



## Pet Food Ingredient Scheme

Carrots, Dehydrated

Test Material Code # 202144

## Method Summary Report

(Precision Report Follows)

# Labs Reporting: 59

# Methods Reported: 246

Issue Date : 12/31/2021

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 (%)	24	<b>24</b>	8.907	0.3843	<b>8.912</b>	0.4195	0.1071	4.71%	0.0903	2.88%
001.99	Loss on Drying, Miscellaneous (%)	7	<b>7</b>	8.971	0.4061	<b>8.971</b>	0.4605	0.2176	5.13%	0.2771	2.87%
001.00	Loss on Drying, Vac 95°C 5 hr (%)	2	<b>2</b>	9.195	0.0354						
001.03	Loss on Drying, Low temp. methods (%)	2	<b>2</b>	9.183	1.227						
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	52	<b>51</b>	10.55	0.3881	<b>10.58</b>	0.2385	0.0417	2.25%	0.0926	2.80%
002.01	Protein, Crude, Auto Kjell-Foss (%)	4	<b>4</b>	10.44	0.1954	10.44	0.1954	0.0977	1.87%	0.0928	2.81%
002.00	Protein, Crude, Crude (%)	1	<b>1</b>	10.93							
002.04	Protein, Crude, Copper Catalyst (%)	1	<b>1</b>	10.45							
002.05	Protein, Crude, Copper, Boric Acid (%)	1	<b>1</b>	10.47							
002.08	Protein, Crude, Cu/Ti (%)	1	<b>1</b>	10.68							
002.11	Protein, Crude, NIR (%)	1	<b>1</b>	18.97							
003.14	Fat, Crude, Ankom (%)	13	<b>13</b>	3.599	1.273	<b>3.387</b>	0.8053	0.2792	23.78%	0.2754	3.33%
003.10	Fat, Crude, Randall, Pet Ether (%)	7	<b>7</b>	2.648	0.1680	<b>2.648</b>	0.1905	0.0900	7.19%	0.0665	3.45%
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	7	<b>6</b>	3.029	0.5098	<b>2.988</b>	0.4793	0.2446	16.04%	0.1156	3.39%
003.06	Fat, Crude, Pet Ether (%)	4	<b>3</b>	2.740	0.1214	2.740	0.1214	0.0701	4.43%	0.0200	3.44%
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirect (%)	2	<b>2</b>	3.020	0.4031						
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	2	<b>2</b>	3.203	0.2722						
003.13	Fat, Crude, Randall, Hexane Ext. (%)	2	<b>2</b>	2.949	0.3030						
003.11	Fat, Crude, NIR (%)	1	<b>1</b>	2.390							
003.12	Fat, Crude, Hexane Ext (%)	1	<b>1</b>	3.050							
004.07	Fiber, Crude, ANKOM (%)	17	<b>16</b>	14.62	0.6960	<b>14.65</b>	0.7203	0.2251	4.92%	0.2304	2.61%
004.00	Fiber, Crude, Asbestos Free (%)	8	<b>7</b>	14.31	0.4595	<b>14.32</b>	0.4840	0.2287	3.38%	0.1242	2.64%
004.06	Fiber, Crude, Fibertec (%)	4	<b>4</b>	14.70	0.3615	14.70	0.3615	0.1808	2.46%	0.2613	2.61%
004.03	Fiber, Crude, Fritted Glass (%)	1	<b>1</b>	13.26							
005.00	Ash, 2h @ 600°C (%)	39	<b>38</b>	6.932	0.1341	<b>6.938</b>	0.1115	0.0226	1.61%	0.0750	2.99%
005.05	Ash, 3h @ 550°C (%)	6	<b>6</b>	6.918	0.0910	<b>6.918</b>	0.1031	0.0526	1.49%	0.0662	2.99%
005.99	Ash, Miscellaneous (%)	4	<b>4</b>	6.981	0.2960	6.981	0.2960	0.1480	4.24%	0.1575	2.99%
005.11	Ash, NIR (%)	1	<b>1</b>	2.355							
006.00	Total Sugars, As sucrose (%)	2	<b>2</b>	14.33	3.012						

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006.05	Total Sugars, TSI, Lane-Eunon (12th) (%)	1	1	24.55							
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	5	4	20.02	0.8745	20.02	0.8745	0.4373	4.37%	0.1258	2.24%
008.02	Fiber, Acid Detergent, Crucible (%)	2	2	27.95	9.502						
008.99	Fiber, Acid Detergent, Miscellaneous (%)	1	1	20.44							
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	4	4	24.27	1.278	24.27	1.278	0.6392	5.27%	0.6102	2.03%
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	1	1	22.54							
009.99	Fiber, Neutral Detergent, Miscellaneous (%)	1	1	24.25							
010.03	Moisture, Karl-Fischer (%)	1	1	8.115							
010.11	Moisture, NIR (%)	1	1	5.810							
010.99	Moisture, Miscellaneous (%)	1	1	8.800							
011.01	Loss on Drying, HT, 135°C 2hr (%)	18	17	11.62	0.7548	11.61	0.7416	0.2248	6.39%	0.1600	2.77%
011.02	Loss on Drying, HT, 130°C for 2 hours (%)	2	2	10.42	1.414						
011.03	Loss on Drying, HT, 130°C, 1 hour, Flour (%)	1	1	8.695							
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	4	3	1.484	0.6101	1.484	0.6101	0.3522	41.10%	0.0083	3.77%
012.00	Starch, Polarimetric (Ewers) (%)	1	1	14.20							
012.03	Starch, Enzymatic-Colorimetric Method, Miscellaneous (%)	1	1	1.142							
012.04	Starch, Enzymatic-Enzyme Membrane Technology (YSI) (%)	1	1	0.8500							
013.02	Fat, Acid Pretreat, Mojonier, Bak Ext (%)	9	9	3.825	0.5513	3.787	0.5355	0.2231	14.14%	0.2858	3.27%
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	6	6	3.893	0.9549	3.893	1.083	0.5526	27.82%	0.1939	3.26%
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	2	2	2.663	0.4137						
013.13	Fat, Acid Pretreat, Ankom- Acid Hydrolysis (%)	1	1	5.729							
014.01	Fiber, Total Dietary, Enz-Grav (%)	1	1	47.15							
015.41	Aluminum, ICP, Dry ash (ppm)	3	3	144.9	84.77	144.9	84.77	48.94	58.51%	1.571	7.56%
015.43	Aluminum, ICP, Microwave (ppm)	2	2	93.32	4.502						
015.53	Aluminum, ICP-MS, Microwave (ppm)	2	2	103.3	11.66						
017.43	Boron, ICP, Microwave (ppm)	3	3	33.29	3.101	33.29	3.101	1.790	9.31%	0.6570	9.44%
017.53	Boron, ICP-MS, Microwave (ppm)	2	2	33.41	4.437						
017.41	Boron, ICP, Dry ash (ppm)	1	1	30.90							
019.43	Calcium, ICP, Microwave (%)	11	10	0.7041	0.0204	0.7057	0.0180	0.0071	2.55%	0.0157	4.22%
019.44	Calcium, ICP, Dry ash (%)	11	10	0.6908	0.0171	0.6910	0.0189	0.0075	2.73%	0.0106	4.23%
019.41	Calcium, ICP, Dry ash (%)	9	9	0.6807	0.0150	0.6792	0.0133	0.0055	1.96%	0.0095	4.24%
019.31	Calcium, AAS, Dry ash (%)	3	3	0.7172	0.0494	0.7172	0.0494	0.0285	6.89%	0.0109	4.20%
019.42	Calcium, ICP, Open vessel (%)	3	3	2,329	4,032	2,329	4,032	2,851	173.15%	50.00	0.21%
019.53	Calcium, ICP-MS, Microwave (%)	2	2	0.6789	0.0029						
019.52	Calcium, ICP-MS, Open vessel (%)	1	1	0.8820							
019.99	Calcium, Miscellaneous (%)	1	1	0.6750							
021.41	Cobalt, ICP, Dry ash (ppm)	3	3	6.891	0.5996	6.891	0.5996	0.3462	8.70%	0.2031	11.96%
021.43	Cobalt, ICP, Microwave (ppm)	2	2	6.811	0.8472						
021.53	Cobalt, ICP-MS, Microwave (ppm)	2	2	6.989	0.0617						
022.43	Copper, ICP, Microwave (ppm)	8	8	8.041	1.855	7.645	1.017	0.4494	13.30%	0.2895	11.78%

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022.41	Copper, ICP, Dry ash (ppm)	4	3	7.133	0.1519	7.133	0.1519	0.1074	2.13%	0.0050	11.90%
022.42	Copper, ICP, Open vessel (ppm)	2	2	7.577	0.8160						
022.53	Copper, ICP-MS, Microwave (ppm)	2	2	6.897	0.4786						
022.44	Copper, ICP, Dry ash (ppm)	1	1	7.500							
022.99	Copper, Miscellaneous (ppm)	1	1	9.000							
022.31	Copper, AAS, Dry ash (ppm)	1		9.370							
023.01	Fluorine, Ion Sel Elect (ppm)	1		5.000							
025.43	Iron, ICP, Microwave (ppm)	10	9	1,108	54.75	<b>1,108</b>	62.09	25.87	5.60%	29.37	5.57%
025.41	Iron, ICP, Dry ash (ppm)	7	7	1,084	104.8	<b>1,080</b>	111.4	52.63	10.31%	43.25	5.59%
025.31	Iron, AAS, Dry ash (ppm)	2	2	1,044	28.94						
025.42	Iron, ICP, Open vessel (ppm)	2	2	1,028	83.44						
025.53	Iron, ICP-MS, Microwave (ppm)	2	2	1,013	38.56						
025.52	Iron, ICP-MS, Open vessel (ppm)	1	1	940.5							
025.99	Iron, Miscellaneous (ppm)	1	1	1,040							
027.43	Magnesium, ICP, Microwave (%)	9	9	0.1802	0.0080	<b>0.1802</b>	0.0089	0.0037	4.97%	0.0050	5.18%
027.44	Magnesium, ICP, Dry ash (%)	9	9	0.1846	0.0048	<b>0.1842</b>	0.0042	0.0018	2.30%	0.0048	5.16%
027.41	Magnesium, ICP, Dry ash (%)	8	8	0.1787	0.0050	<b>0.1785</b>	0.0052	0.0023	2.93%	0.0050	5.18%
027.42	Magnesium, ICP, Open vessel (%)	2	2	0.1779	0.0029						
027.53	Magnesium, ICP-MS, Microwave (%)	2	2	0.1783	0.0080						
027.31	Magnesium, AAS, Dry ash (%)	1	1	0.1510							
027.99	Magnesium, Miscellaneous (%)	1	1	0.1750							
028.43	Manganese, ICP, Microwave (ppm)	8	8	31.04	1.752	<b>31.35</b>	1.152	0.5092	3.68%	0.7679	9.52%
028.41	Manganese, ICP, Dry ash (ppm)	6	6	30.72	0.6852	<b>30.70</b>	0.7119	0.3633	2.32%	0.6960	9.55%
028.42	Manganese, ICP, Open vessel (ppm)	2	2	29.03	2.082						
028.53	Manganese, ICP-MS, Microwave (ppm)	2	2	30.89	1.332						
028.31	Manganese, AAS, Dry ash (ppm)	1	1	31.95							
028.44	Manganese, ICP, Dry ash (ppm)	1	1	31.42							
028.99	Manganese, Miscellaneous (ppm)	1	1	29.50							
031.43	Phosphorus, ICP, Microwave (%)	9	9	0.3299	0.0118	<b>0.3300</b>	0.0132	0.0055	3.99%	0.0065	4.73%
031.41	Phosphorus, ICP, Dry ash (%)	8	8	0.3168	0.0082	<b>0.3169</b>	0.0091	0.0040	2.87%	0.0052	4.75%
031.44	Phosphorus, ICP, Dry ash (%)	9	8	0.3246	0.0074	<b>0.3256</b>	0.0060	0.0027	1.85%	0.0030	4.74%
031.42	Phosphorus, ICP, Open vessel (%)	2	2	0.3311	0.0015						
031.53	Phosphorus, ICP-MS, Microwave (%)	2	2	0.3249	0.0243						
031.99	Phosphorus, Miscellaneous (%)	1	1	0.3100							
032.41	Potassium, ICP, Dry ash (%)	11	11	1.960	0.0774	<b>1.962</b>	0.0824	0.0310	4.20%	0.0736	3.61%
032.43	Potassium, ICP, Microwave (%)	11	11	2.023	0.0625	<b>2.027</b>	0.0492	0.0186	2.43%	0.0415	3.60%
032.44	Potassium, ICP, Dry ash (%)	11	10	1.956	0.0381	<b>1.952</b>	0.0286	0.0113	1.47%	0.0578	3.62%
032.31	Potassium, AAS, Dry ash (%)	3	3	1.873	0.1790	1.873	0.1790	0.1033	9.55%	0.0400	3.64%
032.42	Potassium, ICP, Open vessel (%)	3	3	2.101	0.1177	2.101	0.1177	0.0679	5.60%	0.0193	3.58%
032.53	Potassium, ICP-MS, Microwave (%)	2	2	2.015	0.0070						

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032.99	Potassium, Miscellaneous (%)	2	2	1.957	0.0944						
033.01	Salt as chloride, Poten Cl (%)	5	4	0.2785	0.0108	0.2785	0.0108			0.0000	4.85%
033.00	Salt as chloride, Sol Cl (%)	1	1	0.2600							
033.05	Salt as chloride, Ion Sel Electrode (%)	1	1	0.2500							
033.99	Salt, Miscellaneous (%)	1	1	0.2900							
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	3	2	0.0392	0.0087	0.0392	0.0087			0.0049	22.00%
034.04	Selenium, Total (Se), AA, Hydride (ppm)	1	1	0.0200							
035.41	Sodium, ICP, Dry ash (%)	17	16	0.1547	0.0112	<b>0.1547</b>	0.0127	0.0040	8.21%	0.0023	5.30%
035.43	Sodium, ICP, Microwave (%)	9	8	0.1414	0.0057	<b>0.1417</b>	0.0058	0.0026	4.10%	0.0021	5.37%
035.42	Sodium, ICP, Open vessel (%)	2	2	0.1366	0.0048						
035.53	Sodium, ICP-MS, Microwave (%)	2	2	0.1358	0.0039						
035.31	Sodium, AAS, Dry ash (%)	1	1	0.1380							
035.99	Sodium, Miscellaneous (%)	1	1	0.1250							
036.43	Sulfur, ICP, Microwave (%)	8	8	0.1399	0.0115	<b>0.1398</b>	0.0127	0.0056	9.10%	0.0028	5.38%
036.42	Sulfur, ICP, Open vessel (%)	5	4	0.1246	0.0108	0.1246	0.0108	0.0062	8.63%	0.0012	5.47%
036.53	Sulfur, ICP-MS, Microwave (%)	1	1	0.1280							
036.99	Sulfur, Miscellaneous (%)	1	1	0.1250							
037.43	Zinc, ICP, Microwave (ppm)	8	8	39.75	3.651	<b>39.76</b>	4.106	1.815	10.33%	1.529	9.19%
037.41	Zinc, ICP, Dry ash (ppm)	4	4	41.32	7.735	41.32	7.735	3.868	18.72%	0.4128	9.14%
037.42	Zinc, ICP, Open vessel (ppm)	2	2	36.09	3.405						
037.53	Zinc, ICP-MS, Microwave (ppm)	2	2	39.71	2.604						
037.31	Zinc, AAS, Dry ash (ppm)	1	1	41.45							
037.99	Zinc, Miscellaneous (ppm)	1	1	34.50							
038.53	Molybdenum, ICP-MS, Microwave (ppm)	3	3	0.9574	0.0588	0.9574	0.0588	0.0340	6.14%	0.0554	16.10%
038.41	Molybdenum, ICP, Dry ash (ppm)	2	2	0.7629	0.0171						
038.43	Molybdenum, ICP, Microwave (ppm)	2	2	0.9361	0.3732						
038.42	Molybdenum, ICP, Open vessel (ppm)	1	1	1.000							
040.53	Barium, ICP-MS, Microwave (ppm)	1	1	47.28							
041.53	Vanadium, ICP-MS, Microwave (ppm)	2	2	0.3155	0.0163						
101.02	Choline Chloride, LC (ppm)	1	1	1,570							
102.01	Niacin, Microbiological (ppm)	1	1	32.00							
103.01	Pantothenic Acid, Microbiological (ppm)	1	1	7.780							
104.00	Riboflavin, Fluorometric (ppm)	1	1	5.840							
105.01	Thiamine, Fluorometer (ppm)	1	1	1.190							
106.02	Vitamin A, LC (KU / kg)	1	1	3.130							
107.00	Vitamin B12, Microbiological (ppb)	1	1	6.715							
108.02	Vitamin D3, LC (KU / kg)	1		0.0400							
109.02	Vitamin E, LC (IU / kg)	1	1	55.05							
111.00	Vitamin C, Phosphorylated, LC (ppm)	1		14.30							
112.01	Pyridoxine, LC (µg / g)	1	1	2.835							

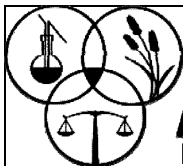
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113.01	Folic Acid, Micro (ppm)	1	1	0.4060							
114.01	Biotin, Microbiological (ppm)	1	1	0.1415							
120.00	Alanine, Post-col Ninhydrin Der (%)	2	2	0.5450	0.0070						
120.05	Alanine, Pre-col AQC Der (%)	1	1	0.5085							
120.99	Alanine, Miscellaneous (%)	1	1	0.5300							
121.00	Arginine, Post-col Ninhydrin Der (%)	2	2	0.4675	0.0389						
121.05	Arginine, Pre-col AQC Der (%)	1	1	0.3880							
121.99	Arginine, Miscellaneous (%)	1	1	0.4500							
122.00	Aspartic, Post-col Ninhydrin Der (%)	2	2	0.9450	0.0283						
122.05	Aspartic, Pre-col AQC Der (%)	1	1	0.8710							
122.99	Aspartic, Miscellaneous (%)	1	1	0.9500							
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin Der (%)	3	3	0.0933	0.0203	0.0933	0.0203	0.0144	21.79%	0.0034	5.72%
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	1	1	0.1214							
125.00	Glutamic, Post-col Ninhydrin Der (%)	2	2	1.299	0.0760						
125.05	Glutamic, Pre-col AQC Der (%)	1	1	1.229							
125.99	Glutamic, Miscellaneous (%)	1	1	1.310							
126.00	Glycine, Post-col Ninhydrin Der (%)	2	2	0.3915	0.0121						
126.05	Glycine, Pre-col AQC Der (%)	1	1	0.4630							
126.99	Glycine, Miscellaneous (%)	1	1	0.3900							
127.00	Histidine, Post-col Ninhydrin Der (%)	2	2	0.1779	0.0253						
127.05	Histidine, Pre-col AQC Der (%)	1	1	0.1850							
127.99	Histidine, Miscellaneous (%)	1	1	0.1700							
128.00	Isoleucine, Post-col Ninhydrin Der (%)	2	2	0.3775	0.0459						
128.05	Isoleucine, Pre-col AQC Der (%)	1	1	0.3655							
128.99	Isoleucine, Miscellaneous (%)	1	1	0.3900							
129.00	Leucine, Post-col Ninhydrin Der (%)	2	2	0.6064	0.0193						
129.05	Leucine, Pre-col AQC Der (%)	1	1	0.5975							
129.99	Leucine, Miscellaneous (%)	1	1	0.5950							
130.00	L-Lysine, Post-col Ninhydrin Der (%)	2	2	0.3537	0.0301						
130.05	L-Lysine, Pre-col AQC Der (%)	1	1	0.3045							
130.99	L-Lysine, Miscellaneous (%)	1	1	0.3950							
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	3	3	0.1520	0.0082	0.1520	0.0082	0.0047	5.37%	0.0068	5.31%
131.05	Methionine, PAO Pre-col AQC Der (%)	1	1	0.0947							
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	2	2	0.3769	0.0045						
132.05	Phenylalanine, Pre-col AQC Der (%)	1	1	0.3795							
132.99	Phenylalanine, Miscellaneous (%)	1	1	0.3650							
133.00	Proline, Post-col Ninhydrin Der (%)	2	2	0.3273	0.0033						
133.05	Proline, Pre-col AQC Der (%)	1	1	0.3360							
133.99	Proline, Miscellaneous (%)	1	1	0.3100							
134.00	Serine, Post-col Ninhydrin Der (%)	2	2	0.3896	0.0560						

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134.05	Serine, Pre-col AQC Der (%)	1	1	0.5210							
134.99	Serine, Miscellaneous (%)	1	1	0.3700							
135.00	Threonine, Post-col Ninhydrin Der (%)	2	2	0.3763	0.0088						
135.05	Threonine, Pre-col AQC Der (%)	1	1	0.3320							
135.99	Threonine, Miscellaneous (%)	1	1	0.3800							
136.99	Tryptophan, Miscellaneous (%)	2	2	0.0950	0.0354						
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	1	1	0.1449							
136.05	Tryptophan, Pre-col AQC Der (%)	1	1	0.1735							
137.00	Tyrosine, Post-col Ninhydrin Der (%)	2	2	0.2113	0.0018						
137.05	Tyrosine, Pre-col AQC Der (%)	1	1	0.2895							
137.99	Tyrosine, Miscellaneous (%)	1	1	0.2200							
138.00	Valine, Post-col Ninhydrin Der (%)	2	2	0.4665	0.0687						
138.05	Valine, Pre-col AQC Der (%)	1	1	0.4465							
138.99	Valine, Miscellaneous (%)	1	1	0.5300							
139.00	Taurine, Post-col Ninhydrin Der (%)	1	1	0.2100							
139.05	Taurine, Pre-col AQC Der (%)	1	1	0.0050							
139.99	Taurine, Miscellaneous (%)	1		0.0100							
160.99	Fructose, Miscellaneous (%)	1	1	5.175							
162.99	Glucose, Miscellaneous (%)	1	1	3.935							
163.99	Lactose, Miscellaneous (%)	1		0.1500							
164.99	Maltose, Miscellaneous (%)	1		0.1500							
165.99	Sucrose, Miscellaneous (%)	1	1	5.835							
166.99	Raffinose, Miscellaneous (%)	1	1	0.1150							
167.99	Stachyose, Miscellaneous (%)	1		0.0500							
400.01	Water Activity, Aqualab chilled mirror (Units)	1	1	0.4916							
400.99	Water Activity, Miscellaneous (Units)	1	1	0.4970							
516.53	Arsenic, Total (As), ICP-MS, Microwave (ppm)	3	3	0.1185	0.0050	0.1185	0.0050	0.0029	4.21%	0.0069	22.00%
516.00	Arsenic, Total (As), AA, Hydride (ppm)	1	1	0.1050							
516.43	Arsenic, Total (As), ICP, Microwave (ppm)	1		0.8900							
518.53	Cadmium, ICP-MS, Microwave (ppm)	3	3	0.5041	0.0612	0.5041	0.0612	0.0353	12.13%	0.0113	17.73%
518.41	Cadmium, ICP, Dry ash (ppm)	2	2	0.2637	0.1638						
518.43	Cadmium, ICP, Microwave (ppm)	2	2	0.4955	0.1125						
520.53	Chromium, Total (Cr), ICP-MS, Microwave (ppm)	3	3	12.42	1.176	12.42	1.176	0.6792	9.48%	1.102	10.95%
520.41	Chromium, Total (Cr), ICP, Dry ash (ppm)	2	2	7.793	1.051						
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	2	2	10.75	4.298						
526.53	Lead, ICP-MS, Microwave (ppm)	3	3	0.2802	0.0246	0.2802	0.0246	0.0142	8.77%	0.0125	19.37%
526.41	Lead, ICP, Dry ash (ppm)	2	2	0.2705	0.0297						
526.43	Lead, ICP, Microwave (ppm)	1	1	0.3151							
529.99	Mercury, Miscellaneous (ppb)	2	2	7.496	5.663						
539.41	Nickel, ICP, Dry ash (ppm)	2	2	4.334	0.0367						



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
539.53	Nickel, ICP-MS, Microwave (ppm)	2	2	5.101	0.2175						
539.43	Nickel, ICP, Microwave (ppm)	1	1	3.561							
710.99	Lauric Acid (12:0), Miscellaneous (% (w/w))	1		0.0200							
714.99	Myristic Acid (14:0), Miscellaneous (% (w/w))	1		0.0200							
716.99	Palmitic Acid (16:0), Miscellaneous (% (w/w))	1	1	0.5300							
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (% (w/w))	1		0.0200							
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	1.665							
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellaneous (% (w/w))	1	1	0.1400							
742.99	Behenic Acid (22:0), Miscellaneous (% (w/w))	1	1	0.0200							
754.99	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Miscellaneous (% (w/w))	1	1	0.1500							
756.99	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Miscellaneous (% (w/w))	1	1	1.685							
758.99	Total Saturated Fatty Acids, Miscellaneous (% (w/w))	1	1	0.6600							
764.99	Total cis Monounsaturated Fatty Acids, Miscellaneous (% (w/w))	1	1	0.2100							
768.99	Total cis Polyunsaturated Fatty Acids, Miscellaneous (% (w/w))	1	1	1.845							
770.99	Total Fat (equivalent to NLEA), Miscellaneous (% (w/w))	1	1	2.855							
772.99	Total Fatty Acids, Miscellaneous (% (w/w))	1	1	2.670							

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.



**Pet Food Ingredient Scheme**

**Carrots, Dehydrated**

**Test Material Code # 202144**

**Method Precision Report**

**# Methods Reported: 34**

**# Labs Reporting: 59**

**Issue Date : 12/31/2021**

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 (%)	24	24	8.907	0.3843	0.3793	0.0872	0.3892	4.26%	0.98%	4.37%	4.463
001.99	Loss on Drying, Miscellaneous (%)	7	6	8.971	0.4061	0.3213	0.1525	0.3556	3.54%	1.68%	3.92%	2.332
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	52	48	10.55	0.3881	0.2412	0.0840	0.2554	2.28%	0.79%	2.42%	3.040
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	7	6	3.029	0.5098	0.5065	0.0824	0.5131	16.72%	2.72%	16.94%	6.227
003.10	Fat, Crude, Randall, Pet Ether (%)	7	7	2.648	0.1680	0.1631	0.0570	0.1727	6.16%	2.15%	6.52%	3.029
003.14	Fat, Crude, Ankom (%)	13	11	3.599	1.273	0.4959	0.1698	0.5241	15.66%	5.36%	16.55%	3.086
004.00	Fiber, Crude, Asbestos Free (%)	8	7	14.31	0.4595	0.4542	0.0979	0.4647	3.17%	0.68%	3.25%	4.748
004.07	Fiber, Crude, ANKOM (%)	17	14	14.62	0.6960	0.6998	0.1225	0.7104	4.78%	0.84%	4.85%	5.801
005.00	Ash, 2h @ 600°C (%)	39	37	6.932	0.1341	0.1168	0.0614	0.1320	1.68%	0.88%	1.90%	2.149
005.05	Ash, 3h @ 550°C (%)	6	6	6.918	0.0910	0.0822	0.0550	0.0989	1.19%	0.79%	1.43%	1.799
011.01	Loss on Drying, HT, 135°C 2hr (%)	18	17	11.62	0.7548	0.7459	0.1640	0.7637	6.42%	1.41%	6.57%	4.657
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	6	6	3.893	0.9549	0.9463	0.1816	0.9635	24.31%	4.67%	24.75%	5.305
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	9	9	3.825	0.5513	0.5178	0.2676	0.5829	13.54%	7.00%	15.24%	2.178
019.41	Calcium, ICP, Dry ash (%)	9	8	0.6807	0.0150	0.0066	0.0100	0.0120	0.97%	1.48%	1.77%	1.198
019.43	Calcium, ICP, Microwave (%)	11	10	0.7041	0.0204	0.0183	0.0126	0.0222	2.60%	1.79%	3.16%	1.760
019.44	Calcium, ICP, Dry ash (%)	11	9	0.6908	0.0171	0.0174	0.0069	0.0187	2.52%	1.00%	2.71%	2.703
022.43	Copper, ICP, Microwave (ppm)	8	7	8.041	1.855	0.6850	0.2266	0.7215	9.22%	3.05%	9.72%	3.183
025.41	Iron, ICP, Dry ash (ppm)	7	7	1,084	104.8	102.2	32.81	107.3	9.43%	3.03%	9.90%	3.271
025.43	Iron, ICP, Microwave (ppm)	10	9	1,108	54.75	51.64	25.72	57.69	4.66%	2.32%	5.21%	2.243
027.41	Magnesium, ICP, Dry ash (%)	8	8	0.1787	0.0050	0.0040	0.0043	0.0059	2.26%	2.39%	3.29%	1.376
027.43	Magnesium, ICP, Microwave (%)	9	9	0.1802	0.0080	0.0073	0.0044	0.0085	4.06%	2.46%	4.74%	1.930
027.44	Magnesium, ICP, Dry ash (%)	9	8	0.1846	0.0048	0.0026	0.0028	0.0038	1.43%	1.51%	2.09%	1.378
028.41	Manganese, ICP, Dry ash (ppm)	6	6	30.72	0.6852	0.4811	0.6901	0.8412	1.57%	2.25%	2.74%	1.219
028.43	Manganese, ICP, Microwave (ppm)	8	6	31.04	1.752	0.7925	0.4172	0.8956	2.51%	1.32%	2.84%	2.146
031.41	Phosphorus, ICP, Dry ash (%)	8	8	0.3168	0.0082	0.0075	0.0048	0.0089	2.36%	1.51%	2.80%	1.860
031.43	Phosphorus, ICP, Microwave (%)	9	9	0.3299	0.0118	0.0111	0.0057	0.0124	3.35%	1.73%	3.77%	2.185
031.44	Phosphorus, ICP, Dry ash (%)	9	6	0.3246	0.0074	0.0040	0.0006	0.0041	1.23%	0.20%	1.25%	6.321
032.41	Potassium, ICP, Dry ash (%)	11	11	1.960	0.0774	0.0594	0.0700	0.0918	3.03%	3.57%	4.68%	1.312
032.43	Potassium, ICP, Microwave (%)	11	9	2.023	0.0625	0.0401	0.0291	0.0496	1.97%	1.43%	2.43%	1.702
032.44	Potassium, ICP, Dry ash (%)	11	9	1.956	0.0381		0.0453			2.33%		
035.41	Sodium, ICP, Dry ash (%)	17	14	0.1547	0.0112	0.0113	0.0015	0.0114	7.22%	0.98%	7.29%	7.406
035.43	Sodium, ICP, Microwave (%)	9	8	0.1414	0.0057	0.0055	0.0021	0.0059	3.92%	1.48%	4.19%	2.829
036.43	Sulfur, ICP, Microwave (%)	8	8	0.1399	0.0115	0.0113	0.0029	0.0117	8.09%	2.04%	8.35%	4.096
037.43	Zinc, ICP, Microwave (ppm)	8	7	39.75	3.651	3.865	0.8374	3.955	9.77%	2.12%	9.99%	4.723

Notes: Precision Calculations provided for methods with 5 or more labs contributing to calculations.