



AAFCO
Proficiency Testing Program



Pet Food Ingredient Scheme

Brewer's Rice

Test Material Code # 202044

Method Summary Report

(Precision Report Follows)

Labs Reporting: 68

Methods Reported: 202

Issue Date : 12/31/2020

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 (%)	22	21	11.46	0.4073	11.55	0.2392	0.0653	2.07%	0.1219	2.77%
001.99	Loss on Drying, Miscellaneous (%)	8	8	11.15	0.7541	11.27	0.3961	0.1750	3.51%	0.1975	2.78%
001.00	Loss on Drying, Vac 95°C 5 hr (%)	3	3	11.29	0.5543	11.29	0.5543	0.3200	4.91%	0.1383	2.78%
001.03	Loss on Drying, Low temp. methods (%)	2	2	11.33	0.0447						
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	55	54	8.335	0.2971	8.319	0.1601	0.0272	1.92%	0.1143	2.91%
002.01	Protein, Crude, Auto Kjell-Foss (%)	4	4	8.365	0.1835	8.365	0.1835	0.0917	2.19%	0.1133	2.91%
002.04	Protein, Crude, Copper Catalyst (%)	2	2	8.303	0.1096						
002.05	Protein, Crude, Copper, Boric Acid (%)	2	2	8.283	0.0884						
002.08	Protein, Crude, Cu/Ti (%)	2	2	8.300	0.0566						
002.11	Protein, Crude, NIR (%)	2	2	8.945	1.400						
002.00	Protein, Crude, Crude (%)	1	1	9.180							
003.14	Fat, Crude, Ankom (%)	13	13	1.313	0.3444	1.260	0.2485	0.0862	19.73%	0.1110	3.86%
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	10	10	1.161	0.1227	1.159	0.1333	0.0527	11.51%	0.1409	3.91%
003.10	Fat, Crude, Randall, Pet Ether (%)	10	9	1.303	0.1348	1.300	0.1258	0.0524	9.67%	0.0574	3.84%
003.06	Fat, Crude, Pet Ether (%)	4	3	1.377	0.0931	1.377	0.0931	0.0537	6.76%	0.0133	3.81%
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	2	2	1.423	0.0680						
003.11	Fat, Crude, NIR (%)	2	2	0.9675	0.4985						
003.13	Fat, Crude, Randall, Hexane Ext. (%)	2	2	1.498	0.0239						
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirect (%)	1	1	0.6700							
003.12	Fat, Crude, Hexane Ext (%)	1	1	1.425							
003.99	Fat, Crude, Miscellaneous (%)	1	1	2.800							
004.07	Fiber, Crude, ANKOM (%)	19	16	0.4884	0.1595	0.4888	0.1730	0.0541	35.40%	0.0669	4.45%
004.00	Fiber, Crude, Asbestos Free (%)	8	8	0.5203	0.1281	0.5209	0.1437	0.0635	27.59%	0.0900	4.41%
004.06	Fiber, Crude, Fibertec (%)	4	4	0.7388	0.1597	0.7388	0.1597	0.0798	21.61%	0.0925	4.19%
004.03	Fiber, Crude, Fritted Glass (%)	1	1	0.5000							
005.00	Ash, 2h @ 600°C (%)	42	41	0.9715	0.0597	0.9748	0.0509	0.0099	5.22%	0.0463	4.02%
005.05	Ash, 3h @ 550°C (%)	7	7	0.9585	0.1072	0.9899	0.0338	0.0160	3.42%	0.0913	4.01%
005.99	Ash, Miscellaneous (%)	4	3	0.9767	0.0231	0.9767	0.0231	0.0163	2.36%	0.0313	4.01%
005.11	Ash, NIR (%)	2	2	2.743	2.988						

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005.03	Ash, Microwave furnace (%)	1	1	0.9700							
006.00	Total Sugars, As sucrose (%)	1	1	0.7350							
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	7	7	1.137	0.2492	1.128	0.2608	0.1232	23.12%	0.1272	3.93%
008.02	Fiber, Acid Detergent, Crucible (%)	2	2	1.029	0.2633						
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	6	6	1.912	0.4884	1.912	0.5538	0.2826	28.97%	0.1316	3.63%
009.04	Fiber, Neutral Detergent, Neutral Det-No ENZ Pretreat (%)	1	1	1.595							
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	1	1	2.473							
009.99	Fiber, Neutral Detergent, Miscellaneous (%)	1	1	3.135							
010.11	Moisture, NIR (%)	2	2	11.66	0.2192						
010.99	Moisture, Miscellaneous (%)	2	2	11.30	0.0688						
010.03	Moisture, Karl-Fischer (%)	1	1	11.45							
011.01	Loss on Drying, 135°C 2hr (%)	21	20	12.14	0.3326	12.16	0.3350	0.0936	2.75%	0.1344	2.75%
011.02	Loss on Drying, 130°C for 2 hours (%)	3	3	12.19	0.3208	12.19	0.3208	0.1852	2.63%	0.0700	2.75%
011.03	Loss on Drying, 130°C, 1 hour, Flour (%)	1	1	11.63							
011.99	Loss on Drying, High Temp. Methods Miscellaneous (%)	1	1	11.69							
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	5	4	69.95	4.350	69.95	4.350	2.175	6.22%	1.117	1.20%
012.00	Starch, Polarimetric (Ewers) (%)	3	3	72.53	3.860	72.53	3.860	2.229	5.32%	0.8433	1.17%
012.03	Starch, Enzymatic-Colorimetric Method, Miscellaneous (%)	2	2	68.84	5.595						
012.04	Starch, Enzymatic-Enzyme Membrane Technology (YSI) (%)	2	2	70.35	1.697						
012.11	Starch, NIR (%)	1	1	69.39							
013.02	Fat, Acid Pretreat, Mojonier, Bak Ext (%)	10	10	2.092	0.1990	2.097	0.2144	0.0848	10.23%	0.1582	3.58%
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	8	8	1.700	0.3946	1.700	0.4475	0.1978	26.33%	0.1090	3.69%
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	2	2	1.935	0.1202						
013.13	Fat, Acid Pretreat, Ankom- Acid Hydrolysis (%)	2	2	2.750	0.1915						
015.43	Aluminum, ICP, Microwave (ppm)	3	3	8.939	1.237	8.939	1.237	0.7139	13.83%	0.7070	11.50%
015.41	Aluminum, ICP, Dry ash (ppm)	2	2	12.78	4.559						
015.53	Aluminum, ICP-MS, Microwave (ppm)	2	2	12.46	2.243						
017.43	Boron, ICP, Microwave (ppm)	3	3	3.033	3.438	3.033	3.438	2.431	113.35%	0.0483	13.54%
017.53	Boron, ICP-MS, Microwave (ppm)	2	2	2.406	1.929						
017.41	Boron, ICP, Dry ash (ppm)	1	1	1.504							
019.43	Calcium, ICP, Microwave (%)	14	13	0.0633	0.0127	0.0645	0.0091	0.0031	14.05%	0.0030	6.04%
019.41	Calcium, ICP, Dry ash (%)	12	12	0.0662	0.0067	0.0650	0.0045	0.0016	6.90%	0.0036	6.04%
019.44	Calcium, ICP, Dry ash (%)	10	10	0.0615	0.0043	0.0624	0.0021	0.0008	3.42%	0.0036	6.07%
019.31	Calcium, AAS, Dry ash (%)	3	3	0.0519	0.0385	0.0519	0.0385	0.0272	74.19%	0.0106	6.24%
019.42	Calcium, ICP, Open vessel (%)	2	2	0.0627	0.0033						
019.53	Calcium, ICP-MS, Microwave (%)	2	2	0.0667	0.0035						
019.99	Calcium, Miscellaneous (%)	2	2	0.0400	0.0141						
021.53	Cobalt, ICP-MS, Microwave (ppm)	3	3	0.0982	0.0539	0.0982	0.0539	0.0311	54.93%	0.0112	22.00%
021.41	Cobalt, ICP, Dry ash (ppm)	2	2	0.1166	0.0517						
021.43	Cobalt, ICP, Microwave (ppm)	2	2	0.2132	0.1035						

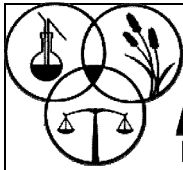
Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO ffp Robust SD	Uncertainty (U) Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
021.31	Cobalt, AAS, Dry ash (ppm)	1		0.7500							
022.43	Copper, ICP, Microwave (ppm)	9	8	3.178	0.9045	3.178	1.026	0.4533	32.28%	0.1123	13.44%
022.41	Copper, ICP, Dry ash (ppm)	6	6	2.580	0.4398	2.580	0.4987	0.2545	19.33%	0.2014	13.87%
022.42	Copper, ICP, Open vessel (ppm)	2	2	2.569	0.4016						
022.53	Copper, ICP-MS, Microwave (ppm)	2	2	2.607	0.0328						
022.99	Copper, Miscellaneous (ppm)	1	1	1.000							
025.43	Iron, ICP, Microwave (ppm)	11	10	30.06	5.036	29.97	5.507	2.177	18.38%	2.259	9.59%
025.41	Iron, ICP, Dry ash (ppm)	9	8	29.26	1.450	29.25	1.644	0.7268	5.62%	2.366	9.62%
025.31	Iron, AAS, Dry ash (ppm)	2	2	33.01	3.023						
025.42	Iron, ICP, Open vessel (ppm)	2	2	27.88	3.359						
025.53	Iron, ICP-MS, Microwave (ppm)	2	2	30.52	1.235						
025.99	Iron, Miscellaneous (ppm)	1	1	25.50							
027.41	Magnesium, ICP, Dry ash (%)	13	13	0.0629	0.0061	0.0639	0.0018	0.0006	2.88%	0.0023	6.05%
027.43	Magnesium, ICP, Microwave (%)	13	13	0.0657	0.0056	0.0656	0.0059	0.0021	9.06%	0.0019	6.03%
027.44	Magnesium, ICP, Dry ash (%)	8	8	0.0762	0.0440	0.0614	0.0036	0.0016	5.80%	0.0035	6.09%
027.31	Magnesium, AAS, Dry ash (%)	3	3	0.0652	0.0062	0.0652	0.0062	0.0036	9.56%	0.0047	6.03%
027.42	Magnesium, ICP, Open vessel (%)	2	2	0.0611	0.0016						
027.53	Magnesium, ICP-MS, Microwave (%)	2	2	0.0658	0.0016						
027.33	Magnesium, AAS, Microwave (%)	1	1	0.0600							
027.99	Magnesium, Miscellaneous (%)	1	1	0.0600							
028.43	Manganese, ICP, Microwave (ppm)	9	9	22.39	2.135	22.39	2.421	1.009	10.81%	1.000	10.02%
028.41	Manganese, ICP, Dry ash (ppm)	6	6	22.49	0.7153	22.48	0.7802	0.3982	3.47%	0.7370	10.01%
028.53	Manganese, ICP-MS, Microwave (ppm)	2	2	23.18	2.445						
028.42	Manganese, ICP, Open vessel (ppm)	1	1	20.81							
028.99	Manganese, Miscellaneous (ppm)	1	1	20.50							
031.41	Phosphorus, ICP, Dry ash (%)	11	11	0.1994	0.0078	0.1989	0.0076	0.0029	3.84%	0.0071	5.10%
031.43	Phosphorus, ICP, Microwave (%)	9	9	0.2023	0.0120	0.2030	0.0120	0.0050	5.92%	0.0073	5.08%
031.44	Phosphorus, ICP, Dry ash (%)	7	7	0.1692	0.0484	0.1864	0.0043	0.0020	2.30%	0.0050	5.15%
031.53	Phosphorus, ICP-MS, Microwave (%)	2	2	0.2042	0.0045						
031.99	Phosphorus, Miscellaneous (%)	2	2	0.2025	0.0318						
031.01	Phosphorus, Photometric (%)	1	1	0.1990							
031.42	Phosphorus, ICP, Open vessel (%)	1	1	0.1917							
032.41	Potassium, ICP, Dry ash (%)	10	10	0.1792	0.0069	0.1787	0.0066	0.0026	3.69%	0.0047	5.18%
032.43	Potassium, ICP, Microwave (%)	9	9	0.1811	0.0139	0.1817	0.0146	0.0061	8.04%	0.0110	5.17%
032.44	Potassium, ICP, Dry ash (%)	7	7	0.1489	0.0580	0.1700	0.0000	0.0000	0.00%	0.0087	5.22%
032.53	Potassium, ICP-MS, Microwave (%)	2	2	0.1833	0.0082						
032.42	Potassium, ICP, Open vessel (%)	1	1	0.1754							
032.99	Potassium, Miscellaneous (%)	1	1	0.1600							
033.01	Salt as chloride, Poten Cl (%)	4	3	0.0828	0.0279	0.0828	0.0279	0.0197	33.70%	0.0037	5.82%
033.00	Salt as chloride, Sol Cl (%)	1	1	0.0736							

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033.05	Salt as chloride, Ion Sel Electrode (%)	1	1	0.0610							
033.99	Salt, Miscellaneous (%)	1	1	0.0550							
034.53	Selenium, ICP-MS, Microwave (ppm)	3	3	0.1945	0.0600	0.1945	0.0600	0.0346	30.85%	0.0095	20.47%
034.04	Selenium, AA, Hydride (ppm)	2	2	0.1593	0.0223						
035.41	Sodium, ICP, Dry ash (%)	17	16	0.0136	0.0053	0.0136	0.0060	0.0019	44.42%	0.0032	7.64%
035.43	Sodium, ICP, Microwave (%)	9	8	0.0093	0.0029	0.0093	0.0032	0.0014	35.12%	0.0003	8.09%
035.53	Sodium, ICP-MS, Microwave (%)	2	2	0.0061	0.0007						
035.42	Sodium, ICP, Open vessel (%)	1	1	0.0064							
035.99	Sodium, Miscellaneous (%)	1		0.0100							
036.43	Sulfur, ICP, Microwave (%)	8	8	0.1037	0.0101	0.1037	0.0114	0.0051	11.03%	0.0045	5.63%
036.42	Sulfur, ICP, Open vessel (%)	4	4	0.1004	0.0060	0.1004	0.0060	0.0030	5.94%	0.0009	5.65%
036.53	Sulfur, ICP-MS, Microwave (%)	1	1	0.1075							
036.99	Sulfur, Miscellaneous (%)	1		0.1000							
037.43	Zinc, ICP, Microwave (ppm)	9	9	19.49	2.664	19.47	2.977	1.241	15.30%	0.9699	10.23%
037.41	Zinc, ICP, Dry ash (ppm)	6	6	19.20	1.338	19.20	1.517	0.7744	7.90%	1.343	10.25%
037.42	Zinc, ICP, Open vessel (ppm)	2	2	17.42	2.762						
037.53	Zinc, ICP-MS, Microwave (ppm)	2	2	19.75	0.1402						
037.99	Zinc, Miscellaneous (ppm)	1	1	16.00							
038.43	Molybdenum, ICP, Microwave (ppm)	3	3	1.127	0.0697	1.127	0.0697	0.0493	6.19%	0.0586	15.71%
038.53	Molybdenum, ICP-MS, Microwave (ppm)	3	3	0.9888	0.0744	0.9888	0.0744	0.0429	7.52%	0.0375	16.02%
038.41	Molybdenum, ICP, Dry ash (ppm)	2	2	0.9230	0.1641						
040.53	Barium, ICP-MS, Microwave (ppm)	2	2	0.4259	0.0861						
041.53	Vanadium, ICP-MS, Microwave (ppm)	2	2	0.0413	0.0050						
105.00	Thiamine, LC (ppm)	1	1	2.430							
106.02	Vitamin A, LC (KU / kg)	2	2	0.0620	0.0170						
108.99	Vitamin D3, Miscellaneous (KU / kg)	1		0.2000							
109.02	Vitamin E, LC (IU / kg)	2	2	3.709	5.241						
112.01	Pyridoxine, LC (µg / g)	1	1	0.3300							
120.00	Alanine, Post-col Ninhydrin Der (%)	4	4	0.4538	0.0063	0.4538	0.0063	0.0031	1.39%	0.0089	4.50%
120.05	Alanine, Pre-col AQC Der (%)	1	1	0.4425							
121.00	Arginine, Post-col Ninhydrin Der (%)	4	4	0.5888	0.0264	0.5888	0.0264	0.0132	4.48%	0.0100	4.33%
121.05	Arginine, Pre-col AQC Der (%)	1	1	0.6370							
122.00	Aspartic, Post-col Ninhydrin Der (%)	4	4	0.6977	0.0166	0.6977	0.0166	0.0083	2.38%	0.0162	4.22%
122.05	Aspartic, Pre-col AQC Der (%)	1	1	0.6480							
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin Der (%)	4	4	0.1613	0.0261	0.1613	0.0261	0.0131	16.18%	0.0068	5.26%
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	1	1	0.1557							
125.00	Glutamic, Post-col Ninhydrin Der (%)	4	4	1.385	0.0484	1.385	0.0484	0.0242	3.49%	0.0298	3.81%
125.05	Glutamic, Pre-col AQC Der (%)	1	1	1.345							
126.00	Glycine, Post-col Ninhydrin Der (%)	4	4	0.3756	0.0085	0.3756	0.0085	0.0043	2.27%	0.0053	4.63%
126.05	Glycine, Pre-col AQC Der (%)	1	1	0.4035							

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127.00	Histidine, Post-col Ninhydrin Der (%)	4	3	0.1922	0.0069	0.1922	0.0069	0.0049	3.61%	0.0001	5.13%
127.05	Histidine, Pre-col AQC Der (%)	1	1	0.1780							
128.00	Isoleucine, Post-col Ninhydrin Der (%)	4	4	0.3194	0.0215	0.3194	0.0215	0.0107	6.72%	0.0038	4.75%
128.05	Isoleucine, Pre-col AQC Der (%)	1	1	0.2965							
129.00	Leucine, Post-col Ninhydrin Der (%)	4	4	0.6481	0.0063	0.6481	0.0063	0.0032	0.98%	0.0143	4.27%
129.05	Leucine, Pre-col AQC Der (%)	1	1	0.6315							
130.00	L-Lysine, Post-col Ninhydrin Der (%)	4	3	0.3205	0.0256	0.3205	0.0256	0.0181	7.99%	0.0007	4.75%
130.05	L-Lysine, Pre-col AQC Der (%)	1	1	0.2780							
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	4	4	0.1976	0.0290	0.1976	0.0290	0.0145	14.67%	0.0074	5.11%
131.05	Methionine, PAO Pre-col AQC Der (%)	1	1	0.6146							
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	4	4	0.4348	0.0551	0.4348	0.0551	0.0276	12.67%	0.0059	4.53%
132.05	Phenylalanine, Pre-col AQC Der (%)	1	1	0.3795							
133.00	Proline, Post-col Ninhydrin Der (%)	4	4	0.3784	0.0267	0.3784	0.0267	0.0133	7.05%	0.0128	4.63%
133.05	Proline, Pre-col AQC Der (%)	1	1	0.3695							
134.00	Serine, Post-col Ninhydrin Der (%)	4	4	0.3938	0.0201	0.3938	0.0201	0.0101	5.11%	0.0107	4.60%
134.05	Serine, Pre-col AQC Der (%)	1	1	0.2950							
135.00	Threonine, Post-col Ninhydrin Der (%)	4	4	0.2786	0.0089	0.2786	0.0089	0.0044	3.19%	0.0049	4.85%
135.05	Threonine, Pre-col AQC Der (%)	1	1	0.2280							
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	3	3	0.1589	0.0426	0.1589	0.0426	0.0246	26.79%	0.0039	5.28%
136.05	Tryptophan, Pre-col AQC Der (%)	1	1	0.1575							
136.99	Tryptophan, Miscellaneous (%)	1	1	0.0750							
137.00	Tyrosine, Post-col Ninhydrin Der (%)	4	4	0.2451	0.0732	0.2451	0.0732	0.0366	29.88%	0.0099	4.94%
137.05	Tyrosine, Pre-col AQC Der (%)	1	1	0.2895							
138.00	Valine, Post-col Ninhydrin Der (%)	4	3	0.4707	0.0290	0.4707	0.0290	0.0205	6.16%	0.0006	4.48%
138.05	Valine, Pre-col AQC Der (%)	1	1	0.4495							
139.00	Taurine, Post-col Ninhydrin Der (%)	1	1	0.1700							
139.05	Taurine, Pre-col AQC Der (%)	1	1	0.0075							
160.99	Fructose, Miscellaneous (%)	1	1	0.0045							
162.99	Glucose, Miscellaneous (%)	1	1	0.0045							
163.99	Lactose, Miscellaneous (%)	1	1	0.0000							
165.99	Sucrose, Miscellaneous (%)	1	1	0.3495							
400.01	Water Activity, Aqualab chilled mirror (Units)	3	3	0.4838	0.0023	0.4838	0.0023	0.0013	0.47%	0.0031	
516.53	Arsenic, Total, ICP-MS, Microwave (ppm)	4	4	0.2166	0.0210	0.2166	0.0210	0.0105	9.68%	0.0114	20.14%
516.00	Arsenic, Total, AA, Hydride (ppm)	2	1	0.2210							
516.52	Arsenic, Total, ICP-MS, Open vessel (ppm)	1	1	0.2300							
516.43	Arsenic, Total, ICP, Microwave (ppm)	2	1	0.0000							
518.53	Cadmium, ICP-MS, Microwave (ppm)	4	4	0.0176	0.0055	0.0176	0.0055	0.0027	31.06%	0.0019	22.00%
518.41	Cadmium, ICP, Dry ash (ppm)	2	2	0.0230	0.0064						
518.42	Cadmium, ICP, Open vessel (ppm)	1	1	0.0200							
518.43	Cadmium, ICP, Microwave (ppm)	2	1	0.0398							

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
520.53	Chromium, ICP-MS, Microwave (ppm)	3	3	0.4220	0.1355	0.4220	0.1355	0.0958	32.11%	0.0325	18.21%
520.41	Chromium, ICP, Dry ash (ppm)	2	2	0.9718	0.6269						
520.43	Chromium, ICP, Microwave (ppm)	2	2	0.6020	0.3634						
520.42	Chromium, ICP, Open vessel (ppm)	1	1	0.7130							
526.53	Lead, ICP-MS, Microwave (ppm)	4	3	0.0201	0.0012	0.0201	0.0012	0.0007	5.77%	0.0023	22.00%
526.41	Lead, ICP, Dry ash (ppm)	2	2	0.0422	0.0278						
526.42	Lead, ICP, Open vessel (ppm)	1	1	0.0525							
526.43	Lead, ICP, Microwave (ppm)	1	1	0.1624							
529.99	Mercury, Miscellaneous (ppb)	1	1	3.162							
539.53	Nickel, ICP-MS, Microwave (ppm)	3	3	0.3501	0.1388	0.3501	0.1388	0.0801	39.65%	0.0244	18.73%
539.41	Nickel, ICP, Dry ash (ppm)	2	2	0.6435	0.2454						
539.42	Nickel, ICP, Open vessel (ppm)	1	1	0.5130							
539.43	Nickel, ICP, Microwave (ppm)	1	1	0.7796							

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.



AAFCO
Proficiency Testing Program



Pet Food Ingredient Scheme

Brewer's Rice

Test Material Code # 202044

Method Precision Report

Methods Reported: 23

Labs Reporting: 68

Issue Date : 12/31/2020

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 (%)	22	19	11.46	0.4073	0.3331	0.0949	0.3464	2.90%	0.83%	3.01%	3.651
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	55	50	8.335	0.2971	0.1505	0.0882	0.1745	1.81%	1.06%	2.10%	1.977
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	10	10	1.161	0.1227	0.0646	0.1476	0.1611	5.56%	12.71%	13.87%	1.092
003.10	Fat, Crude, Randall, Pet Ether (%)	10	9	1.303	0.1348	0.1302	0.0490	0.1391	9.99%	3.76%	10.68%	2.841
003.14	Fat, Crude, Ankom (%)	13	12	1.313	0.3444	0.2025	0.1063	0.2287	16.37%	8.59%	18.49%	2.152
004.07	Fiber, Crude, ANKOM (%)	19	15	0.4884	0.1595	0.1549	0.0480	0.1622	32.45%	10.06%	33.98%	3.377
005.00	Ash, 2h @ 600°C (%)	42	39	0.9715	0.0597	0.0468	0.0358	0.0589	4.78%	3.67%	6.03%	1.643
011.01	Loss on Drying, 135°C 2hr (%)	21	20	12.14	0.3326	0.3198	0.1293	0.3449	2.63%	1.06%	2.84%	2.668
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	8	8	1.700	0.3946	0.3889	0.0941	0.4002	22.88%	5.54%	23.54%	4.251
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	10	10	2.092	0.1990	0.1753	0.1332	0.2201	8.38%	6.37%	10.52%	1.653
019.41	Calcium, ICP, Dry ash (%)	12	11	0.0662	0.0067	0.0037	0.0034	0.0050	5.65%	5.31%	7.75%	1.460
019.43	Calcium, ICP, Microwave (%)	14	11	0.0633	0.0127	0.0083	0.0025	0.0087	12.55%	3.71%	13.09%	3.527
019.44	Calcium, ICP, Dry ash (%)	10	8	0.0615	0.0043		0.0019			2.99%		
025.43	Iron, ICP, Microwave (ppm)	11	9	30.06	5.036	4.080	0.9042	4.179	14.04%	3.11%	14.38%	4.621
027.41	Magnesium, ICP, Dry ash (%)	13	12	0.0629	0.0061	0.0019	0.0021	0.0028	2.87%	3.30%	4.37%	1.326
027.43	Magnesium, ICP, Microwave (%)	13	13	0.0657	0.0056	0.0054	0.0018	0.0057	8.21%	2.77%	8.66%	3.132
028.43	Manganese, ICP, Microwave (ppm)	9	9	22.39	2.135	1.998	1.067	2.265	8.92%	4.76%	10.11%	2.123
031.41	Phosphorus, ICP, Dry ash (%)	11	11	0.1994	0.0078	0.0059	0.0073	0.0094	2.94%	3.67%	4.70%	1.280
031.43	Phosphorus, ICP, Microwave (%)	9	9	0.2023	0.0120	0.0107	0.0077	0.0132	5.31%	3.80%	6.53%	1.716
032.41	Potassium, ICP, Dry ash (%)	10	9	0.1792	0.0069	0.0061	0.0048	0.0078	3.42%	2.70%	4.35%	1.613
032.43	Potassium, ICP, Microwave (%)	9	9	0.1811	0.0139	0.0118	0.0105	0.0158	6.52%	5.79%	8.72%	1.507
035.41	Sodium, ICP, Dry ash (%)	17	16	0.0136	0.0053	0.0045	0.0040	0.0060	33.33%	29.10%	44.25%	1.521
037.43	Zinc, ICP, Microwave (ppm)	9	9	19.49	2.664	2.579	0.9457	2.747	13.23%	4.85%	14.10%	2.904

Notes: Precision Calculations provided for methods with 8 or more labs contributing to calculations.