						
134.00	Serine, Post-col Ninhydrin Der (%)	5	4	2.1809	0.05877	2.1809	0.05877	0.03673	2.69%	0.02490	3.56%
134.02	Serine, Post-col OPA Der (%)	1	1	2.0250							
134.05	Serine, Pre-col AQC Der (%)	2	2	1.9235	0.10819						
134.99	Serine, Miscellaneous (%)	1	1	1.9740							
135.00	Threonine, Post-col Ninhydrin Der (%)	5	5	2.1522	0.10141	2.1522	0.10141	0.05669	4.71%	0.02334	3.56%
135.02	Threonine, Post-col OPA Der (%)	1	1	2.0700							
135.05	Threonine, Pre-col AQC Der (%)	2	2	1.9573	0.20895						
135.99	Threonine, Miscellaneous (%)	1	1	1.9865							
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	3	3	0.50293	0.04813	0.50293	0.04813	0.03473	9.57%	0.02147	4.44%
136.02	Tryptophan, Alka-Hydrol Post-col OPA De (%)	1	1	0.44000							

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
136.05	Tryptophan, Pre-col AQC Der (%)	1	1	0.57550							
136.99	Tryptophan, Miscellaneous (%)	2	2	0.51543	0.05010						
137.00	Tyrosine, Post-col Ninhydrin Der (%)	4	4	1.5181	0.15259	1.5181	0.15259	0.09537	10.05%	0.02438	3.76%
137.02	Tyrosine, Post-col OPA Der (%)	1	1	1.4200							
137.05	Tyrosine, Pre-col AQC Der (%)	2	2	1.5268	0.09652						
137.99	Tyrosine, Miscellaneous (%)	1	1	1.4090							
138.00	Valine, Post-col Ninhydrin Der (%)	5	5	2.3655	0.15833	2.3655	0.15833	0.08851	6.69%	0.02710	3.51%
138.02	Valine, Post-col OPA Der (%)	1	1	2.2650							
138.05	Valine, Pre-col AQC Der (%)	2	2	2.5240	0.04808						
138.99	Valine, Miscellaneous (%)	1	1	2.4220							
139.00	Taurine, Post-col Ninhydrin Der (%)	1	1	0.09500							
139.05	Taurine, Pre-col AQC Der (%)	1	1	0.01650							
139.99	Taurine, Miscellaneous (%)	1	1	0.17150							
160.99	Fructose, Miscellaneous (%)	1		0.00000							
162.99	Glucose, Miscellaneous (%)	1		0.00000							
163.99	Lactose, Miscellaneous (%)	1		0.00000							
165.99	Sucrose, Miscellaneous (%)	1		0.00000							
166.99	Raffinose, Miscellaneous (%)	1		0.00000							
167.99	Stachyose, Miscellaneous (%)	1		0.00000							
400.01	Water Activity, Aqualab chilled mirror (Units)	1	1	0.36855							
516.00	Arsenic, Total, AA, Hydride (mg / kg (ppm))	1	1	0.03280							
516.43	Arsenic, Total, ICP, Microwave (mg / kg (ppm))	2	1	1.2335							
516.53	Arsenic, Total, ICP-MS, Microwave (mg / kg (ppm))	1	1	0.05700							
518.41	Cadmium, ICP, Dry ash (mg / kg (ppm))	1		0.05000							
518.43	Cadmium, ICP, Microwave (mg / kg (ppm))	1		0.16000							
518.53	Cadmium, ICP-MS, Microwave (mg / kg (ppm))	1		0.01000							
520.41	Chromium, ICP, Dry ash (mg / kg (ppm))	1	1	0.71650							
520.43	Chromium, ICP, Microwave (mg / kg (ppm))	1	1	0.38500							
526.41	Lead, ICP, Dry ash (mg / kg (ppm))	1		0.05000							
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	1	1	0.02600							
539.41	Nickel, ICP, Dry ash (mg / kg (ppm))	1	1	0.60750							
710.99	Lauric Acid (12:0), Miscellaneous (%) (w/w)	1		0.01000							
714.99	Myristic Acid (14:0), Miscellaneous (%) (w/w)	1		0.01000							
716.99	Palmitic Acid (16:0), Miscellaneous (%) (w/w)	1	1	1.0800							
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (%) (w/w)	1	1	0.01000							
722.99	Stearic Acid (18:0), Miscellaneous (%) (w/w)	1	1	0.20000							
724.99	Oleic Acid (9c-18:1), Miscellaneous (%) (w/w)	1	1	0.37000							
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (%) (w/w)	1	1	1.5750							
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellaneous (%) (w/w)	1	1	0.09000							
740.99	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5), Miscellaneous (%) (w/w)	1		0.01000							

**Test Material Code # 201843**

**Issue Date : 09/30/2018**

Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO PT #fp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Average Range (R-bar)	Horwitz %RSD
750.99	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6), Miscellaneous (%)	1		0.01000							
754.99	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Miscellaneous (%) (w/w)	1	1	0.10000							
756.99	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Miscellaneous (%) (w/w)	1	1	1.5900							
772.99	Total Fatty Acids, Miscellaneous (%) (w/w)	1	1	3.3550							

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**  
**Brewers Dried Yeast**  
**Test Material Code # 201843**

**Method Precision Report**

**# Methods Reported: 18**  
**# Labs Reporting: 49**  
**Issue Date : 09/30/2018**

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 (%)	11	10	5.4524	0.42592	0.42213	0.15840	0.45087	7.78%	2.921%	8.31%	2.8464
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	40	38	44.582	0.48337	0.31069	0.18603	0.36212	0.70%	0.417%	0.81%	1.9466
005.00	Ash, 2h @ 600°C (%)	30	28	5.7846	1.0345	0.77049	0.20527	0.79736	13.70%	3.649%	14.17%	3.8845
011.01	Loss on Drying, 135°C 2hr (%)	20	18	7.7085	0.65237	0.63890	0.08741	0.64485	8.24%	1.127%	8.32%	7.3776
013.02	Fat, Acid Pretreat, Mojonner, Bak Ext (%)	12	12	9.5049	1.0662	1.0610	0.14974	1.0715	11.16%	1.575%	11.27%	7.1557
019.43	Calcium, ICP, Microwave (%)	10	8	0.05742	0.00736	0.00732	0.00381	0.00826	12.83%	6.672%	14.46%	2.1672
022.43	Copper, ICP, Microwave (mg / kg (ppm))	10	8	6.4736	6.4282	0.56813	0.27489	0.63114	13.09%	6.335%	14.55%	2.2960
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	10	9	45.306	5.3572	4.8173	1.9763	5.2070	10.82%	4.440%	11.70%	2.6346
027.41	Magnesium, ICP, Dry ash (%)	9	9	0.17016	0.00979	0.00861	0.00659	0.01084	5.06%	3.873%	6.37%	1.6452
027.43	Magnesium, ICP, Microwave (%)	11	10	0.17968	0.01103	0.00654	0.00530	0.00841	3.69%	2.989%	4.75%	1.5890
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	9	8	11.520	1.3216	1.2847	0.43911	1.3576	11.15%	3.812%	11.79%	3.0918
031.41	Phosphorus, ICP, Dry ash (%)	9	8	1.0533	0.07485	0.06056	0.02058	0.06396	5.67%	1.925%	5.98%	3.1079
031.43	Phosphorus, ICP, Microwave (%)	11	11	1.1170	0.05014	0.04499	0.03131	0.05481	4.03%	2.803%	4.91%	1.7504
032.41	Potassium, ICP, Dry ash (%)	9	8	1.0425	0.06143	0.05748	0.03086	0.06524	5.55%	2.981%	6.30%	2.1143
032.43	Potassium, ICP, Microwave (%)	11	10	1.0502	0.06978	0.06711	0.02704	0.07236	6.39%	2.575%	6.89%	2.6754
035.41	Sodium, ICP, Dry ash (%)	12	11	0.13657	0.01277	0.01202	0.00609	0.01347	8.80%	4.459%	9.87%	2.2129
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	9	8	83.259	10.562	5.5863	2.5876	6.1565	6.96%	3.224%	7.67%	2.3792
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	11	10	87.080	6.9954	6.7117	2.7889	7.2681	7.71%	3.203%	8.35%	2.6061

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