AAFCO Proficiency Testing Program

ANAB ACCREDITED ISO/IEC 17043 PROFICIENCY TESTING PROVIDER

AAFCO PTP Pet Food Ingredient Scheme

Pet Food Ingredient Scheme

 # Labs Reporting: 57

Vegetable Pomace

Method Summary Report

 # Methods Reported: 227

Test Material Code # 202041

(Precision Report Follows)

Issue Date : 03/31/2020

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
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	16	**15**	7.022	0.3286	**7.083**	0.1305	0.0421	1.84%	0.0547	2.98%
001.99	Loss on Drying, Miscellaneous (%)	7	**6**	7.002	0.3965	**7.002**	0.4497	0.2295	6.42%	0.0567	2.98%
001.00	Loss on Drying, Vac 95°C 5 hr (%)	3	3	7.087	0.0302	7.087	0.0302	0.0174	0.43%	0.0547	2.98%
001.03	Loss on Drying, Low temp. methods (%)	2	2	6.878	0.4137						
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	48	**47**	8.815	0.4355	**8.817**	0.4221	0.0770	4.79%	0.0981	2.88%
002.01	Protein, Crude, Auto Kjel-Foss (%)	3	3	8.475	0.1302	8.475	0.1302	0.0751	1.54%	0.1237	2.90%
002.04	Protein, Crude, Copper Catalyst (%)	2	2	8.600	0.1556						
002.08	Protein, Crude, Cu/Ti (%)	2	2	8.588	0.0601						
002.00	Protein, Crude, Crude (%)	1	1	9.240							
002.05	Protein, Crude, Copper, Boric Acid (%)	1	1	8.510							
003.14	Fat, Crude, Ankom (%)	13	**13**	2.111	0.1945	**2.112**	0.2062	0.0715	9.76%	0.0891	3.57%
003.10	Fat, Crude, Randall, Pet Ether (%)	9	**9**	1.864	0.2968	**1.822**	0.2276	0.0948	12.49%	0.1000	3.65%
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	4	4	2.116	0.1602	2.116	0.1602	0.0801	7.57%	0.1134	3.57%
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	3	3	2.369	0.4114	2.369	0.4114	0.2375	17.36%	0.0598	3.51%
003.13	Fat, Crude, Randall, Hexane Ext. (%)	3	3	2.161	0.1335	2.161	0.1335	0.0771	6.18%	0.0706	3.56%
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirect (%)	1	1	1.970							
003.06	Fat, Crude, Pet Ether (%)	1	1	2.055							
003.12	Fat, Crude, Hexane Ext (%)	1	1	1.895							
004.07	Fiber, Crude, ANKOM (%)	17	**16**	20.87	1.741	**20.83**	1.695	0.5296	8.14%	0.5654	2.19%
004.00	Fiber, Crude, Asbestos Free (%)	5	5	20.79	0.8285	20.79	0.8285	0.3705	3.99%	0.6020	2.19%
004.06	Fiber, Crude, Fibertec (%)	5	5	19.91	0.4629	19.91	0.4629	0.2070	2.33%	0.4832	2.24%
004.03	Fiber, Crude, Fritted Glass (%)	1	1	17.63							
005.00	Ash, 2h @ 600°C (%)	36	**34**	7.278	0.2136	**7.295**	0.0840	0.0180	1.15%	0.0755	2.97%
005.05	Ash, 3h @ 550°C (%)	5	4	7.366	0.0462	7.366	0.0462	0.0231	0.63%	0.0313	2.96%
005.99	Ash, Miscellaneous (%)	2	2	7.245	0.0000						
005.03	Ash, Microwave furnace (%)	1	1	7.225							
006.00	Total Sugars, As sucrose (%)	1	1	7.534							
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	7	**7**	26.46	2.267	**26.46**	2.570	1.214	9.71%	0.7817	1.94%
008.02	Fiber, Acid Detergent, Crucible (%)	3	3	28.14	2.127	28.14	2.127	1.228	7.56%	0.8742	1.89%

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008.99	Fiber, Acid Detergent, Miscellaneous (%)	2	2	28.36	0.3002						
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	6	**6**	31.78	1.828	**31.77**	2.073	1.058	6.52%	0.6983	1.77%
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	2	2	32.80	1.974						
009.04	Fiber, Neutral Detergent, Neutral Det-No ENZ Pretreat (%)	1	1	33.68							
010.99	Moisture, Miscellaneous (%)	1	1	6.955							
011.01	Loss on Drying, 135°C 2hr (%)	18	**17**	8.896	0.3153	**8.926**	0.2875	0.0872	3.22%	0.1670	2.88%
011.02	Loss on Drying, 130°C for 2 hours (%)	4	3	8.225	0.0409	8.225	0.0409	0.0236	0.50%	0.1900	2.91%
011.99	Loss on Drying, High Temp. Methods Miscellaneous (%)	1	1	9.490							
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	5	5	1.768	1.056	1.768	1.056	0.4723	59.75%	0.1102	3.67%
012.00	Starch, Polarimetric (Ewers) (%)	2	2	7.625	5.904						
012.03	Starch, Enzymatic-Colorimetric Method, Miscellaneous (%)	2	2	0.7081	0.0114						
012.04	Starch, Enzymatic-Enzyme Membrane Technology (YSI) (%)	2	2	0.5950	0.7000						
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	12	**11**	3.067	0.5073	**3.067**	0.5753	0.2168	18.76%	0.1200	3.38%
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	10	**10**	2.922	1.645	**2.607**	0.6511	0.2574	24.97%	0.1811	3.46%
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	3	3	1.553	0.9036	1.553	0.9036	0.5217	58.17%	0.1200	3.74%
013.13	Fat, Acid Pretreat, Ankom- Acid Hydrolysis (%)	2	2	11.75	10.59						
015.43	Aluminum, ICP, Microwave (ppm)	3	3	90.68	10.00	90.68	10.00	7.074	11.03%	3.196	8.12%
015.41	Aluminum, ICP, Dry ash (ppm)	2	2	107.8	19.16						
015.53	Aluminum, ICP-MS, Microwave (ppm)	1	1	120.0							
017.43	Boron, ICP, Microwave (ppm)	3	3	41.53	1.589	41.53	1.589	0.9176	3.83%	0.0770	9.13%
017.41	Boron, ICP, Dry ash (ppm)	1	1	43.66							
017.53	Boron, ICP-MS, Microwave (ppm)	1	1	43.70							
019.43	Calcium, ICP, Microwave (%)	11	**10**	1.037	0.0792	**1.037**	0.0899	0.0355	8.66%	0.0127	3.98%
019.41	Calcium, ICP, Dry ash (%)	8	**8**	1.030	0.0426	**1.030**	0.0483	0.0213	4.68%	0.0212	3.98%
019.44	Calcium, ICP, Dry ash (%)	8	**7**	1.016	0.0417	**1.016**	0.0473	0.0224	4.66%	0.0246	3.99%
019.31	Calcium, AAS, Dry ash (%)	3	3	1.123	0.0880	1.123	0.0880	0.0508	7.84%	0.0437	3.93%
019.99	Calcium, Miscellaneous (%)	3	3	1.040	0.0625	1.040	0.0625	0.0361	6.00%	0.0200	3.98%
019.42	Calcium, ICP, Open vessel (%)	2	2	1.084	0.0060						
019.52	Calcium, ICP-MS, Open vessel (%)	1	1	1.240							
019.53	Calcium, ICP-MS, Microwave (%)	1	1	1.075							
021.41	Cobalt, ICP, Dry ash (ppm)	2	2	9.258	3.963						
021.43	Cobalt, ICP, Microwave (ppm)	2	2	5.580	0.6793						
021.53	Cobalt, ICP-MS, Microwave (ppm)	2	2	4.061	2.998						
021.31	Cobalt, AAS, Dry ash (ppm)	1	1	6.950							
022.41	Copper, ICP, Dry ash (ppm)	7	**7**	12.49	2.542	**11.90**	1.290	0.6095	10.84%	1.018	11.02%
022.43	Copper, ICP, Microwave (ppm)	8	**7**	10.44	1.773	**10.78**	1.111	0.5247	10.30%	0.4851	11.18%
022.31	Copper, AAS, Dry ash (ppm)	2	2	12.05	0.2051						
022.42	Copper, ICP, Open vessel (ppm)	2	2	11.36	0.5056						
022.99	Copper, Miscellaneous (ppm)	2	2	12.03	1.450						
022.44	Copper, ICP, Dry ash (ppm)	1	1	10.78							

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022.53	Copper, ICP-MS, Microwave (ppm)	1	1	11.00							
024.53	Iodine, ICP-MS, Microwave (ppm)	1	1	0.1150							
025.43	Iron, ICP, Microwave (ppm)	8	**8**	341.4	41.28	**338.8**	40.58	17.93	11.98%	17.40	6.66%
025.41	Iron, ICP, Dry ash (ppm)	7	**6**	330.3	7.772	**330.3**	8.814	4.498	2.67%	5.838	6.68%
025.99	Iron, Miscellaneous (ppm)	3	3	326.1	27.44	326.1	27.44	15.84	8.42%	3.730	6.70%
025.31	Iron, AAS, Dry ash (ppm)	2	2	337.6	7.131						
025.42	Iron, ICP, Open vessel (ppm)	2	2	307.6	32.67						
025.53	Iron, ICP-MS, Microwave (ppm)	1	1	323.5							
027.43	Magnesium, ICP, Microwave (%)	9	**9**	0.1565	0.0078	**0.1572**	0.0069	0.0029	4.41%	0.0083	5.28%
027.41	Magnesium, ICP, Dry ash (%)	8	**8**	0.1538	0.0067	**0.1544**	0.0062	0.0027	3.99%	0.0025	5.30%
027.44	Magnesium, ICP, Dry ash (%)	7	**6**	0.1544	0.0035	**0.1544**	0.0040	0.0020	2.58%	0.0014	5.30%
027.31	Magnesium, AAS, Dry ash (%)	2	2	0.1503	0.0040						
027.42	Magnesium, ICP, Open vessel (%)	2	2	0.1562	0.0054						
027.99	Magnesium, Miscellaneous (%)	2	2	0.1628	0.0039						
027.53	Magnesium, ICP-MS, Microwave (%)	1	1	0.1615							
028.43	Manganese, ICP, Microwave (ppm)	8	**7**	30.97	2.608	**30.97**	2.958	1.397	9.55%	0.2576	9.54%
028.41	Manganese, ICP, Dry ash (ppm)	7	**6**	30.06	1.447	**29.81**	1.014	0.5174	3.40%	0.2771	9.60%
028.31	Manganese, AAS, Dry ash (ppm)	2	2	32.71	0.0601						
028.42	Manganese, ICP, Open vessel (ppm)	2	2	28.74	1.071						
028.99	Manganese, Miscellaneous (ppm)	2	2	31.93	2.015						
028.44	Manganese, ICP, Dry ash (ppm)	1	1	32.13							
028.53	Manganese, ICP-MS, Microwave (ppm)	1	1	29.15							
031.43	Phosphorus, ICP, Microwave (%)	12	**10**	0.1993	0.0071	**0.1997**	0.0070	0.0028	3.52%	0.0051	5.10%
031.41	Phosphorus, ICP, Dry ash (%)	9	**9**	0.2070	0.0173	**0.2034**	0.0085	0.0035	4.18%	0.0055	5.08%
031.44	Phosphorus, ICP, Dry ash (%)	7	**6**	0.1965	0.0055	**0.1965**	0.0062	0.0032	3.15%	0.0110	5.11%
031.01	Phosphorus, Photometric (%)	3	3	0.1980	0.0035	0.1980	0.0035	0.0024	1.75%	0.0007	5.10%
031.42	Phosphorus, ICP, Open vessel (%)	3	3	0.2061	0.0035	0.2061	0.0035	0.0020	1.71%	0.0118	5.07%
031.99	Phosphorus, Miscellaneous (%)	3	3	0.2045	0.0143	0.2045	0.0143	0.0082	6.97%	0.0043	5.08%
031.03	Phosphorus, Autoanalyzer (%)	1	1	0.1965							
031.53	Phosphorus, ICP-MS, Microwave (%)	1	1	0.2055							
032.41	Potassium, ICP, Dry ash (%)	8	**8**	1.937	0.1653	**1.958**	0.1221	0.0540	6.23%	0.0892	3.61%
032.43	Potassium, ICP, Microwave (%)	9	**8**	1.929	0.0509	**1.929**	0.0578	0.0255	3.00%	0.0348	3.62%
032.44	Potassium, ICP, Dry ash (%)	7	**6**	1.823	0.0555	**1.823**	0.0629	0.0321	3.45%	0.0636	3.65%
032.42	Potassium, ICP, Open vessel (%)	3	3	1.930	0.0935	1.930	0.0935	0.0540	4.84%	0.0970	3.62%
032.31	Potassium, AAS, Dry ash (%)	2	2	1.856	0.0291						
032.99	Potassium, Miscellaneous (%)	2	2	1.888	0.0248						
032.53	Potassium, ICP-MS, Microwave (%)	1	1	1.965							
033.01	Salt as chloride, Poten Cl (%)	6	**6**	0.5867	0.0459	**0.5993**	0.0190	0.0097	3.17%	0.0103	4.32%
033.00	Salt as chloride, Sol Cl (%)	1	1	0.5919							
034.53	Selenium, ICP-MS, Microwave (ppm)	3	3	0.0640	0.0151	0.0640	0.0151	0.0087	23.61%	0.0043	22.00%

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034.41	Selenium, ICP, Dry ash (ppm)	1	1	1.175							
034.04	Selenium, AA, Hydride (ppm)	1		0.0500							
034.43	Selenium, ICP, Microwave (ppm)	1		1.000							
034.51	Selenium, ICP-MS, Dry Ash (ppm)	1		0.2500							
035.41	Sodium, ICP, Dry ash (%)	13	**12**	0.1347	0.0120	**0.1370**	0.0066	0.0024	4.79%	0.0127	5.39%
035.43	Sodium, ICP, Microwave (%)	9	**7**	0.1286	0.0059	**0.1286**	0.0067	0.0032	5.23%	0.0036	5.45%
035.42	Sodium, ICP, Open vessel (%)	1	1	0.1252							
035.53	Sodium, ICP-MS, Microwave (%)	1	1	0.1280							
035.99	Sodium, Miscellaneous (%)	1	1	0.1300							
036.43	Sulfur, ICP, Microwave (%)	8	**6**	0.1599	0.0121	**0.1599**	0.0137	0.0070	8.55%	0.0042	5.27%
036.42	Sulfur, ICP, Open vessel (%)	3	3	0.1462	0.0113	0.1462	0.0113	0.0065	7.72%	0.0040	5.34%
036.53	Sulfur, ICP-MS, Microwave (%)	1	1	0.1610							
036.99	Sulfur, Miscellaneous (%)	1	1	0.1450							
037.41	Zinc, ICP, Dry ash (ppm)	7	**7**	39.37	16.10	**34.34**	3.951	1.867	11.51%	1.961	9.40%
037.43	Zinc, ICP, Microwave (ppm)	8	**7**	33.96	2.231	**33.96**	2.530	1.195	7.45%	0.9538	9.41%
037.31	Zinc, AAS, Dry ash (ppm)	2	2	35.75	1.414						
037.42	Zinc, ICP, Open vessel (ppm)	2	2	34.74	4.575						
037.99	Zinc, Miscellaneous (ppm)	2	2	37.10	9.334						
037.44	Zinc, ICP, Dry ash (ppm)	1	1	31.43							
037.53	Zinc, ICP-MS, Microwave (ppm)	1	1	36.40							
038.43	Molybdenum, ICP, Microwave (ppm)	3	3	1.182	0.1310	1.182	0.1310	0.0756	11.08%	0.0111	15.60%
038.41	Molybdenum, ICP, Dry ash (ppm)	2	2	1.691	0.8887						
038.53	Molybdenum, ICP-MS, Microwave (ppm)	2	2	1.054	0.1847						
038.51	Molybdenum, ICP-MS, Dry ash (ppm)	1	1	1.320							
040.53	Barium, ICP-MS, Microwave (ppm)	1	1	45.43							
042.00	Chloride, Titrimetric (%)	1	1	0.3700							
106.02	Vitamin A, LC (KU / kg)	1	1	0.3350							
109.02	Vitamin E, LC (IU / kg)	1	1	31.12							
111.98	Vitamin C, Ascorbic Acid, Miscellaneous (ppm)	1	1	9.170							
120.00	Alanine, Post-col Ninhydrin Der (%)	6	**6**	0.4614	0.0180	**0.4614**	0.0204	0.0104	4.42%	0.0191	4.49%
120.99	Alanine, Miscellaneous (%)	2	2	0.4978	0.0103						
120.05	Alanine, Pre-col AQC Der (%)	1	1	0.4750							
121.00	Arginine, Post-col Ninhydrin Der (%)	6	**6**	0.3510	0.0191	**0.3510**	0.0216	0.0110	6.16%	0.0160	4.68%
121.99	Arginine, Miscellaneous (%)	2	2	0.4173	0.0251						
121.05	Arginine, Pre-col AQC Der (%)	1	1	0.3800							
122.00	Aspartic, Post-col Ninhydrin Der (%)	6	**6**	0.8225	0.0401	**0.8226**	0.0451	0.0230	5.49%	0.0184	4.12%
122.99	Aspartic, Miscellaneous (%)	2	2	0.8673	0.0675						
122.05	Aspartic, Pre-col AQC Der (%)	1	1	0.8750							
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	7	**6**	0.0671	0.0268	**0.0677**	0.0291	0.0149	43.08%	0.0020	6.00%
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	1	1	0.0600							

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124.99	Cysteine/Cystine, Miscellaneous (%)	1		0.1000							
125.00	Glutamic, Post-col Ninhydrin Der (%)	6	**6**	1.086	0.0903	**1.079**	0.0845	0.0431	7.84%	0.0275	3.95%
125.99	Glutamic, Miscellaneous (%)	2	2	1.108	0.0453						
125.05	Glutamic, Pre-col AQC Der (%)	1	1	0.9650							
126.00	Glycine, Post-col Ninhydrin Der (%)	6	**6**	0.3874	0.0241	**0.3874**	0.0273	0.0139	7.05%	0.0078	4.61%
126.99	Glycine, Miscellaneous (%)	2	2	0.4273	0.0251						
126.05	Glycine, Pre-col AQC Der (%)	1	1	0.4250							
127.00	Histidine, Post-col Ninhydrin Der (%)	6	5	0.1859	0.0450	0.1859	0.0450	0.0062	24.19%	0.0004	5.15%
127.99	Histidine, Miscellaneous (%)	2	2	0.1993	0.0131						
127.05	Histidine, Pre-col AQC Der (%)	1	1	0.1600							
128.00	Isoleucine, Post-col Ninhydrin Der (%)	6	**6**	0.3279	0.0325	**0.3279**	0.0369	0.0188	11.25%	0.0106	4.73%
128.99	Isoleucine, Miscellaneous (%)	2	2	0.3658	0.0011						
128.05	Isoleucine, Pre-col AQC Der (%)	1	1	0.3350							
129.00	Leucine, Post-col Ninhydrin Der (%)	6	**6**	0.5829	0.0284	**0.5836**	0.0306	0.0156	5.25%	0.0132	4.34%
129.99	Leucine, Miscellaneous (%)	2	2	0.6188	0.0088						
129.05	Leucine, Pre-col AQC Der (%)	1	1	0.5800							
130.00	L-Lysine, Post-col Ninhydrin Der (%)	6	**6**	0.4491	0.0420	**0.4413**	0.0282	0.0144	6.40%	0.0125	4.52%
130.99	L-Lysine, Miscellaneous (%)	2	2	0.4950	0.0212						
130.05	L-Lysine, Pre-col AQC Der (%)	1	1	0.4550							
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	7	**6**	0.1379	0.0064	**0.1382**	0.0065	0.0033	4.73%	0.0057	5.39%
131.05	Methionine, PAO Pre-col AQC Der (%)	1	1	0.1350							
131.99	Methionine, Miscellaneous (%)	1	1	0.1335							
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	6	**6**	0.3712	0.0340	**0.3709**	0.0379	0.0193	10.21%	0.0076	4.64%
132.99	Phenylalanine, Miscellaneous (%)	2	2	0.3875	0.0035						
132.05	Phenylalanine, Pre-col AQC Der (%)	1	1	0.3850							
133.00	Proline, Post-col Ninhydrin Der (%)	6	**6**	0.3104	0.0186	**0.3104**	0.0211	0.0108	6.80%	0.0129	4.77%
133.99	Proline, Miscellaneous (%)	2	2	0.3548	0.0074						
133.05	Proline, Pre-col AQC Der (%)	1	1	0.3150							
134.00	Serine, Post-col Ninhydrin Der (%)	6	**6**	0.3589	0.0328	**0.3589**	0.0372	0.0190	10.37%	0.0071	4.67%
134.99	Serine, Miscellaneous (%)	2	2	0.3838	0.0018						
134.05	Serine, Pre-col AQC Der (%)	1	1	0.3750							
135.00	Threonine, Post-col Ninhydrin Der (%)	6	**6**	0.3382	0.0102	**0.3382**	0.0116	0.0059	3.42%	0.0084	4.71%
135.99	Threonine, Miscellaneous (%)	2	2	0.3203	0.0569						
135.05	Threonine, Pre-col AQC Der (%)	1	1	0.3600							
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	4	4	0.1323	0.0353	0.1323	0.0353	0.0177	26.70%	0.0033	5.42%
136.99	Tryptophan, Miscellaneous (%)	2	2	0.0750	0.0141						
136.01	Tryptophan, Alka-Hydrol Rev Phase LC UV (%)	1	1	0.1617							
137.00	Tyrosine, Post-col Ninhydrin Der (%)	5	5	0.2203	0.0348	0.2203	0.0348	0.0156	15.81%	0.0063	5.02%
137.99	Tyrosine, Miscellaneous (%)	2	2	0.2478	0.0315						
137.05	Tyrosine, Pre-col AQC Der (%)	1	1	0.2700							

Test Material Code # 202041 **(Precision Report Follows)** **Issue Date : 03/31/2020**

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
138.00	Valine, Post-col Ninhydrin Der (%)	6	**6**	0.4282	0.0327	**0.4282**	0.0371	0.0189	8.66%	0.0181	4.54%
138.99	Valine, Miscellaneous (%)	2	2	0.4478	0.0103						
138.05	Valine, Pre-col AQC Der (%)	1	1	0.4800							
139.00	Taurine, Post-col Ninhydrin Der (%)	1	1	0.2050							
160.99	Fructose, Miscellaneous (%)	1	1	0.9900							
162.99	Glucose, Miscellaneous (%)	1	1	1.640							
163.99	Lactose, Miscellaneous (%)	1		0.1500							
164.99	Maltose, Miscellaneous (%)	1		0.1500							
165.99	Sucrose, Miscellaneous (%)	1	1	1.115							
400.01	Water Activity, Aqualab chilled mirror (Units)	2	2	0.3268	0.0102						
400.99	Water Activity, Miscellaneous (Units)	1	1	0.3645							
516.53	Arsenic, Total, ICP-MS, Microwave (ppm)	4	4	0.1767	0.0191	0.1767	0.0191	0.0095	10.81%	0.0052	20.77%
516.00	Arsenic, Total, AA, Hydride (ppm)	1	1	0.1280							
516.43	Arsenic, Total, ICP, Microwave (ppm)	2	1	1.015							
518.53	Cadmium, ICP-MS, Microwave (ppm)	4	4	0.5021	0.0292	0.5021	0.0292	0.0146	5.81%	0.0110	17.74%
518.41	Cadmium, ICP, Dry ash (ppm)	2	2	0.3520	0.3514						
518.43	Cadmium, ICP, Microwave (ppm)	1	1	0.5450							
520.41	Chromium, ICP, Dry ash (ppm)	2	2	9.588	3.666						
520.43	Chromium, ICP, Microwave (ppm)	2	2	9.725	1.605						
520.53	Chromium, ICP-MS, Microwave (ppm)	2	2	7.835	3.627						
526.53	Lead, ICP-MS, Microwave (ppm)	4	4	0.4059	0.0359	0.4059	0.0359	0.0179	8.84%	0.0161	18.32%
526.41	Lead, ICP, Dry ash (ppm)	2	2	0.4484	0.1338						
529.99	Mercury, Miscellaneous (ppb)	1	1	8.113							
539.41	Nickel, ICP, Dry ash (ppm)	2	2	18,441	26,075						
539.53	Nickel, ICP-MS, Microwave (ppm)	2	2	3.137	1.193						
710.99	Lauric Acid (12:0), Miscellaneous (% (w/w))	1	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	0.2850							
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (% (w/w))	1		0.0100							
722.99	Stearic Acid (18:0), Miscellaneous (% (w/w))	1	1	0.0300							
724.99	Oleic Acid (9c-18:1), Miscellaneous (% (w/w))	1	1	0.1300							
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (% (w/w))	1	1	0.8450							
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellaneous (% (w/w))	1	1	0.2250							
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 (%	1		0.0100							
754.99	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Miscellaneous (% (w/w))	1	1	0.2350							
756.99	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Miscellaneous (% (w/w))	1	1	0.8500							
772.99	Total Fatty Acids, Miscellaneous (% (w/w))	1	1	1.545							

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.

Test Material Code # 202041 **(Precision Report Follows)** **Issue Date : 03/31/2020**

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

AAFCO Proficiency Testing Program

ANAB ACCREDITED ISO/IEC 17043 PROFICIENCY TESTING PROVIDER

AAFCO PTP Pet Food Ingredient Scheme

Pet Food Ingredient Scheme
Vegetable Pomace
Test Material Code # 202041

Method Precision Report

 # Methods Reported: 15
 # Labs Reporting: 57
Issue Date : 03/31/2020

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 %rsd	Reproducibility %RSD	sR/sr
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	16	13	7.022	0.3286	0.1137	0.0398	0.1205	1.60%	0.56%	1.70%	3.030
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	48	45	8.815	0.4355	0.4219	0.0807	0.4296	4.78%	0.91%	4.87%	5.324
003.10	Fat, Crude, Randall, Pet Ether (%)	9	8	1.864	0.2968	0.1557	0.0780	0.1742	8.75%	4.38%	9.79%	2.234
003.14	Fat, Crude, Ankom (%)	13	13	2.111	0.1945	0.1855	0.0828	0.2031	8.79%	3.92%	9.62%	2.453
004.07	Fiber, Crude, ANKOM (%)	17	16	20.87	1.741	1.702	0.5171	1.779	8.16%	2.48%	8.53%	3.440
005.00	Ash, 2h @ 600°C (%)	36	31	7.278	0.2136	0.0567	0.0595	0.0822	0.78%	0.81%	1.13%	1.382
011.01	Loss on Drying, 135°C 2hr (%)	18	17	8.896	0.3153	0.2933	0.1635	0.3358	3.30%	1.84%	3.77%	2.054
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	10	9	2.922	1.645	0.6150	0.1758	0.6397	25.24%	7.21%	26.25%	3.639
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	12	10	3.067	0.5073	0.5114	0.0799	0.5176	16.90%	2.64%	17.11%	6.479
019.43	Calcium, ICP, Microwave (%)	11	9	1.037	0.0792	0.0776	0.0088	0.0781	7.55%	0.85%	7.60%	8.891
025.43	Iron, ICP, Microwave (ppm)	8	8	341.4	41.28	39.63	16.32	42.86	11.61%	4.78%	12.55%	2.627
027.43	Magnesium, ICP, Microwave (%)	9	8	0.1565	0.0078	0.0072	0.0058	0.0092	4.59%	3.73%	5.91%	1.585
031.41	Phosphorus, ICP, Dry ash (%)	9	8	0.2070	0.0173	0.0061	0.0038	0.0072	3.01%	1.88%	3.55%	1.885
031.43	Phosphorus, ICP, Microwave (%)	12	10	0.1993	0.0071	0.0062	0.0049	0.0079	3.11%	2.44%	3.95%	1.621
035.41	Sodium, ICP, Dry ash (%)	13	11	0.1347	0.0120	0.0013	0.0070	0.0071	0.98%	5.07%	5.17%	1.018

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