



**AAFCO**  
Proficiency Testing Program



**Pet Food Scheme**

**Canola Meal**

**Test Material Code # 201741**

**Method Summary Report**

(Precision Report Follows)

**# Methods Reported: 260**

**# Labs Reporting: 57**

**Issue Date : 04/30/2017**

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 (%)	4	4	3.9161	0.37010	3.9161	0.37010	0.18505	9.45%	0.06875	3.26%
001.03	Loss on Drying, Low temp. methods (%)	1	1	4.0250							
001.05	Loss on Drying, LECO (%)	1	1	4.0850							
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	8	8	4.0869	0.38071	4.0212	0.25891	0.11442	6.44%	0.17625	3.24%
001.08	Loss on Drying, 102°C 16 hr, in meat (%)	2	2	3.8625	0.37123						
001.99	Loss on Drying, Miscellaneous (%)	2	2	3.8375	0.08839						
002.01	Protein, Auto Kjel-Foss (%)	3	3	32.363	0.36304	32.363	0.36304	0.20960	1.12%	0.15500	1.76%
002.04	Protein, Copper Catalyst (%)	1	1	33.000							
002.05	Protein, Copper, Boric Acid (%)	4	4	32.636	0.34118	32.636	0.34118	0.17059	1.05%	0.40750	1.75%
002.06	Protein, Combustion Nitrogen Analyzer (%)	45	44	32.969	0.31053	33.001	0.20301	0.03826	0.62%	0.17788	1.74%
002.08	Protein, Cu/Ti (%)	1	1	32.400							
002.99	Protein, Miscellaneous (%)	3	3	32.850	0.42720	32.850	0.42720	0.30208	1.30%	0.03333	1.74%
003.00	Fat, Eth Ext., Direct (%)	3	3	8.9117	0.01882	8.9117	0.01882	0.01087	0.21%	0.13420	2.88%
003.06	Fat, Pet Ether (%)	3	3	8.9500	0.21743	8.9500	0.21743	0.12553	2.43%	0.16667	2.88%
003.09	Fat, Soxtec, Eth Ext (%)	6	6	8.9386	0.37608	9.0232	0.21041	0.10737	2.33%	0.12682	2.87%
003.10	Fat, Soxtec, Pet Ether (%)	6	6	8.7807	0.19583	8.7807	0.22207	0.11333	2.53%	0.13173	2.88%
003.13	Fat, Soxtec, Hexane Ext. (%)	2	2	9.1250	0.17678						
003.14	Fat, Ankom (%)	8	8	8.8658	0.45860	8.9466	0.30644	0.13543	3.43%	0.16124	2.88%
003.99	Fat, Miscellaneous (%)	3	3	7.1567	1.6717	7.1567	1.6717	0.96516	23.36%	0.28000	2.97%
004.00	Fiber, Crude, Asbestos Free (%)	8	8	12.715	1.0545	12.675	1.1043	0.48805	8.71%	0.70370	2.73%
004.03	Fiber, Fritted Glass (%)	2	2	10.510	0.72832						
004.06	Fiber, Fibertec (%)	5	5	13.025	2.0167	13.025	2.0167	1.0084	15.48%	0.63340	2.72%
004.07	Fiber, ANKOM (%)	16	16	13.272	2.0411	13.546	1.4231	0.44473	10.51%	0.49486	2.70%
004.99	Fiber, Miscellaneous (%)	1	1	13.430							
005.00	Ash, 2h @ 600°C (%)	32	31	6.7260	0.18918	6.7352	0.15025	0.03373	2.23%	0.06269	3.00%
005.02	Ash, LECO (%)	1	1	7.1250							
005.05	Ash, 3h @ 550°C (%)	8	8	7.2406	1.0735	6.8890	0.12551	0.05547	1.82%	0.02125	2.99%
005.99	Ash, Miscellaneous (%)	5	5	6.8270	0.13165	6.8270	0.13165	0.06583	1.93%	0.03800	3.00%
006.01	Total sugars, Mod. Fehling Soln (%)	1	1	10.250							
006.99	Total sugars, Miscellaneous (%)	3	3	7.3705	0.08268	7.3705	0.08268	0.04774	1.12%	0.11107	2.96%

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
008.02	Fiber, Acid Detergent (%)	3	3	20.902	1.0903	20.902	1.0903	0.62948	5.22%	0.46463	2.19%
008.08	Fiber, Acid Detergent, ANKOM (%)	9	9	22.172	1.7863	21.940	1.2908	0.53783	5.88%	0.93666	2.13%
008.99	Fiber, Acid Detergent Miscellaneous (%)	1	1	18.350							
009.07	Fiber, Neutral Det-ENZ Pretreat (%)	3	3	28.569	1.2312	28.569	1.2312	0.71083	4.31%	0.35023	1.87%
009.09	Fiber, Neutral Detergent, ANKOM (%)	7	7	28.068	3.0479	28.068	3.4563	1.6330	12.31%	1.5620	1.89%
010.03	Moisture, Karl-Fischer (%)	1	1	4.2500							
010.99	Moisture, Miscellaneous (%)	6	6	3.8424	0.59229	3.8424	0.67165	0.34275	17.48%	0.10117	3.27%
011.01	Loss on Drying, 135°C 2hr (%)	26	25	4.7691	0.55627	4.8035	0.27580	0.06895	5.74%	0.21315	3.16%
011.02	Loss on Drying, 130°C for 2 hours (%)	3	3	4.6567	0.56003	4.6567	0.56003	0.39600	12.03%	0.08667	3.17%
011.03	Loss on drying, 130°C, 1 hour, Flour (%)	1	1	4.0550							
012.00	Starch, Polarimetric (Ewers) (%)	2	2	5.1000	0.14142						
012.01	Starch, Megazyme (%)	4	4	0.74488	0.25057	0.74488	0.25057	0.14467	33.64%	0.09565	4.18%
012.02	Starch, Colorimetric (GOP) (%)	1	1	3.3250							
012.03	Starch, Enzymatic (%)	2	2	0.58250	0.04596						
012.04	Starch, YSI Analyzer (%)	2	2	1.0525	0.00354						
013.00	Fat, Acid hydrolysis (%)	10	10	10.767	0.56567	10.760	0.62577	0.24736	5.82%	0.25863	2.80%
013.02	Fat, Mojonnier, Bak Ext (%)	13	13	11.047	0.46987	11.065	0.38914	0.13491	3.52%	0.21832	2.79%
013.10	Fat, Soxtec-Acid Hydrolysis (%)	4	4	9.3500	0.99459	9.3500	0.99459	0.49730	10.64%	0.19500	2.86%
013.13	Fat, Ankom- Acid Hydrolysis (%)	2	2	10.607	1.3272						
014.99	Fiber, total dietary TDF, Miscellaneous (%)	1	1	32.100							
017.43	Boron, ICP, Microwave (mg / kg (ppm))	1	1	19.000							
019.00	Calcium, Ox-Mn04 Vol. (%)	1	1	0.88000							
019.31	Calcium, AAS, Dry ash (%)	4	4	0.75769	0.08269	0.75769	0.08269	0.04135	10.91%	0.03568	4.17%
019.32	Calcium, AAS, Open vessel (%)	1	1	0.81450							
019.33	Calcium, AAS, Microwave (%)	1	1	0.81050							
019.41	Calcium, ICP, Dry ash (%)	9	9	0.79966	0.03467	0.79966	0.03932	0.01638	4.92%	0.02617	4.14%
019.42	Calcium, ICP, Open vessel (%)	6	6	0.78327	0.11071	0.78327	0.12555	0.06407	16.03%	0.05077	4.15%
019.43	Calcium, ICP, Microwave (%)	8	8	0.80828	0.04858	0.80845	0.05471	0.02418	6.77%	0.01283	4.13%
019.44	Calcium, ICP, Dry ash (%)	5	5	0.80581	0.03972	0.80581	0.03972	0.01776	4.93%	0.01414	4.13%
019.52	Calcium, ICP-MS, Open vessel (%)	1	1	0.78300							
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	1	1	0.17000							
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	2	1	7.1900							
022.32	Copper, AAS, Open vessel (mg / kg (ppm))	1	1	5.8800							
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	9	9	6.2408	1.1520	6.0357	0.74581	0.31075	12.36%	0.31140	12.20%
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	4	4	6.2435	0.90820	6.2435	0.90820	0.45410	14.55%	0.28000	12.14%
022.43	Copper, ICP, Microwave (mg / kg (ppm))	6	6	6.0100	0.65707	5.9161	0.51378	0.26219	8.68%	0.53878	12.24%
022.44	Copper, ICP, Dry ash (mg / kg (ppm))	4	4	5.3860	0.57581	5.3860	0.57581	0.28791	10.69%	0.17580	12.42%
022.52	Copper, ICP-MS, Open vessel (mg / kg (ppm))	1	1	6.0700							

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
022.53	Copper, ICP-MS, Microwave (mg / kg (ppm))	2	2	6.2250	0.57983						
024.99	Iodine, Miscellaneous (mg / kg (ppm))	2		0.00000							
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	2	2	99.983	12.399						
025.32	Iron, AAS, Open vessel (mg / kg (ppm))	2	2	91.993	13.304						
025.33	Iron, AAS, Microwave (mg / kg (ppm))	1	1	103.26							
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	13	13	102.62	10.972	100.22	6.5878	2.2839	6.57%	3.0748	8.00%
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	5	5	89.997	15.317	89.997	15.317	6.8500	17.02%	3.9260	8.13%
025.43	Iron, ICP, Microwave (mg / kg (ppm))	8	7	103.87	18.865	99.822	10.730	5.0694	10.75%	1.1454	8.00%
025.52	Iron, ICP-MS, Open vessel (mg / kg (ppm))	1	1	102.04							
027.31	Magnesium, AAS, Dry ash (%)	4	4	0.49436	0.04647	0.49436	0.04647	0.02324	9.40%	0.04588	4.45%
027.32	Magnesium, AAS, Open vessel (%)	1	1	0.50850							
027.33	Magnesium, AAS, Microwave (%)	1	1	0.40600							
027.41	Magnesium, ICP, Dry ash (%)	9	9	0.48657	0.01045	0.48657	0.01185	0.00494	2.44%	0.01296	4.46%
027.42	Magnesium, ICP, Open vessel (%)	5	5	0.49497	0.04427	0.49497	0.04427	0.01980	8.94%	0.02446	4.45%
027.43	Magnesium, ICP, Microwave (%)	9	9	0.49726	0.01906	0.49833	0.01910	0.00796	3.83%	0.01347	4.44%
027.44	Magnesium, ICP, Dry ash (%)	5	5	0.51089	0.01217	0.51089	0.01217	0.00544	2.38%	0.00742	4.43%
027.52	Magnesium, ICP-MS, Open vessel (%)	1	1	0.52600							
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	2	2	58.783	8.4464						
028.32	Manganese, AAS, Open vessel (mg / kg (ppm))	1	1	78.375							
028.33	Manganese, AAS, Microwave (mg / kg (ppm))	1	1	79.470							
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	9	9	76.418	3.0230	76.715	2.6935	1.1223	3.51%	1.2726	8.32%
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	5	5	73.787	10.880	73.787	10.880	4.8657	14.75%	5.7300	8.37%
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	7	6	78.182	5.6513	78.182	6.4085	3.2703	8.20%	0.39512	8.30%
028.44	Manganese, ICP, Dry ash (mg / kg (ppm))	5	5	77.763	4.0013	77.763	4.0013	2.0007	5.15%	2.2003	8.31%
028.52	Manganese, ICP-MS, Open vessel (mg / kg (ppm))	1	1	81.140							
028.53	Manganese, ICP-MS, Microwave (mg / kg (ppm))	1	1	79.350							
031.01	Phosphorus, Photometric (%)	5	5	1.1530	0.02820	1.1530	0.02820	0.01261	2.45%	0.02200	3.91%
031.03	Phosphorus, Autoanalyzer (%)	2	2	1.1440	0.00849						
031.41	Phosphorus, ICP, Dry ash (%)	8	8	1.1613	0.04879	1.1637	0.04985	0.02203	4.28%	0.02739	3.91%
031.42	Phosphorus, ICP, Open vessel (%)	6	6	1.0636	0.12705	1.0636	0.14407	0.07352	13.54%	0.02262	3.96%
031.43	Phosphorus, ICP, Microwave (%)	8	8	1.1535	0.04741	1.1535	0.05376	0.02376	4.66%	0.03758	3.91%
031.44	Phosphorus, ICP, Dry ash (%)	5	5	1.1338	0.03885	1.1338	0.03885	0.01737	3.43%	0.03564	3.92%
031.51	Phosphorus, ICP-MS, Dry ash (%)	1	1	1.1500							
032.02	Potassium, Flame Emission (%)	1	1	1.3550							
032.31	Potassium, AAS, Dry ash (%)	3	3	1.3195	0.02210	1.3195	0.02210	0.01276	1.67%	0.01967	3.84%
032.41	Potassium, ICP, Dry ash (%)	9	9	1.3348	0.05289	1.3348	0.05997	0.02499	4.49%	0.03630	3.83%
032.42	Potassium, ICP, Open vessel (%)	6	6	1.2849	0.15225	1.2888	0.16339	0.08338	12.68%	0.02547	3.85%
032.43	Potassium, ICP, Microwave (%)	8	8	1.3569	0.07978	1.3569	0.09047	0.03998	6.67%	0.02553	3.82%

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
032.44	Potassium, ICP, Dry ash (%)	5	5	1.2996	0.13103	1.2996	0.13103	0.05860	10.08%	0.03748	3.85%
032.99	Potassium, Miscellaneous (%)	1	1	1.3830							
033.00	Salt as chloride, Sol Cl (%)	1	1	0.05840							
033.01	Salt as chloride, Poten Cl (%)	5	5	0.09190	0.04988	0.09190	0.04988	0.02231	54.28%	0.00820	5.73%
034.01	Selenium, Fluor (mg / kg (ppm))	1	1	0.31700							
034.04	Selenium, AA, Hydride (mg / kg (ppm))	1	1	0.30000							
034.41	Selenium, ICP, Dry ash (mg / kg (ppm))	1	1	0.60485							
034.43	Selenium, ICP, Microwave (mg / kg (ppm))	1	1	0.42800							
034.52	Selenium, ICP-MS, Open vessel (mg / kg (ppm))	1	1	0.31500							
034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	2	2	0.41325	0.12268						
034.99	Selenium, Miscellaneous (mg / kg (ppm))	2	2	0.31025	0.07389						
035.31	Sodium, AAS, Dry ash (%)	3	3	0.00727	0.00672	0.00727	0.00672	0.00475	92.43%	0.00373	8.39%
035.41	Sodium, ICP, Dry ash (%)	11	8	0.00736	0.00564	0.00636	0.00373	0.00165	58.75%	0.00033	8.56%
035.42	Sodium, ICP, Open vessel (%)	3	2	30.020	42.433	30.020	42.433			11.642	1.83%
035.43	Sodium, ICP, Microwave (%)	6	5	0.00417	0.00338	0.00271	0.00105	0.00059	38.62%	0.00034	9.73%
036.04	Sulfur, LECO (%)	1	1	0.65000							
036.42	Sulfur, ICP, Open vessel (%)	4	4	0.66821	0.05387	0.66821	0.05387	0.02694	8.06%	0.02183	4.25%
036.43	Sulfur, ICP, Microwave (%)	6	6	0.64365	0.02631	0.64365	0.02983	0.01522	4.64%	0.03023	4.27%
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	3	3	57.430	4.0319	57.430	4.0319	2.3278	7.02%	1.5667	8.70%
037.32	Zinc, AAS, Open vessel (mg / kg (ppm))	1	1	58.595							
037.33	Zinc, AAS, Microwave (mg / kg (ppm))	1	1	52.685							
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	9	8	59.329	3.2399	59.320	3.6551	1.6153	6.16%	1.8437	8.65%
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	5	5	47.740	12.704	47.740	12.704	5.6814	26.61%	5.4920	8.94%
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	7	7	59.051	5.3273	58.729	5.2814	2.4952	8.99%	1.1760	8.67%
037.44	Zinc, ICP, Dry ash (mg / kg (ppm))	4	4	56.394	0.95449	56.394	0.95449	0.47725	1.69%	1.3800	8.72%
037.52	Zinc, ICP-MS, Open vessel (mg / kg (ppm))	1	1	58.230							
037.53	Zinc, ICP-MS, Microwave (mg / kg (ppm))	1	1	55.100							
038.43	Molybdenum, ICP, Microwave (mg / kg (ppm))	1	1	1.1000							
038.53	Molybdenum, ICP-MS, Microwave (mg / kg (ppm))	1	1	1.2850							
042.00	Chloride, Titrimetric (%)	1	1	0.06850							
042.99	Chloride, Miscellaneous (%)	1	1	0.07050							
101.00	Choline Chloride, Microbiological (mg / kg (ppm))	1	1	5,840.0							
101.01	Choline Chloride, Chem (mg / kg (ppm))	2	2	2,065.0	353.55						
102.01	Niacin, Microbiological (mg / kg (ppm))	1	1	162.50							
103.01	Pantothenic Acid, Microbiological (mg / kg (ppm))	1	1	5.7650							
104.00	Riboflavin, Fluorometric (mg / kg (ppm))	1	1	4.8950							
104.03	Riboflavin, LC (mg / kg (ppm))	1	1	3.6000							
105.00	Thiamine, LC (mg / kg (ppm))	1	1	3.7000							

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
106.02	Vitamin A, LC (KU / kg)	4	2	0.87775	0.39209	0.87775	0.39209			0.03150	
108.01	Vitamin D3, LC, AOAC (KU / kg)	1		0.00000							
108.99	Vitamin D3, Miscellaneous (KU / kg)	4									
109.02	Vitamin E, LC (IU/kg)	5	5	415.03	790.76	415.03	790.76	395.38	190.53%	41.140	
113.01	Folic Acid, Micro (mg / kg (ppm))	1	1	0.98800							
120.00	Alanine, Post-col Ninhydrin Der (%)	3	3	1.4691	0.02597	1.4691	0.02597	0.01836	1.77%	0.01190	3.77%
120.01	Alanine, Pre-col OPA Der (%)	1	1	1.4850							
120.02	Alanine, Post-col OPA Der (%)	1	1	1.4850							
120.05	Alanine, Pre-col AQC Der (%)	1	1	1.4450							
121.00	Arginine, Post-col Ninhydrin Der (%)	3	3	1.8302	0.06912	1.8302	0.06912	0.03991	3.78%	0.04213	3.65%
121.01	Arginine, Pre-col OPA Der (%)	1	1	1.9950							
121.02	Arginine, Post-col OPA Der (%)	1	1	1.9350							
121.05	Arginine, Pre-col AQC Der (%)	1	1	1.9800							
121.99	Arginine, Miscellaneous (%)	1	1	2.0662							
122.00	Aspartic, Post-col Ninhydrin Der (%)	3	3	2.4055	0.03462	2.4055	0.03462	0.02448	1.44%	0.07467	3.50%
122.01	Aspartic, Pre-col OPA Der (%)	1	1	2.3550							
122.02	Aspartic, Post-col OPA Der (%)	1	1	2.3750							
122.05	Aspartic, Pre-col AQC Der (%)	1	1	2.4300							
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin (%)	3	3	0.72435	0.05187	0.72435	0.05187	0.02995	7.16%	0.00983	4.20%
124.01	Cysteine/Cystine, PAO Pre-col OPA Der (%)	1	1	0.73800							
124.02	Cysteine/Cystine, PAO Post-col OPA Der (%)	1	1	0.78000							
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	1	1	1.2350							
125.00	Glutamic, Post-col Ninhydrin Der (%)	3	3	5.5914	0.24732	5.5914	0.24732	0.14279	4.42%	0.06240	3.09%
125.01	Glutamic, Pre-col OPA Der (%)	1	1	5.3800							
125.02	Glutamic, Post-col OPA Der (%)	1	1	5.6100							
125.05	Glutamic, Pre-col AQC Der (%)	1	1	5.4300							
126.00	Glycine, Post-col Ninhydrin Der (%)	3	3	1.6921	0.00778	1.6921	0.00778	0.00550	0.46%	0.01203	3.70%
126.01	Glycine, Pre-col OPA Der (%)	1	1	1.5650							
126.02	Glycine, Post-col OPA Der (%)	1	1	1.7200							
126.05	Glycine, Pre-col AQC Der (%)	1	1	1.7200							
127.00	Histidine, Post-col Ninhydrin Der (%)	3	3	0.85858	0.01233	0.85858	0.01233	0.00712	1.44%	0.01570	4.09%
127.01	Histidine, Pre-col OPA Der (%)	1	1	0.70800							
127.02	Histidine, Post-col OPA Der (%)	1	1	0.90500							
127.05	Histidine, Pre-col AQC Der (%)	1	1	0.89500							
127.99	Histidine, Miscellaneous (%)	1	1	0.95620							
128.00	Isoleucine, Post-col Ninhydrin Der (%)	3	3	1.2491	0.07208	1.2491	0.07208	0.04162	5.77%	0.04107	3.87%
128.01	Isoleucine, Pre-col OPA Der (%)	1	1	1.3400							
128.02	Isoleucine, Post-col OPA Der (%)	1	1	1.3900							

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
128.05	Isoleucine, Pre-col AQC Der (%)	1	1	1.3600							
128.99	Isoleucine, Miscellaneous (%)	1	1	1.2320							
129.00	Leucine, Post-col Ninhydrin Der (%)	3	3	2.2478	0.01811	2.2478	0.01811	0.01046	0.81%	0.03277	3.54%
129.01	Leucine, Pre-col OPA Der (%)	1	1	2.2450							
129.02	Leucine, Post-col OPA Der (%)	1	1	2.3300							
129.05	Leucine, Pre-col AQC Der (%)	1	1	2.3150							
129.99	Leucine, Miscellaneous (%)	1	1	2.3985							
130.00	L-Lysine, Post-col Ninhydrin Der (%)	3	3	1.7781	0.02026	1.7781	0.02026	0.01170	1.14%	0.04850	3.67%
130.01	L-Lysine, Pre-col OPA Der (%)	1	1	1.4300							
130.02	L-Lysine, Post-col OPA Der (%)	1	1	1.8900							
130.05	L-Lysine, Pre-col AQC Der (%)	2	2	1.8388	0.07601						
130.99	L-Lysine, Miscellaneous (%)	1	1	1.8106							
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	3	3	0.68172	0.07243	0.68172	0.07243	0.04182	10.62%	0.01030	4.24%
131.01	Methionine, PAO Pre-col OPA Der (%)	1	1	0.55900							
131.02	Methionine, PAO Post-col OPA Der (%)	1	1	0.57500							
131.99	Methionine, Miscellaneous (%)	1	1	0.67695							
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	3	3	1.3401	0.05625	1.3401	0.05625	0.03248	4.20%	0.04123	3.83%
132.01	Phenylalanine, Pre-col OPA Der (%)	1	1	1.2900							
132.02	Phenylalanine, Post-col OPA Der (%)	1	1	1.3500							
132.05	Phenylalanine, Pre-col AQC Der (%)	1	1	1.3450							
132.99	Phenylalanine, Miscellaneous (%)	1	1	1.4088							
133.00	Proline, Post-col Ninhydrin Der (%)	3	3	1.9646	0.10695	1.9646	0.10695	0.06175	5.44%	0.04883	3.61%
133.05	Proline, Pre-col AQC Der (%)	1	1	2.0900							
133.99	Proline, Miscellaneous (%)	2	2	1.9675	0.03182						
134.00	Serine, Post-col Ninhydrin Der (%)	3	3	1.4440	0.04326	1.4440	0.04326	0.02498	3.00%	0.02357	3.78%
134.01	Serine, Pre-col OPA Der (%)	1	1	1.4250							
134.02	Serine, Post-col OPA Der (%)	1	1	1.2500							
134.05	Serine, Pre-col AQC Der (%)	1	1	1.3900							
135.00	Threonine, Post-col Ninhydrin Der (%)	3	3	1.5054	0.03537	1.5054	0.03537	0.02042	2.35%	0.04340	3.76%
135.01	Threonine, Pre-col OPA Der (%)	1	1	1.5100							
135.02	Threonine, Post-col OPA Der (%)	1	1	1.4050							
135.05	Threonine, Pre-col AQC Der (%)	1	1	1.5150							
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	2	2	0.44975	0.07106						
136.02	Tryptophan, Alka-Hydrol Post-col OPA De (%)	1	1	0.37000							
136.03	Tryptophan, Alka-Hydrol + IS RP LC FI (%)	1	1	0.33265							
136.99	Tryptophan, Miscellaneous (%)	3	3	0.46448	0.03305	0.46448	0.03305	0.01908	7.12%	0.03130	4.49%
137.00	Tyrosine, Post-col Ninhydrin Der (%)	3	3	0.83902	0.09048	0.83902	0.09048	0.06398	10.78%	0.03977	4.11%
137.01	Tyrosine, Pre-col OPA Der (%)	1	1	1.0300							

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
137.02	Tyrosine, Post-col OPA Der (%)	1	1	0.88000							
137.05	Tyrosine, Pre-col AQC Der (%)	1	1	1.0650							
138.00	Valine, Post-col Ninhydrin Der (%)	3	3	1.5999	0.10882	1.5999	0.10882	0.07695	6.80%	0.02903	3.73%
138.01	Valine, Pre-col OPA Der (%)	1	1	1.6250							
138.02	Valine, Post-col OPA Der (%)	1	1	1.6900							
138.05	Valine, Pre-col AQC Der (%)	1	1	1.8600							
138.99	Valine, Miscellaneous (%)	1	1	1.6856							
139.00	Taurine, Post-col Ninhydrin Der (%)	3	3	0.21155	0.17167	0.21155	0.17167	0.09911	81.15%	0.00083	5.05%
160.99	Fructose, Miscellaneous (%)	2	2	0.15075	0.06965						
161.99	Galactose, Miscellaneous (%)	2		0.00000							
162.99	Glucose, Miscellaneous (%)	2	2	0.29975	0.00035						
163.99	Lactose, Miscellaneous (%)	2		0.00000							
164.99	Maltose, Miscellaneous (%)	2		0.00000							
165.99	Sucrose, Miscellaneous (%)	4	4	6.9398	0.29278	6.9398	0.29278	0.14639	4.22%	0.08423	2.99%
400.01	Water activity, Aqualab chilled mirror (Units)	2	2	0.22160	0.00693						
400.99	Water activity, Miscellaneous (Units)	1	1	0.27100							
516.43	Arsenic, total, ICP, Microwave (mg / kg (ppm))	1		0.00000							
516.53	Arsenic, total, ICP-MS, Microwave (mg / kg (ppm))	1	1	0.01550							
518.43	Cadmium, ICP, Microwave (mg / kg (ppm))	1	1	0.04550							
518.53	Cadmium, ICP-MS, Microwave (mg / kg (ppm))	1	1	0.02300							
520.43	Chromium, ICP, Microwave (mg / kg (ppm))	1	1	0.12500							
520.53	Chromium, ICP-MS, Microwave (mg / kg (ppm))	1	1	0.11500							
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	1	1	0.01300							
539.53	Nickel, ICP-MS, Microwave (mg / kg (ppm))	1	1	1.2650							
710.99	Lauric Acid (12:0), Miscellaneous (% (w/w))	2	1	0.00200							
714.99	Myristic Acid (14:0), Miscellaneous (% (w/w))	1	1	0.01050							
716.99	Palmitic Acid (16:0), Miscellaneous (% (w/w))	1	1	0.66700							
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (% (w/w))	2	2	0.06900	0.00424						
722.99	Stearic Acid (18:0), Miscellaneous (% (w/w))	1	1	0.16650							
724.99	Oleic Acid (9c-18:1), Miscellaneous (% (w/w))	1	1	5.6140							
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (% (w/w))	2	2	2.4568	0.10076						
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellaneous	2	2	0.90525	0.01945						
740.99	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5)	2	1	0.08100							
750.99	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6)	1	1	0.00300							
754.99	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, (w/w)	3	3	0.94167	0.05530	0.94167	0.05530	0.03193	5.87%	0.01667	
756.99	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, (w/w)	3	3	2.5483	0.12848	2.5483	0.12848	0.07418	5.04%	0.03667	
758.99	Total Saturated Fatty Acids, Miscellaneous (% (w/w))	1	1	0.73860							
762.99	Total Monounsaturated Fatty Acids, Miscellaneous (w/w)	1	1	5.2991							

**Test Material Code # 201741**

**Issue Date : 04/30/2017**

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
766.99	Total Polyunsaturated Fatty Acids, Miscellaneous	1	1	2.6855							
772.99	Total Fatty Acids, Miscellaneous (% (w/w))	1	1	10.180							

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.





**AAFCO**  
Proficiency Testing Program



**Pet Food Scheme**  
**Canola Meal**  
**Test Material Code # 201741**

**Method Precision Report**

**# Methods Reported: 18**  
**# Labs Reporting: 57**  
**Issue Date : 04/30/2017**

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
002.06	Protein, Combustion Nitrogen Analyzer (%)	45	42	32.969	0.31053	0.20219	0.15965	0.25762	0.61%	0.484%	0.78%	1.6137
004.07	Fiber, ANKOM (%)	16	15	13.272	2.0411	1.1204	0.48955	1.2227	8.18%	3.574%	8.93%	2.4976
005.00	Ash, 2h @ 600°C (%)	32	29	6.7260	0.18918	0.13619	0.04999	0.14507	2.02%	0.740%	2.15%	2.9023
008.08	Fiber, Acid Detergent, ANKOM (%)	9	8	22.172	1.7863	0.79819	0.86715	1.1786	3.68%	4.002%	5.44%	1.3591
011.01	Loss on Drying, 135°C 2hr (%)	26	22	4.7691	0.55627	0.21504	0.18015	0.28053	4.46%	3.734%	5.81%	1.5572
013.00	Fat, Acid hydrolysis (%)	10	10	10.767	0.56567	0.53606	0.25541	0.59380	4.98%	2.372%	5.52%	2.3249
013.02	Fat, Mojonnier, Bak Ext (%)	13	11	11.047	0.46987	0.34890	0.15877	0.38333	3.13%	1.423%	3.44%	2.4143
019.41	Calcium, ICP, Dry ash (%)	9	9	0.79966	0.03467	0.03086	0.02236	0.03811	3.86%	2.796%	4.77%	1.7045
019.43	Calcium, ICP, Microwave (%)	8	8	0.80828	0.04858	0.04790	0.01151	0.04926	5.93%	1.424%	6.09%	4.2794
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	9	8	6.2408	1.1520	0.48520	0.33993	0.59243	8.23%	5.766%	10.05%	1.7428
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	13	11	102.62	10.972	3.8512	2.2743	4.4726	3.91%	2.311%	4.54%	1.9666
027.41	Magnesium, ICP, Dry ash (%)	9	9	0.48657	0.01045	0.00692	0.01108	0.01306	1.42%	2.276%	2.68%	1.1792
027.43	Magnesium, ICP, Microwave (%)	9	9	0.49726	0.01906	0.01626	0.01408	0.02151	3.27%	2.831%	4.32%	1.5275
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	9	9	76.418	3.0230	2.8608	1.3817	3.1770	3.74%	1.808%	4.16%	2.2993
031.41	Phosphorus, ICP, Dry ash (%)	8	8	1.1613	0.04879	0.04515	0.02614	0.05217	3.89%	2.251%	4.49%	1.9962
031.43	Phosphorus, ICP, Microwave (%)	8	8	1.1535	0.04741	0.04136	0.03278	0.05277	3.59%	2.841%	4.57%	1.6101
032.41	Potassium, ICP, Dry ash (%)	9	8	1.3348	0.05289	0.05124	0.02231	0.05589	3.82%	1.664%	4.17%	2.5054
032.43	Potassium, ICP, Microwave (%)	8	8	1.3569	0.07978	0.07753	0.02658	0.08196	5.71%	1.959%	6.04%	3.0835

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