

Pet Food Ingredient Scheme
Method Proficiency Testing Report by Labs
Test Material Code # 202542
Wheat Bran



AAFCO
 Association of American Feed Control Officials

Z Scores for This Sample
 Action **48** 5.5%
 Warning **26** 3.0%
 Compliant **805** 91.6%



Labs Reporting: 101

Tests 1,275

Methods 237

Flag 4
 # 0 Values 9
 Ident. Dups 146
 Limits 15

Data Removed Flag 3 0
 # Mandel Flags 26

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	Rob R-bar	# Labs			
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0001	15.03	0.2600	16.02	0.3356	0.1257	85	-2.94	3%	0
005.00	Ash, 2h @ 600°C (%)	0001	5.721	0.1120	5.803	0.1018	0.0807	56	-0.80	1%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0001	11.57	0.2570	11.55	0.8687	0.2567	10	0.02	0%	0
013.02	Fat, Pretreat, Mojonner, Bak Ext, Acid hydrolysis	0001	4.534	0.4500	3.734	1.562	0.4196	14	0.51	11%	0
019.31	Calcium, AAS, Dry ash (%)	0001	0.0792	0.0029				2			0
019.43	Calcium, ICP, Microwave (%)	0001	0.0755	0.0010	0.0794	0.0042	0.0042	21	-0.93	2%	0
022.43	Copper, ICP, Microwave (ppm)	0001	10.10	0.2000	10.21	0.3821	0.3959	19	-0.30	1%	0
025.31	Iron, AAS, Dry ash (ppm)	0001	114.5	0.3000				2			0
025.43	Iron, ICP, Microwave (ppm)	0001	112.0	8.000	118.7	6.688	2.009	10	-1.00	3%	0
027.31	Magnesium, AAS, Dry ash (%)	0001	0.4886	0.0075				3			0
027.43	Magnesium, ICP, Microwave (%)	0001	0.4545	0.0010	0.5042	0.0318	0.0105	21	-1.56	5%	0
028.31	Manganese, AAS, Dry ash (ppm)	0001	140.2	4.500				2			0
028.43	Manganese, ICP, Microwave (ppm)	0001	130.5	5.000	140.3	5.246	4.746	20	-1.88	4%	0
031.03	Phosphorus, Autoanalyzer (%)	0001	1.347	0.0170				1			0
031.43	Phosphorus, ICP, Microwave (%)	0001	1.230	0.0600	1.324	0.0719	0.0409	20	-1.31	4%	0
032.43	Potassium, ICP, Microwave (%)	0001	1.350	0.0200	1.419	0.0536	0.0329	20	-1.29	2%	0
037.31	Zinc, AAS, Dry ash (ppm)	0001	73.61	1.690				2			0
037.43	Zinc, ICP, Microwave (ppm)	0001	69.05	3.300	72.84	5.149	3.364	21	-0.74	3%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0003	11.73	0.0800	11.57	0.2972	0.0794	55	0.53	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0003	16.37	0.5700	16.02	0.3356	0.1257	85	1.04	1%	0
003.14	Fat, Crude, Ankom (%)	0003	1.540	0.7400	1.738	0.2668	0.1681	15	-0.74	6%	0
004.07	Fiber, Crude, ANKOM (%)	0003	8.730	0.6600	9.285	0.8652	0.3634	23	-0.64	3%	0
005.05	Ash, 3h @ 550°C (%)	0003	5.870	0.1400	5.879	0.1219	0.1191	13	-0.07	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0010	11.20	0 Range	11.57	0.2972	0.0794	55	-1.26	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0010	16.04	0.0100	16.02	0.3356	0.1257	85	0.07	0%	0
019.43	Calcium, ICP, Microwave (%)	0010	0.0845	0.0010	0.0794	0.0042	0.0042	21	1.20	3%	0
022.43	Copper, ICP, Microwave (ppm)	0010	10.90	0.2000	10.21	0.3821	0.3959	19	1.79	3%	0
025.43	Iron, ICP, Microwave (ppm)	0010	118.2	0.2000	118.7	6.688	2.009	10	-0.07	0%	0
027.43	Magnesium, ICP, Microwave (%)	0010	0.5100	0.0400	0.5042	0.0318	0.0105	21	0.18	1%	0
028.43	Manganese, ICP, Microwave (ppm)	0010	136.0	5.100	140.3	5.246	4.746	20	-0.84	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0010	1.285	0.0500	1.324	0.0719	0.0409	20	-0.54	1%	0
032.43	Potassium, ICP, Microwave (%)	0010	1.425	0.0100	1.419	0.0536	0.0329	20	0.10	0%	0
037.43	Zinc, ICP, Microwave (ppm)	0010	71.25	5.100	72.84	5.149	3.364	21	-0.31	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0028	11.65	0.0400	11.57	0.2972	0.0794	55	0.26	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0028	16.32	0.0630	16.02	0.3356	0.1257	85	0.91	1%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
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003.14	Fat, Crude, Ankom (%)	0028	1.973	0.8750	1.738	0.2668	0.1681	15	0.88	7%	0
004.07	Fiber, Crude, ANKOM (%)	0028	9.988	0.0720	9.285	0.8652	0.3634	23	0.81	4%	0
019.43	Calcium, ICP, Microwave (%)	0028	0.0810	0 Range	0.0794	0.0042	0.0042	21	0.37	1%	0
022.43	Copper, ICP, Microwave (ppm)	0028	10.19	0.2900	10.21	0.3821	0.3959	19	-0.08	0%	0
025.43	Iron, ICP, Microwave (ppm)	0028	122.6	2.450	118.7	6.688	2.009	10	0.59	2%	0
027.43	Magnesium, ICP, Microwave (%)	0028	0.4885	0.0030	0.5042	0.0318	0.0105	21	-0.49	2%	0
028.43	Manganese, ICP, Microwave (ppm)	0028	145.9	2.970	140.3	5.246	4.746	20	1.07	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0028	1.321	0.0090	1.324	0.0719	0.0409	20	-0.05	0%	0
032.43	Potassium, ICP, Microwave (%)	0028	1.324	0.0070	1.419	0.0536	0.0329	20	-1.79	3%	0
037.43	Zinc, ICP, Microwave (ppm)	0028	68.65	0.3100	72.84	5.149	3.364	21	-0.82	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0034	16.78	0.4180	16.02	0.3356	0.1257	85	2.28	2%	0
003.14	Fat, Crude, Ankom (%)	0034	1.740	0.1000	1.738	0.2668	0.1681	15	0.01	0%	0
004.07	Fiber, Crude, ANKOM (%)	0034	9.130	0.4000	9.285	0.8652	0.3634	23	-0.18	1%	0
005.05	Ash, 3h @ 550°C (%)	0034	5.771	0.2556	5.879	0.1219	0.1191	13	-0.89	1%	0
010.99	Moisture, Miscellaneous (%)	0034	11.61	0.0600	11.80	0.5411	0.0548	5			0
002.11	Protein, Crude, NIR (%)	0047	15.37	0.1400				2			0
003.11	Fat, Crude, NIR (%)	0047	3.105	0.0700				2			0
004.11	Fiber, Crude, NIR (%)	0047	8.640	0.2000				2			0
005.11	Ash, NIR (%)	0047	6.095	0.1700				1			0
010.11	Moisture, NIR (%)	0047	11.61	0.0600				2			0
019.52	Calcium, ICP-MS, Open vessel (%)	0047	0.1200	0.0200				1			0
022.52	Copper, ICP-MS, Open vessel (ppm)	0047	11.32	1.230				2			0
025.52	Iron, ICP-MS, Open vessel (ppm)	0047	138.0	9.350				1			0
027.52	Magnesium, ICP-MS, Open vessel (%)	0047	0.4350	0.0100				1			0
028.52	Manganese, ICP-MS, Open vessel (ppm)	0047	124.9	1.900				1			0
031.42	Phosphorus, ICP, Open vessel (%)	0047	1.405	0.0100	1.276	0.1047	0.0067	4			0
032.42	Potassium, ICP, Open vessel (%)	0047	1.520	0.0400	1.420	0.1118	0.0250	4			0
034.52	Selenium, Total (Se), ICP-MS, Open vessel (ppm)	0047	0.1050	0.0100				1			0
037.52	Zinc, ICP-MS, Open vessel (ppm)	0047	70.87	9.530				2			0
038.52	Molybdenum, ICP-MS, Open vessel (ppm)	0047	0.8050	0.0100				2			0
400.99	Water Activity, Miscellaneous (Units)	0051	0.5740	0 Range				2			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0074	11.50	1.000	11.57	0.2972	0.0794	55	-0.25	0%	1
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0074	15.91	0.1700	16.02	0.3356	0.1257	85	-0.33	0%	0
003.14	Fat, Crude, Ankom (%)	0074	1.630	0.1200	1.738	0.2668	0.1681	15	-0.40	3%	0
004.07	Fiber, Crude, ANKOM (%)	0074	10.35	0.1900	9.285	0.8652	0.3634	23	1.22	6%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0098	11.68	0.0800	11.57	0.2972	0.0794	55	0.36	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0098	15.55	0.1000	16.02	0.3356	0.1257	85	-1.39	1%	0
002.08	Protein, Crude, Cu/Ti (%)	0098	16.01	0.0900				1			0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	0098	2.125	0.0700	1.489	0.2251	0.0392	10	2.82	21%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0098	1.980	0 Range	1.639	0.1829	0.0464	19	1.86	10%	0
003.13	Fat, Crude, Randall, Hexane Ext. (%)	0098	1.960	0.1800				1			0
005.00	Ash, 2h @ 600°C (%)	0098	5.805	0.1300	5.803	0.1018	0.0807	56	0.02	0%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0098	12.14	0.1000	12.01	0.3735	0.0553	20	0.36	1%	0
013.02	Fat, Pretreat, Mojonner, Bak Ext, Acid hydrolysis	0098	3.480	0.7400	3.734	1.562	0.4196	14	-0.16	3%	0

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019.41	Calcium, ICP, Dry ash (%)	0098	0.0755	0.0009	0.0792	0.0040	0.0059	7	-0.95	2%	0
019.43	Calcium, ICP, Microwave (%)	0098	0.0847	0.0013	0.0794	0.0042	0.0042	21	1.23	3%	0
022.41	Copper, ICP, Dry ash (ppm)	0098	9.965	0.5100	10.25	1.878	0.4891	6	-0.15	1%	0
022.43	Copper, ICP, Microwave (ppm)	0098	10.18	0.4800	10.21	0.3821	0.3959	19	-0.09	0%	0
025.41	Iron, ICP, Dry ash (ppm)	0098	113.9	1.100	119.5	8.361	7.676	5			0
025.43	Iron, ICP, Microwave (ppm)	0098	123.5	0.7000	118.7	6.688	2.009	10	0.72	2%	0
027.41	Magnesium, ICP, Dry ash (%)	0098	0.4850	0.0100	0.4963	0.0302	0.0080	5			0
027.43	Magnesium, ICP, Microwave (%)	0098	0.5250	0.0100	0.5042	0.0318	0.0105	21	0.65	2%	0
028.41	Manganese, ICP, Dry ash (ppm)	0098	132.8	1.600	136.2	5.528	6.453	6	-0.62	1%	0
028.43	Manganese, ICP, Microwave (ppm)	0098	143.1	0.7000	140.3	5.246	4.746	20	0.52	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	0098	1.266	0.0210	1.312	0.1144	0.0554	6	-0.41	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0098	1.314	0.0130	1.324	0.0719	0.0409	20	-0.15	0%	0
032.41	Potassium, ICP, Dry ash (%)	0098	1.420	0 Range	1.430	0.0747	0.0553	6	-0.14	0%	0
032.43	Potassium, ICP, Microwave (%)	0098	1.450	0.0400	1.419	0.0536	0.0329	20	0.57	1%	0
033.01	Salt as chloride, Poten Cl (%)	0098	0.2400	0.0200	0.1229	0.0492	0.0084	6	2.38	48%	0
035.41	Sodium, ICP, Dry ash (%)	0098	0.0029	0 Range	0.0100	0.0000		33	#####	36%	0
035.43	Sodium, ICP, Microwave (%)	0098	0.0029	0 Range	0.0062	0.0037	0.0006	5			0
036.43	Sulfur, ICP, Microwave (%)	0098	0.1773	0.0016	0.1710	0.0045	0.0056	4			0
037.41	Zinc, ICP, Dry ash (ppm)	0098	73.25	0.5800	74.45	3.545	2.647	8	-0.34	1%	0
037.43	Zinc, ICP, Microwave (ppm)	0098	78.97	1.140	72.84	5.149	3.364	21	1.19	4%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0139	10.18	0.0500	11.57	0.2972	0.0794	55	-4.70	6%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0139	15.69	0.0600	16.02	0.3356	0.1257	85	-0.97	1%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0139	1.640	0.0200	1.639	0.1829	0.0464	19	0.00	0%	0
005.00	Ash, 2h @ 600°C (%)	0139	5.880	0.0600	5.803	0.1018	0.0807	56	0.76	1%	0
019.41	Calcium, ICP, Dry ash (%)	0139	0.0800	0 Range	0.0792	0.0040	0.0059	7	0.19	0%	0
022.44	Copper, ICP, Dry ash (ppm)	0139	5.460	0.6200	7.584	1.655	0.7147	37	-1.28	14%	0
027.44	Magnesium, ICP, Dry ash (%)	0139	0.4880	0.0120	0.4351	0.0832	0.0109	37	0.64	6%	0
028.44	Manganese, ICP, Dry ash (ppm)	0139	136.8	0.7200	137.0	6.097	3.178	37	-0.04	0%	0
031.44	Phosphorus, ICP, Dry ash (%)	0139	1.275	0.0100	1.251	0.0560	0.0321	39	0.42	1%	0
032.44	Potassium, ICP, Dry ash (%)	0139	1.325	0.0100	1.358	0.0541	0.0310	37	-0.62	1%	0
035.41	Sodium, ICP, Dry ash (%)	0139	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	0139	72.92	0.8800	71.56	3.125	1.473	34	0.43	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0142	11.38	0.4200	11.57	0.2972	0.0794	55	-0.65	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0142	16.23	0.2100	16.02	0.3356	0.1257	85	0.62	1%	0
005.00	Ash, 2h @ 600°C (%)	0142	5.670	0 Range	5.803	0.1018	0.0807	56	-1.30	1%	0
027.31	Magnesium, AAS, Dry ash (%)	0142	0.4900	0.0228				3			0
031.01	Phosphorus, Photometric (%)	0142	1.228	0.0427				3			0
032.31	Potassium, AAS, Dry ash (%)	0142	1.078	0.1074				2			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0148	11.62	0.1800	11.57	0.2972	0.0794	55	0.16	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0148	15.93	0.0400	16.02	0.3356	0.1257	85	-0.26	0%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0148	1.820	0.0200	1.639	0.1829	0.0464	19	0.99	6%	0
003.14	Fat, Crude, Ankom (%)	0148	1.970	0.1400	1.738	0.2668	0.1681	15	0.87	7%	0
005.00	Ash, 2h @ 600°C (%)	0148	5.870	0.0400	5.803	0.1018	0.0807	56	0.66	1%	0
008.02	Fiber, Acid Detergent, Crucible (%)	0148	11.34	0.3500	11.30	0.6265	0.0262	4			1

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008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0148	11.02	0.4900	11.55	0.8687	0.2567	10	-0.62	2%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0148	40.80	0.1300	40.76	1.473	0.4335	7	0.02	0%	0
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme)	0148	17.40	0.5900	18.19	0.6051	0.6536	4			0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolysis	0148	4.490	0.1400	3.734	1.562	0.4196	14	0.48	10%	0
014.99	Fiber, Total Dietary, Miscellaneous (%)	0148	43.23	0.1800				1			0
019.41	Calcium, ICP, Dry ash (%)	0148	0.0795	0.0090	0.0792	0.0040	0.0059	7	0.06	0%	0
022.41	Copper, ICP, Dry ash (ppm)	0148	10.61	0.6700	10.25	1.878	0.4891	6	0.19	2%	0
025.41	Iron, ICP, Dry ash (ppm)	0148	121.5	15.01	119.5	8.361	7.676	5			0
027.41	Magnesium, ICP, Dry ash (%)	0148	0.5100	0.0600	0.4963	0.0302	0.0080	5			1
028.41	Manganese, ICP, Dry ash (ppm)	0148	143.2	18.00	136.2	5.528	6.453	6	1.26	3%	0
031.41	Phosphorus, ICP, Dry ash (%)	0148	1.435	0.1500	1.312	0.1144	0.0554	6	1.07	5%	0
032.41	Potassium, ICP, Dry ash (%)	0148	1.470	0.1200	1.430	0.0747	0.0553	6	0.53	1%	0
033.01	Salt as chloride, Poten Cl (%)	0148	0.0822	0.0004	0.1229	0.0492	0.0084	6	-0.83	17%	0
034.42	Selenium, Total (Se), ICP, Open vessel (ppm)	0148	0.0795	0.0076				1			0
035.41	Sodium, ICP, Dry ash (%)	0148	0.0040	0 Range	0.0100	0.0000		33	#####	30%	0
036.04	Sulfur, LECO (%)	0148	0.1560	0.0040				1			0
037.41	Zinc, ICP, Dry ash (ppm)	0148	76.90	6.880	74.45	3.545	2.647	8	0.69	2%	0
120.05	Alanine, Pre-col AQC Der (%)	0148	0.7300	0.0320				2			0
121.05	Arginine, Pre-col AQC Der (%)	0148	0.9510	0.0160				2			0
122.05	Aspartic, Pre-col AQC Der (%)	0148	1.165	0.0900				2			0
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	0148	0.4460	0.0240				2			0
125.05	Glutamic, Pre-col AQC Der (%)	0148	3.495	0.3100				2			0
126.05	Glycine, Pre-col AQC Der (%)	0148	0.7610	0.0100				2			0
127.05	Histidine, Pre-col AQC Der (%)	0148	0.3700	0.0100				2			0
128.05	Isoleucine, Pre-col AQC Der (%)	0148	0.4930	0.0120				2			0
129.05	Leucine, Pre-col AQC Der (%)	0148	0.9365	0.0270				2			0
130.05	L-Lysine, Pre-col AQC Der (%)	0148	0.6440	0.0620				2			0
131.05	Methionine, PAO Pre-col AQC Der (%)	0148	0.2480	0.0260				2			0
132.05	Phenylalanine, Pre-col AQC Der (%)	0148	0.5745	0.0290				2			0
133.05	Proline, Pre-col AQC Der (%)	0148	1.019	0.0420				2			0
134.05	Serine, Pre-col AQC Der (%)	0148	0.6590	0.0100				2			0
135.05	Threonine, Pre-col AQC Der (%)	0148	0.4720	0.0140				2			0
137.05	Tyrosine, Pre-col AQC Der (%)	0148	0.3965	0.0090				2			0
138.05	Valine, Pre-col AQC Der (%)	0148	0.7180	0.0180				2			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0171	16.52	0.0100	16.02	0.3356	0.1257	85	1.49	2%	0
003.12	Fat, Crude, Hexane Ext (%)	0171	1.875	0.0300				1			0
003.14	Fat, Crude, Ankom (%)	0171	1.450	0.1000	1.738	0.2668	0.1681	15	-1.08	8%	0
004.00	Fiber, Crude, Asbestos Free (%)	0171	10.19	0.0900	9.803	1.582	0.0974	7	0.24	2%	0
005.00	Ash, 2h @ 600°C (%)	0171	5.765	0.2300	5.803	0.1018	0.0807	56	-0.37	0%	0
008.02	Fiber, Acid Detergent, Crucible (%)	0171	12.19	0.0500	11.30	0.6265	0.0262	4			0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0171	11.86	0.0300	12.01	0.3735	0.0553	20	-0.41	1%	0
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme)	0171	18.31	0.7300	18.19	0.6051	0.6536	4			0
019.41	Calcium, ICP, Dry ash (%)	0171	0.0800	0 Range	0.0792	0.0040	0.0059	7	0.19	0%	0
022.41	Copper, ICP, Dry ash (ppm)	0171	13.95	0.1000	10.25	1.878	0.4891	6	1.97	18%	0

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			Value	Range	Rob Mean	Robust SD	Rob R-bar	# Labs			
025.41	Iron, ICP, Dry ash (ppm)	0171	116.5	1.000	119.5	8.361	7.676	5			0
027.41	Magnesium, ICP, Dry ash (%)	0171	0.4630	0.0080	0.4963	0.0302	0.0080	5			0
028.41	Manganese, ICP, Dry ash (ppm)	0171	131.0	2.000	136.2	5.528	6.453	6	-0.94	2%	0
031.41	Phosphorus, ICP, Dry ash (%)	0171	1.175	0.0300	1.312	0.1144	0.0554	6	-1.20	5%	0
032.41	Potassium, ICP, Dry ash (%)	0171	1.385	0.0300	1.430	0.0747	0.0553	6	-0.61	2%	0
037.41	Zinc, ICP, Dry ash (ppm)	0171	75.70	1.600	74.45	3.545	2.647	8	0.35	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0208	15.95	0.1000	16.02	0.3356	0.1257	85	-0.20	0%	0
004.00	Fiber, Crude, Asbestos Free (%)	0208	8.775	0.3700	9.803	1.582	0.0974	7	-0.65	5%	0
005.00	Ash, 2h @ 600°C (%)	0208	5.785	0.0700	5.803	0.1018	0.0807	56	-0.17	0%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0208	12.00	0 Range	12.01	0.3735	0.0553	20	-0.02	0%	0
012.04	Starch, Enzymatic-Enzyme Membrane Technology (%)	0208	19.85	0.1000				2			0
013.02	Fat, Pretreat, Mojonier, Bak Ext, Acid hydrolysis (%)	0208	4.145	0.8100	3.734	1.562	0.4196	14	0.26	6%	0
014.01	Fiber, Total Dietary, Enz-Grav (%)	0208	42.15	0.3000				2			0
019.41	Calcium, ICP, Dry ash (%)	0208	0.0745	0.0070	0.0792	0.0040	0.0059	7	-1.19	3%	0
022.41	Copper, ICP, Dry ash (ppm)	0208	10.29	0.4800	10.25	1.878	0.4891	6	0.02	0%	0
025.41	Iron, ICP, Dry ash (ppm)	0208	112.6	10.80	119.5	8.361	7.676	5			0
027.41	Magnesium, ICP, Dry ash (%)	0208	0.5330	0.0040	0.4963	0.0302	0.0080	5			0
028.41	Manganese, ICP, Dry ash (ppm)	0208	134.3	12.70	136.2	5.528	6.453	6	-0.35	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	0208	1.408	0.0600	1.312	0.1144	0.0554	6	0.84	4%	0
032.41	Potassium, ICP, Dry ash (%)	0208	1.529	0.0080	1.430	0.0747	0.0553	6	1.32	3%	0
035.41	Sodium, ICP, Dry ash (%)	0208	0.0050	0 Range	0.0100	0.0000		33	#####	25%	0
037.41	Zinc, ICP, Dry ash (ppm)	0208	68.77	7.400	74.45	3.545	2.647	8	-1.60	4%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0242	15.15	0.2700	16.02	0.3356	0.1257	85	-2.60	3%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0242	1.555	0.0300	1.639	0.1829	0.0464	19	-0.46	3%	0
004.07	Fiber, Crude, ANKOM (%)	0242	11.18	0.2900	9.285	0.8652	0.3634	23	2.18	10%	0
005.00	Ash, 2h @ 600°C (%)	0242	5.775	0.0500	5.803	0.1018	0.0807	56	-0.27	0%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0242	12.26	0.0200	12.01	0.3735	0.0553	20	0.68	1%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	0242	4.180	0.1600	4.278	0.2181	0.1303	12	-0.45	1%	0
019.99	Calcium, Miscellaneous (%)	0242	0.0700	0 Range				1			0
022.99	Copper, Miscellaneous (ppm)	0242	8.000	0 Range				1			0
025.99	Iron, Miscellaneous (ppm)	0242	107.0	4.000				1			0
027.99	Magnesium, Miscellaneous (%)	0242	0.4650	0.0100				1			0
028.99	Manganese, Miscellaneous (ppm)	0242	127.5	1.000				1			0
031.99	Phosphorus, Miscellaneous (%)	0242	1.145	0.0100				1			0
032.99	Potassium, Miscellaneous (%)	0242	1.315	0.0300				1			0
033.01	Salt as chloride, Poten Cl (%)	0242	0.1000	0 Range	0.1229	0.0492	0.0084	6	-0.47	9%	0
035.99	Sodium, Miscellaneous (%)	0242	0.0100	0 Range				1			0
036.99	Sulfur, Miscellaneous (%)	0242	0.1350	0.0100				1			0
037.99	Zinc, Miscellaneous (ppm)	0242	63.50	1.000				1			0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0309	11.72	0.0303				3			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0309	16.45	0.1950	16.02	0.3356	0.1257	85	1.29	1%	0
004.00	Fiber, Crude, Asbestos Free (%)	0309	9.818	0.0970	9.803	1.582	0.0974	7	0.01	0%	0
005.00	Ash, 2h @ 600°C (%)	0309	5.750	0.2498	5.803	0.1018	0.0807	56	-0.52	0%	0
008.02	Fiber, Acid Detergent, Crucible (%)	0309	11.29	0.0126	11.30	0.6265	0.0262	4			0

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009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	0309	44.79	1.078				2			0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0309	11.51	0.2500	12.01	0.3735	0.0553	20	-1.34	2%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	0309	3.957	0.0329	4.278	0.2181	0.1303	12	-1.47	4%	0
033.00	Salt as chloride, Sol Cl (%)	0309	0.0536	0.0195				1			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0407	10.98	1.597	11.57	0.2972	0.0794	55	-2.00	3%	1
002.05	Protein, Crude, Copper, Boric Acid (%)	0407	16.29	0.0310				3			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0407	16.64	0.4690	16.02	0.3356	0.1257	85	1.85	2%	0
003.14	Fat, Crude, Ankom (%)	0407	2.600	0.0297	1.738	0.2668	0.1681	15	3.23	25%	0
004.07	Fiber, Crude, ANKOM (%)	0407	8.664	1.437	9.285	0.8652	0.3634	23	-0.72	3%	0
005.00	Ash, 2h @ 600°C (%)	0407	5.687	0.1111	5.803	0.1018	0.0807	56	-1.13	1%	0
006.00	Total Sugars, As sucrose (%)	0407	5.658	0.0080				2			0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0407	10.69	0.0988	11.55	0.8687	0.2567	10	-1.00	4%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0407	38.18	0.3305	40.76	1.473	0.4335	7	-1.76	3%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0407	10.90	0.0080	12.01	0.3735	0.0553	20	-2.97	5%	0
012.01	Starch, Enzymatic-Colorimetric Method (Megazy)	0407	18.19	0.6125	18.19	0.6051	0.6536	4			0
012.03	Starch, Enzymatic-Colorimetric Method, Miscella	0407	18.51	0.0425				2			0
013.02	Fat, Pretreat, Mojonier, Bak Ext, Acid hydrolysis	0407	5.204	0.0470	3.734	1.562	0.4196	14	0.94	20%	0
013.13	Fat, Pretreat, Ankom- Acid Hydrolysis (%)	0407	4.761	0.2400				3			0
015.41	Aluminum, ICP, Dry ash (ppm)	0407	10.52	1.937				1			0
015.43	Aluminum, ICP, Microwave (ppm)	0407	9.818	1.779				1			0
015.53	Aluminum, ICP-MS, Microwave (ppm)	0407	11.42	3.481				1			0
017.41	Boron, ICP, Dry ash (ppm)	0407	2.107	0.4772				1			0
017.43	Boron, ICP, Microwave (ppm)	0407	2.240	0.2210				2			0
017.53	Boron, ICP-MS, Microwave (ppm)	0407	1.924	0.3700				1			0
019.41	Calcium, ICP, Dry ash (%)	0407	0.1108	0.0066	0.0792	0.0040	0.0059	7	7.89	20%	0
019.43	Calcium, ICP, Microwave (%)	0407	0.0983	0.0042	0.0794	0.0042	0.0042	21	4.46	12%	0
019.53	Calcium, ICP-MS, Microwave (%)	0407	0.0963	0.0137	0.0853	0.0090	0.0099	5			0
021.41	Cobalt, ICP, Dry ash (ppm)	0407	0.5023	0.0131				1			0
021.43	Cobalt, ICP, Microwave (ppm)	0407	0.5569	0.0823				2			0
021.53	Cobalt, ICP-MS, Microwave (ppm)	0407	0.1987	0.0398				1			0
022.41	Copper, ICP, Dry ash (ppm)	0407	10.16	0.8548	10.25	1.878	0.4891	6	-0.05	0%	0
022.43	Copper, ICP, Microwave (ppm)	0407	11.44	0.0130	10.21	0.3821	0.3959	19	3.21	6%	0
022.53	Copper, ICP-MS, Microwave (ppm)	0407	10.59	0.1327	10.34	0.2722	0.3041	5			0
025.41	Iron, ICP, Dry ash (ppm)	0407	133.2	10.47	119.5	8.361	7.676	5			0
025.43	Iron, ICP, Microwave (ppm)	0407	140.5	1.660	118.7	6.688	2.009	10	3.26	9%	0
025.53	Iron, ICP-MS, Microwave (ppm)	0407	135.0	8.845	124.4	12.81	9.003	5			0
027.41	Magnesium, ICP, Dry ash (%)	0407	0.5229	0.0128	0.4963	0.0302	0.0080	5			0
027.43	Magnesium, ICP, Microwave (%)	0407	0.5614	0.0268	0.5042	0.0318	0.0105	21	1.80	6%	0
027.53	Magnesium, ICP-MS, Microwave (%)	0407	0.5260	0.0274	0.5105	0.0287	0.0671	5			0
028.41	Manganese, ICP, Dry ash (ppm)	0407	134.8	0.3293	136.2	5.528	6.453	6	-0.26	1%	0
028.43	Manganese, ICP, Microwave (ppm)	0407	151.7	9.238	140.3	5.246	4.746	20	2.17	4%	0
028.53	Manganese, ICP-MS, Microwave (ppm)	0407	140.0	3.687				3			0
031.41	Phosphorus, ICP, Dry ash (%)	0407	1.345	0.0736	1.312	0.1144	0.0554	6	0.29	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0407	1.419	0.0574	1.324	0.0719	0.0409	20	1.32	4%	0

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031.53	Phosphorus, ICP-MS, Microwave (%)	0407	1.399	0.1874	1.297	0.1022	0.0995	5			0
032.41	Potassium, ICP, Dry ash (%)	0407	1.438	0.0987	1.430	0.0747	0.0553	6	0.10	0%	0
032.43	Potassium, ICP, Microwave (%)	0407	1.494	0.1285	1.419	0.0536	0.0329	20	1.39	3%	0
032.53	Potassium, ICP-MS, Microwave (%)	0407	1.506	0.0860	1.399	0.0696	0.1092	5			0
033.01	Salt as chloride, Poten Cl (%)	0407	0.1535	0.0030	0.1229	0.0492	0.0084	6	0.62	12%	0
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	0407	0.2367	0.0223				2			0
035.41	Sodium, ICP, Dry ash (%)	0407	0.0182	0.0033	0.0100	0.0000		33	>100	41%	0
035.43	Sodium, ICP, Microwave (%)	0407	0.0170	0.0135	0.0062	0.0037	0.0006	5			1
035.53	Sodium, ICP-MS, Microwave (%)	0407	0.0194	0.0016				1			0
036.42	Sulfur, ICP, Open vessel (%)	0407	0.1524	0.0065				2			0
036.43	Sulfur, ICP, Microwave (%)	0407	0.1697	0.0049	0.1710	0.0045	0.0056	4			0
037.41	Zinc, ICP, Dry ash (ppm)	0407	107.9	0.1281	74.45	3.545	2.647	8	9.44	22%	0
037.43	Zinc, ICP, Microwave (ppm)	0407	119.3	4.913	72.84	5.149	3.364	21	9.02	32%	0
037.53	Zinc, ICP-MS, Microwave (ppm)	0407	117.2	4.815				3			2
038.41	Molybdenum, ICP, Dry ash (ppm)	0407	1.102	0.0844				1			0
038.43	Molybdenum, ICP, Microwave (ppm)	0407	1.246	0.0318	1.090	0.5515	0.1139	4			0
038.53	Molybdenum, ICP-MS, Microwave (ppm)	0407	1.104	0.0509	1.002	0.0734	0.0506	5			0
040.53	Barium, ICP-MS, Microwave (ppm)	0407	29.52	1.988				1			0
041.53	Vanadium, ICP-MS, Microwave (ppm)	0407	0.0462	0.0015				1			0
400.01	Water Activity, Aqualab chilled mirror (Units)	0407	0.5654	0.0018				3			0
516.53	Arsenic, Total (As), ICP-MS, Microwave (ppm)	0407	0.0224	0.0093				1			0
518.41	Cadmium, ICP, Dry ash (ppm)	0407	0.0829	0.0030				1			0
518.43	Cadmium, ICP, Microwave (ppm)	0407	0.0910	0.0073				1			0
518.53	Cadmium, ICP-MS, Microwave (ppm)	0407	0.0862	0.0104				1			0
520.41	Chromium, Total (Cr), ICP, Dry ash (ppm)	0407	1.413	0.1356				1			0
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	0407	1.885	0.2273				2			0
520.53	Chromium, Total (Cr), ICP-MS, Microwave (ppm)	0407	1.696	0.1288				2			0
526.41	Lead, ICP, Dry ash (ppm)	0407	0.1686	0.0566				1			0
526.43	Lead, ICP, Microwave (ppm)	0407	0.2208	0.0190				1			0
526.53	Lead, ICP-MS, Microwave (ppm)	0407	0.0081	0.0135				1			0
529.99	Mercury, Miscellaneous (ppb)	0407	0.5863	0.1191				1			0
539.41	Nickel, ICP, Dry ash (ppm)	0407	1.433	0.0396				1			0
539.43	Nickel, ICP, Microwave (ppm)	0407	1.671	0.0283				1			0
539.53	Nickel, ICP-MS, Microwave (ppm)	0407	1.620	0.1062				2			0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0504	11.52	0.1300				3			0
002.04	Protein, Crude, Copper Catalyst (%)	0504	15.83	0.0100				2			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0504	15.97	0.1100	16.02	0.3356	0.1257	85	-0.15	0%	0
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirect	0504	1.895	0.2700				1			0
004.07	Fiber, Crude, ANKOM (%)	0504	8.965	0.3700	9.285	0.8652	0.3634	23	-0.37	2%	0
005.00	Ash, 2h @ 600°C (%)	0504	5.720	0.1600	5.803	0.1018	0.0807	56	-0.81	1%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0504	41.17	0.4000	11.55	0.8687	0.2567	10	34.09	128%	2
019.42	Calcium, ICP, Open vessel (%)	0504	0.0795	0.0030				3			0
019.53	Calcium, ICP-MS, Microwave (%)	0504	0.0750	0.0020	0.0853	0.0090	0.0099	5			0
021.53	Cobalt, ICP-MS, Microwave (ppm)	0504	< 0.01					1			5

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022.42	Copper, ICP, Open vessel (ppm)	0504	< 15					2			5
022.53	Copper, ICP-MS, Microwave (ppm)	0504	10.10	0.2000	10.34	0.2722	0.3041	5			0
025.42	Iron, ICP, Open vessel (ppm)	0504	112.5	1.000	113.9	7.567	2.046	4			0
025.53	Iron, ICP-MS, Microwave (ppm)	0504	115.5	3.000	124.4	12.81	9.003	5			0
027.42	Magnesium, ICP, Open vessel (%)	0504	0.4920	0.0040				3			0
027.53	Magnesium, ICP-MS, Microwave (%)	0504	0.4845	0.0150	0.5105	0.0287	0.0671	5			0
028.42	Manganese, ICP, Open vessel (ppm)	0504	134.0	2.000				3			0
028.53	Manganese, ICP-MS, Microwave (ppm)	0504	136.0	4.000				3			0
031.42	Phosphorus, ICP, Open vessel (%)	0504	1.290	0 Range	1.276	0.1047	0.0067	4			0
031.53	Phosphorus, ICP-MS, Microwave (%)	0504	1.190	0.0200	1.297	0.1022	0.0995	5			0
032.42	Potassium, ICP, Open vessel (%)	0504	1.465	0.0300	1.420	0.1118	0.0250	4			0
032.53	Potassium, ICP-MS, Microwave (%)	0504	1.335	0.0100	1.399	0.0696	0.1092	5			0
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	0504	< 0.5					2			5
035.42	Sodium, ICP, Open vessel (%)	0504	< 0.015					2			5
037.42	Zinc, ICP, Open vessel (ppm)	0504	85.00	2.000				3			0
037.53	Zinc, ICP-MS, Microwave (ppm)	0504	71.35	1.500				3			0
038.53	Molybdenum, ICP-MS, Microwave (ppm)	0504	1.050	0.1000	1.002	0.0734	0.0506	5			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0504	0.7050	0.0100				2			0
121.00	Arginine, Post-col Ninhydrin Der (%)	0504	1.055	0.0300				2			0
122.00	Aspartic, Post-col Ninhydrin Der (%)	0504	1.065	0.0100				2			0
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	0504	0.3550	0.0100				2			0
125.00	Glutamic, Post-col Ninhydrin Der (%)	0504	3.185	0.0900				2			0
126.00	Glycine, Post-col Ninhydrin Der (%)	0504	0.8200	0 Range				2			0
127.00	Histidine, Post-col Ninhydrin Der (%)	0504	0.4550	0.0100				2			0
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0504	0.5100	0 Range				2			0
129.00	Leucine, Post-col Ninhydrin Der (%)	0504	0.9500	0.0200				2			0
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0504	0.6250	0.0100				2			0
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0504	0.2200	0 Range				2			0
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0504	0.6400	0.0200				2			0
133.00	Proline, Post-col Ninhydrin Der (%)	0504	1.015	0.0500				2			0
134.00	Serine, Post-col Ninhydrin Der (%)	0504	0.5950	0.0100				2			0
135.00	Threonine, Post-col Ninhydrin Der (%)	0504	0.4850	0.0100				2			0
136.99	Tryptophan, Miscellaneous (%)	0504	0.2050	0.0100				2			0
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0504	0.4100	0.0200				2			0
138.00	Valine, Post-col Ninhydrin Der (%)	0504	0.7300	0.0200				2			0
139.00	Taurine, Post-col Ninhydrin Der (%)	0504	0.1900	0 Range				1			0
516.53	Arsenic, Total (As), ICP-MS, Microwave (ppm)	0504	< 0.1					1			5
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0508	16.56	0.1390	16.02	0.3356	0.1257	85	1.61	2%	0
001.99	Loss on Drying, Miscellaneous (%)	0510	10.95	0.1000	10.46	1.494	0.4300	5			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0510	16.10	0 Range	16.02	0.3356	0.1257	85	0.25	0%	0
003.14	Fat, Crude, Ankom (%)	0510	2.215	0.0300	1.738	0.2668	0.1681	15	1.79	14%	0
004.07	Fiber, Crude, ANKOM (%)	0510	10.15	0.1000	9.285	0.8652	0.3634	23	1.00	5%	0
005.00	Ash, 2h @ 600°C (%)	0510	5.360	0.2600	5.803	0.1018	0.0807	56	-4.35	4%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0510	11.80	0 Range	12.01	0.3735	0.0553	20	-0.55	1%	0

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012.04	Starch, Enzymatic-Enzyme Membrane Technolo	0510	16.90	0.2000				2			0
015.43	Aluminum, ICP, Microwave (ppm)	0510	< 1					1			5
017.43	Boron, ICP, Microwave (ppm)	0510	2.000	0 Range				2			0
019.43	Calcium, ICP, Microwave (%)	0510	0.0800	0 Range	0.0794	0.0042	0.0042	21	0.13	0%	0
021.43	Cobalt, ICP, Microwave (ppm)	0510	0.0200	0.0200				2			0
022.43	Copper, ICP, Microwave (ppm)	0510	10.00	0 Range	10.21	0.3821	0.3959	19	-0.56	1%	0
025.43	Iron, ICP, Microwave (ppm)	0510	114.0	0 Range	118.7	6.688	2.009	10	-0.70	2%	0
027.43	Magnesium, ICP, Microwave (%)	0510	0.5100	0 Range	0.5042	0.0318	0.0105	21	0.18	1%	0
028.43	Manganese, ICP, Microwave (ppm)	0510	138.5	1.000	140.3	5.246	4.746	20	-0.35	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0510	1.425	0.0100	1.324	0.0719	0.0409	20	1.40	4%	0
032.43	Potassium, ICP, Microwave (%)	0510	1.425	0.0100	1.419	0.0536	0.0329	20	0.10	0%	0
033.01	Salt as chloride, Poten Cl (%)	0510	0.1000	0 Range	0.1229	0.0492	0.0084	6	-0.47	9%	0
035.43	Sodium, ICP, Microwave (%)	0510	0.0100	0 Range	0.0062	0.0037	0.0006	5			0
036.43	Sulfur, ICP, Microwave (%)	0510	0.1700	0 Range	0.1710	0.0045	0.0056	4			0
037.43	Zinc, ICP, Microwave (ppm)	0510	72.00	0 Range	72.84	5.149	3.364	21	-0.16	1%	0
038.43	Molybdenum, ICP, Microwave (ppm)	0510	1.000	0 Range	1.090	0.5515	0.1139	4			0
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	0510	0.0950	0.0100				2			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0511	14.46	0.4100	16.02	0.3356	0.1257	85	-4.65	5%	0
003.14	Fat, Crude, Ankom (%)	0511	1.410	0.0800	1.738	0.2668	0.1681	15	-1.23	9%	0
004.07	Fiber, Crude, ANKOM (%)	0511	9.100	1.000	9.285	0.8652	0.3634	23	-0.21	1%	0
005.03	Ash, Microwave furnace (%)	0511	6.100	0 Range	5.940	0.0532	0.0300	9	3.01	1%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0511	10.70	0 Range	11.55	0.8687	0.2567	10	-0.98	4%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0511	11.78	0.3000	12.01	0.3735	0.0553	20	-0.61	1%	0
019.43	Calcium, ICP, Microwave (%)	0511	0.0800	0 Range	0.0794	0.0042	0.0042	21	0.13	0%	0
022.43	Copper, ICP, Microwave (ppm)	0511	9.000	0 Range	10.21	0.3821	0.3959	19	-3.18	6%	0
025.43	Iron, ICP, Microwave (ppm)	0511	120.5	17.00	118.7	6.688	2.009	10	0.28	1%	1
027.43	Magnesium, ICP, Microwave (%)	0511	0.4650	0.0100	0.5042	0.0318	0.0105	21	-1.23	4%	0
028.43	Manganese, ICP, Microwave (ppm)	0511	127.5	1.000	140.3	5.246	4.746	20	-2.45	5%	0
031.43	Phosphorus, ICP, Microwave (%)	0511	1.275	0.0900	1.324	0.0719	0.0409	20	-0.68	2%	0
032.43	Potassium, ICP, Microwave (%)	0511	1.390	0.0200	1.419	0.0536	0.0329	20	-0.55	1%	0
037.43	Zinc, ICP, Microwave (ppm)	0511	66.50	1.000	72.84	5.149	3.364	21	-1.23	4%	0
002.11	Protein, Crude, NIR (%)	0553	15.35	0.1000				2			0
003.11	Fat, Crude, NIR (%)	0553	2.980	0.0800				2			0
004.07	Fiber, Crude, ANKOM (%)	0553	8.325	0.7300	9.285	0.8652	0.3634	23	-1.11	5%	0
004.11	Fiber, Crude, NIR (%)	0553	8.480	0.0400				2			0
005.00	Ash, 2h @ 600°C (%)	0553	5.830	0.1000	5.803	0.1018	0.0807	56	0.27	0%	0
010.11	Moisture, NIR (%)	0553	12.15	0.3100				2			0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0553	12.08	0.0100	12.01	0.3735	0.0553	20	0.18	0%	0
013.02	Fat, Pretreat, Mojonniier, Bak Ext, Acid hydrolysis	0553	5.140	0.2200	3.734	1.562	0.4196	14	0.90	19%	0
019.53	Calcium, ICP-MS, Microwave (%)	0553	0.0783	0.0014	0.0853	0.0090	0.0099	5			0
022.53	Copper, ICP-MS, Microwave (ppm)	0553	10.17	0.4600	10.34	0.2722	0.3041	5			0
025.53	Iron, ICP-MS, Microwave (ppm)	0553	108.0	0 Range	124.4	12.81	9.003	5			0
027.53	Magnesium, ICP-MS, Microwave (%)	0553	0.4935	0.0350	0.5105	0.0287	0.0671	5			0
031.53	Phosphorus, ICP-MS, Microwave (%)	0553	1.295	0.0100	1.297	0.1022	0.0995	5			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
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032.53	Potassium, ICP-MS, Microwave (%)	0553	1.415	0.0700	1.399	0.0696	0.1092	5			0
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	0553	0.0787	0.0078				2			0
037.53	Zinc, ICP-MS, Microwave (ppm)	0553	71.45	4.300				3			0
038.53	Molybdenum, ICP-MS, Microwave (ppm)	0553	0.9220	0.0320	1.002	0.0734	0.0506	5			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0554	15.94	0.0100	16.02	0.3356	0.1257	85	-0.24	0%	0
003.14	Fat, Crude, Ankom (%)	0554	1.465	0.4300	1.738	0.2668	0.1681	15	-1.02	8%	0
004.07	Fiber, Crude, ANKOM (%)	0554	9.545	0.5900	9.285	0.8652	0.3634	23	0.30	1%	0
005.00	Ash, 2h @ 600°C (%)	0554	5.705	0.2900	5.803	0.1018	0.0807	56	-0.96	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0554	12.17	0.1500	12.01	0.3735	0.0553	20	0.42	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0581	11.82	0.0500	11.57	0.2972	0.0794	55	0.81	1%	0
003.14	Fat, Crude, Ankom (%)	0581	1.670	0.0600	1.738	0.2668	0.1681	15	-0.25	2%	0
004.07	Fiber, Crude, ANKOM (%)	0581	9.320	0.0600	9.285	0.8652	0.3634	23	0.04	0%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0581	12.22	0.3500	11.55	0.8687	0.2567	10	0.76	3%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0581	41.47	0.4400	40.76	1.473	0.4335	7	0.48	1%	0
013.13	Fat, Pretreat, Ankom- Acid Hydrolysis (%)	0581	4.380	0.1600				3			0
106.03		0581	2.070	0.0200				1			0
109.03		0581	4.970	0.2600				1			0
001.99	Loss on Drying, Miscellaneous (%)	0656	9.050	0 Range	10.46	1.494	0.4300	5			0
002.01	Protein, Crude, Auto Kjel-Foss (%)	0656	16.74	0 Range	15.91	0.5463	0.0850	5			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0656	16.85	0 Range	16.02	0.3356	0.1257	85	2.48	3%	0
003.06	Fat, Crude, Pet Ether (%)	0656	10.84	0 Range				3			0
003.99	Fat, Crude, Miscellaneous (%)	0656	2.930	0 Range				3			0
005.00	Ash, 2h @ 600°C (%)	0656	6.000	0 Range	5.803	0.1018	0.0807	56	1.94	2%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0656	11.34	0 Range	11.55	0.8687	0.2567	10	-0.24	1%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0656	41.03	0 Range	40.76	1.473	0.4335	7	0.18	0%	0
012.03	Starch, Enzymatic-Colorimetric Method, Miscella	0656	15.76	0 Range				2			0
019.31	Calcium, AAS, Dry ash (%)	0656	0.0700	0 Range				2			0
025.31	Iron, AAS, Dry ash (ppm)	0656	113.2	0 Range				2			0
027.31	Magnesium, AAS, Dry ash (%)	0656	0.0200	0 Range				3			0
028.31	Manganese, AAS, Dry ash (ppm)	0656	146.9	0 Range				2			0
031.01	Phosphorus, Photometric (%)	0656	1.420	0 Range				3			0
032.31	Potassium, AAS, Dry ash (%)	0656	0.0600	0 Range				2			0
037.31	Zinc, AAS, Dry ash (ppm)	0656	78.38	0 Range				2			0
002.01	Protein, Crude, Auto Kjel-Foss (%)	0870	15.97	0.1250	15.91	0.5463	0.0850	5			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0870	15.85	0.3062	16.02	0.3356	0.1257	85	-0.50	1%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0870	1.763	0.0845	1.639	0.1829	0.0464	19	0.68	4%	0
004.07	Fiber, Crude, ANKOM (%)	0870	9.604	0.0293	9.285	0.8652	0.3634	23	0.37	2%	0
005.00	Ash, 2h @ 600°C (%)	0870	5.875	0.0410	5.803	0.1018	0.0807	56	0.71	1%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0870	13.04	0.4658	11.55	0.8687	0.2567	10	1.71	6%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0870	42.56	0.5528	40.76	1.473	0.4335	7	1.22	2%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0870	12.28	0.0334	12.01	0.3735	0.0553	20	0.74	1%	0
012.01	Starch, Enzymatic-Colorimetric Method (Megazy	0870	18.86	0.6818	18.19	0.6051	0.6536	4			0
013.02	Fat, Pretreat, Mojonier, Bak Ext, Acid hydrolysis	0870	4.694	0.0274	3.734	1.562	0.4196	14	0.61	13%	0
014.01	Fiber, Total Dietary, Enz-Grav (%)	0870	47.70	1.400				2			0

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019.42	Calcium, ICP, Open vessel (%)	0870	0.0780	0.0002				3			0
019.43	Calcium, ICP, Microwave (%)	0870	0.0803	0.0022	0.0794	0.0042	0.0042	21	0.20	1%	0
022.42	Copper, ICP, Open vessel (ppm)	0870	9.923	0.4350				2			0
022.43	Copper, ICP, Microwave (ppm)	0870	10.16	0.1300	10.21	0.3821	0.3959	19	-0.15	0%	0
025.42	Iron, ICP, Open vessel (ppm)	0870	109.5	3.100	113.9	7.567	2.046	4			0
025.43	Iron, ICP, Microwave (ppm)	0870	113.8	1.200	118.7	6.688	2.009	10	-0.73	2%	0
027.42	Magnesium, ICP, Open vessel (%)	0870	0.5087	0 Range				3			0
027.43	Magnesium, ICP, Microwave (%)	0870	0.5125	0.0021	0.5042	0.0318	0.0105	21	0.26	1%	0
028.42	Manganese, ICP, Open vessel (ppm)	0870	128.7	2.400				3			0
028.43	Manganese, ICP, Microwave (ppm)	0870	133.6	0.6000	140.3	5.246	4.746	20	-1.29	2%	0
031.42	Phosphorus, ICP, Open vessel (%)	0870	1.256	0.0040	1.276	0.1047	0.0067	4			0
031.43	Phosphorus, ICP, Microwave (%)	0870	1.262	0.0510	1.324	0.0719	0.0409	20	-0.87	2%	0
032.42	Potassium, ICP, Open vessel (%)	0870	1.434	0.0010	1.420	0.1118	0.0250	4			0
032.43	Potassium, ICP, Microwave (%)	0870	1.428	0.0140	1.419	0.0536	0.0329	20	0.16	0%	0
035.42	Sodium, ICP, Open vessel (%)	0870	0.0040	0.0002				2			0
035.43	Sodium, ICP, Microwave (%)	0870	0.0040	0 Range	0.0062	0.0037	0.0006	5			0
036.42	Sulfur, ICP, Open vessel (%)	0870	0.1572	0.0016				2			0
036.43	Sulfur, ICP, Microwave (%)	0870	0.1669	0.0102	0.1710	0.0045	0.0056	4			0
037.42	Zinc, ICP, Open vessel (ppm)	0870	64.31	2.180				3			0
037.43	Zinc, ICP, Microwave (ppm)	0870	68.07	3.550	72.84	5.149	3.364	21	-0.93	3%	0
120.05	Alanine, Pre-col AQC Der (%)	0870	0.7270	0.0380				2			0
121.05	Arginine, Pre-col AQC Der (%)	0870	1.061	0.0310				2			0
122.05	Aspartic, Pre-col AQC Der (%)	0870	1.086	0.0050				2			0
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	0870	0.2670	0.0060				2			0
125.05	Glutamic, Pre-col AQC Der (%)	0870	3.265	0.1420				2			0
126.05	Glycine, Pre-col AQC Der (%)	0870	0.8200	0.0240				2			0
127.05	Histidine, Pre-col AQC Der (%)	0870	0.4610	0.0320				2			0
128.05	Isoleucine, Pre-col AQC Der (%)	0870	0.4590	0.0140				2			0
129.05	Leucine, Pre-col AQC Der (%)	0870	0.9495	0.0350				2			0
130.05	L-Lysine, Pre-col AQC Der (%)	0870	0.6380	0.0060				2			0
131.05	Methionine, PAO Pre-col AQC Der (%)	0870	0.2150	0.0080				2			0
132.05	Phenylalanine, Pre-col AQC Der (%)	0870	0.5950	0.0100				2			0
133.05	Proline, Pre-col AQC Der (%)	0870	0.9970	0.0220				2			0
134.05	Serine, Pre-col AQC Der (%)	0870	0.6815	0.0430				2			0
135.05	Threonine, Pre-col AQC Der (%)	0870	0.4960	0.0200				2			0
136.05	Tryptophan, Pre-col AQC Der (%)	0870	0.2675	0.0110				1			0
137.05	Tyrosine, Pre-col AQC Der (%)	0870	0.3775	0.0210				2			0
138.05	Valine, Pre-col AQC Der (%)	0870	0.6905	0.0250				2			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0876	11.85	0.1000	11.57	0.2972	0.0794	55	0.93	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0876	15.90	0 Range	16.02	0.3356	0.1257	85	-0.35	0%	0
003.14	Fat, Crude, Ankom (%)	0876	1.700	0.2000	1.738	0.2668	0.1681	15	-0.14	1%	0
004.07	Fiber, Crude, ANKOM (%)	0876	8.200	0.6000	9.285	0.8652	0.3634	23	-1.25	6%	0
005.00	Ash, 2h @ 600°C (%)	0876	5.800	0 Range	5.803	0.1018	0.0807	56	-0.03	0%	0
019.43	Calcium, ICP, Microwave (%)	0876	0.0775	0.0030	0.0794	0.0042	0.0042	21	-0.46	1%	0

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022.43	Copper, ICP, Microwave (ppm)	0876	12.03	3.050	10.21	0.3821	0.3959	19	4.74	9%	1
025.43	Iron, ICP, Microwave (ppm)	0876	111.5	0 Range	118.7	6.688	2.009	10	-1.07	3%	0
027.43	Magnesium, ICP, Microwave (%)	0876	0.4960	0.0020	0.5042	0.0318	0.0105	21	-0.26	1%	0
028.43	Manganese, ICP, Microwave (ppm)	0876	135.5	3.000	140.3	5.246	4.746	20	-0.92	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0876	1.278	0.0020	1.324	0.0719	0.0409	20	-0.64	2%	0
032.43	Potassium, ICP, Microwave (%)	0876	1.408	0.0200	1.419	0.0536	0.0329	20	-0.21	0%	0
037.43	Zinc, ICP, Microwave (ppm)	0876	73.20	4.300	72.84	5.149	3.364	21	0.07	0%	0
001.99	Loss on Drying, Miscellaneous (%)	0910	12.05	0.5000	10.46	1.494	0.4300	5			0
002.01	Protein, Crude, Auto Kjel-Foss (%)	0910	15.80	0 Range	15.91	0.5463	0.0850	5			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0910	16.10	0 Range	16.02	0.3356	0.1257	85	0.25	0%	0
003.06	Fat, Crude, Pet Ether (%)	0910	3.495	2.370				3			0
004.07	Fiber, Crude, ANKOM (%)	0910	9.450	2.700	9.285	0.8652	0.3634	23	0.19	1%	1
006.00	Total Sugars, As sucrose (%)	0910	3.970	0.1200				2			0
008.99	Fiber, Acid Detergent, Miscellaneous (%)	0910	11.96	0.5800				1			0
009.99	Fiber, Neutral Detergent, Miscellaneous (%)	0910	39.05	3.500				1			0
012.00	Starch, Polarimetric (Ewers) (%)	0910	19.35	0.3000				1			0
013.00	Fat, Pretreat, Acid hydrolysis (%)	0910	3.470	2.380	4.278	0.2181	0.1303	12	-3.70	9%	1
035.41	Sodium, ICP, Dry ash (%)	0910	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
120.00	Alanine, Post-col Ninhydrin Der (%)	0910	0.7000	0.0600				2			0
121.00	Arginine, Post-col Ninhydrin Der (%)	0910	1.080	0.0800				2			0
122.00	Aspartic, Post-col Ninhydrin Der (%)	0910	1.085	0.0700				2			0
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin (%)	0910	0.3150	0.0300				2			0
125.00	Glutamic, Post-col Ninhydrin Der (%)	0910	3.200	0.1800				2			0
126.00	Glycine, Post-col Ninhydrin Der (%)	0910	0.8250	0.0700				2			0
127.00	Histidine, Post-col Ninhydrin Der (%)	0910	0.4200	0.0400				2			0
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0910	0.5150	0.0500				2			0
129.00	Leucine, Post-col Ninhydrin Der (%)	0910	0.9550	0.0300				2			0
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0910	0.5800	0.0400				2			0
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0910	0.2250	0.0300				2			0
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0910	0.6250	0.0100				2			0
133.00	Proline, Post-col Ninhydrin Der (%)	0910	1.110	0.1200				2			0
134.00	Serine, Post-col Ninhydrin Der (%)	0910	0.6700	0 Range				2			0
135.00	Threonine, Post-col Ninhydrin Der (%)	0910	0.4900	0.0200				2			0
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0910	0.3500	0.0800				2			0
138.00	Valine, Post-col Ninhydrin Der (%)	0910	0.7350	0.0500				2			0
400.99	Water Activity, Miscellaneous (Units)	0910	0.5665	0.0050				2			0
001.99	Loss on Drying, Miscellaneous (%)	0914	8.720	0.5200	10.46	1.494	0.4300	5			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0914	14.59	0.0100	16.02	0.3356	0.1257	85	-4.26	4%	0
004.07	Fiber, Crude, ANKOM (%)	0914	7.750	0.1000	9.285	0.8652	0.3634	23	-1.77	8%	0
005.99	Ash, Miscellaneous (%)	0914	5.680	0.2800				3			0
013.02	Fat, Pretreat, Mojonier, Bak Ext, Acid hydrolysis	0914	4.215	0.0100	3.734	1.562	0.4196	14	0.31	6%	0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	0964	1.648	0.0020	1.489	0.2251	0.0392	10	0.71	5%	0
004.06	Fiber, Crude, Fibertec (%)	0964	9.210	0.1400				1			0
005.00	Ash, 2h @ 600°C (%)	0964	5.735	0.0450	5.803	0.1018	0.0807	56	-0.67	1%	0

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008.02	Fiber, Acid Detergent, Crucible (%)	0964	10.83	0.0040	11.30	0.6265	0.0262	4			0
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	0964	41.94	0.0780				2			0
010.99	Moisture, Miscellaneous (%)	0964	11.86	0.0410	11.80	0.5411	0.0548	5			0
019.43	Calcium, ICP, Microwave (%)	0964	0.0810	0.0029	0.0794	0.0042	0.0042	21	0.36	1%	0
027.43	Magnesium, ICP, Microwave (%)	0964	0.4756	0.0264	0.5042	0.0318	0.0105	21	-0.90	3%	0
028.43	Manganese, ICP, Microwave (ppm)	0964	145.5	13.00	140.3	5.246	4.746	20	0.98	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0964	1.209	0.0108	1.324	0.0719	0.0409	20	-1.61	4%	0
032.43	Potassium, ICP, Microwave (%)	0964	1.548	0.1210	1.419	0.0536	0.0329	20	2.39	5%	0
037.43	Zinc, ICP, Microwave (ppm)	0964	68.35	6.100	72.84	5.149	3.364	21	-0.87	3%	0
038.43	Molybdenum, ICP, Microwave (ppm)	0964	1.720	0.1600	1.090	0.5515	0.1139	4			0
526.43	Lead, ICP, Microwave (ppm)	0964	< 0.27					1			5
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	1020	10.22	0.0400	11.57	0.2972	0.0794	55	-4.55	6%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	1020	17.26	3.040	16.02	0.3356	0.1257	85	3.71	4%	1
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	1020	1.615	0.0100	1.548	0.1532	0.0819	18	0.43	2%	0
005.00	Ash, 2h @ 600°C (%)	1020	5.785	0.0500	5.803	0.1018	0.0807	56	-0.17	0%	0
019.41	Calcium, ICP, Dry ash (%)	1020	0.0800	0 Range	0.0792	0.0040	0.0059	7	0.19	0%	0
022.41	Copper, ICP, Dry ash (ppm)	1020	4.750	0.3200	10.25	1.878	0.4891	6	-2.93	27%	0
027.41	Magnesium, ICP, Dry ash (%)	1020	0.4775	0.0050	0.4963	0.0302	0.0080	5			0
031.41	Phosphorus, ICP, Dry ash (%)	1020	1.245	0.0300	1.312	0.1144	0.0554	6	-0.59	3%	0
032.41	Potassium, ICP, Dry ash (%)	1020	1.340	0.0200	1.430	0.0747	0.0553	6	-1.21	3%	0
035.41	Sodium, ICP, Dry ash (%)	1020	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.41	Zinc, ICP, Dry ash (ppm)	1020	72.61	1.600	74.45	3.545	2.647	8	-0.52	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	1021	10.28	0.1000	11.57	0.2972	0.0794	55	-4.35	6%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	1021	15.85	0.0200	16.02	0.3356	0.1257	85	-0.49	1%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	1021	1.650	0.0200	1.548	0.1532	0.0819	18	0.66	3%	0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	1021	1.650	0.0200	1.489	0.2251	0.0392	10	0.71	5%	0
005.05	Ash, 3h @ 550°C (%)	1021	5.880	0.1400	5.879	0.1219	0.1191	13	0.01	0%	0
019.44	Calcium, ICP, Dry ash (%)	1021	0.0800	0 Range	0.0769	0.0122	0.0100	38	0.25	2%	0
022.44	Copper, ICP, Dry ash (ppm)	1021	6.040	0.5400	7.584	1.655	0.7147	37	-0.93	10%	0
027.44	Magnesium, ICP, Dry ash (%)	1021	0.0510	0.0020	0.4351	0.0832	0.0109	37	-4.62	44%	0
028.44	Manganese, ICP, Dry ash (ppm)	1021	137.5	2.250	137.0	6.097	3.178	37	0.09	0%	0
031.44	Phosphorus, ICP, Dry ash (%)	1021	1.270	0.0400	1.251	0.0560	0.0321	39	0.34	1%	0
032.44	Potassium, ICP, Dry ash (%)	1021	1.405	0.0300	1.358	0.0541	0.0310	37	0.86	2%	0
035.41	Sodium, ICP, Dry ash (%)	1021	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	1021	75.73	1.060	71.56	3.125	1.473	34	1.33	3%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	1022	10.13	0.0700	11.57	0.2972	0.0794	55	-4.87	6%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	1022	15.70	0.0100	16.02	0.3356	0.1257	85	-0.96	1%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	1022	1.630	0.1000	1.548	0.1532	0.0819	18	0.53	3%	0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	1022	1.630	0.1000	1.489	0.2251	0.0392	10	0.63	5%	0
005.00	Ash, 2h @ 600°C (%)	1022	5.930	0 Range	5.803	0.1018	0.0807	56	1.25	1%	0
019.44	Calcium, ICP, Dry ash (%)	1022	0.0900	0.0200	0.0769	0.0122	0.0100	38	1.07	9%	0
022.44	Copper, ICP, Dry ash (ppm)	1022	8.660	1.180	7.584	1.655	0.7147	37	0.65	7%	0
027.44	Magnesium, ICP, Dry ash (%)	1022	0.0580	0.0020	0.4351	0.0832	0.0109	37	-4.53	43%	0
028.44	Manganese, ICP, Dry ash (ppm)	1022	139.3	0.4200	137.0	6.097	3.178	37	0.37	1%	0

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031.44	Phosphorus, ICP, Dry ash (%)	1022	1.325	0.0300	1.251	0.0560	0.0321	39	1.32	3%	0
032.44	Potassium, ICP, Dry ash (%)	1022	1.450	0.0600	1.358	0.0541	0.0310	37	1.69	3%	0
035.41	Sodium, ICP, Dry ash (%)	1022	0.0150	0.0100	0.0100	0.0000		33	>100	25%	1
037.44	Zinc, ICP, Dry ash (ppm)	1022	96.74	36.84	71.56	3.125	1.473	34	8.06	18%	1
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	1023	10.11	0.0100	11.57	0.2972	0.0794	55	-4.94	6%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	1023	15.77	0.0200	16.02	0.3356	0.1257	85	-0.73	1%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	1023	1.775	0.0100	1.548	0.1532	0.0819	18	1.48	7%	0
005.00	Ash, 2h @ 600°C (%)	1023	5.825	0.1500	5.803	0.1018	0.0807	56	0.22	0%	0
019.44	Calcium, ICP, Dry ash (%)	1023	0.0800	0 Range	0.0769	0.0122	0.0100	38	0.25	2%	0
022.44	Copper, ICP, Dry ash (ppm)	1023	6.895	1.730	7.584	1.655	0.7147	37	-0.42	5%	0
027.44	Magnesium, ICP, Dry ash (%)	1023	0.4490	0 Range	0.4351	0.0832	0.0109	37	0.17	2%	0
028.44	Manganese, ICP, Dry ash (ppm)	1023	132.3	2.570	137.0	6.097	3.178	37	-0.76	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	1023	1.225	0.0700	1.251	0.0560	0.0321	39	-0.47	1%	0
032.44	Potassium, ICP, Dry ash (%)	1023	1.350	0.0600	1.358	0.0541	0.0310	37	-0.15	0%	0
035.41	Sodium, ICP, Dry ash (%)	1023	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	1023	72.84	2.150	71.56	3.125	1.473	34	0.41	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	1024	10.15	0 Range	11.57	0.2972	0.0794	55	-4.79	6%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	1024	15.89	0.1100	16.02	0.3356	0.1257	85	-0.39	0%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	1024	1.600	0.0400	1.548	0.1532	0.0819	18	0.34	2%	0
005.00	Ash, 2h @ 600°C (%)	1024	5.900	0.1600	5.803	0.1018	0.0807	56	0.96	1%	0
019.44	Calcium, ICP, Dry ash (%)	1024	0.0800	0 Range	0.0769	0.0122	0.0100	38	0.25	2%	0
022.44	Copper, ICP, Dry ash (ppm)	1024	6.070	0.8400	7.584	1.655	0.7147	37	-0.91	10%	0
027.44	Magnesium, ICP, Dry ash (%)	1024	0.4965	0.0290	0.4351	0.0832	0.0109	37	0.74	7%	0
028.44	Manganese, ICP, Dry ash (ppm)	1024	135.0	0.2400	137.0	6.097	3.178	37	-0.32	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	1024	1.250	0.0400	1.251	0.0560	0.0321	39	-0.02	0%	0
032.44	Potassium, ICP, Dry ash (%)	1024	1.345	0.0100	1.358	0.0541	0.0310	37	-0.25	0%	0
035.41	Sodium, ICP, Dry ash (%)	1024	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	1024	72.90	0.6400	71.56	3.125	1.473	34	0.43	1%	0
002.99	Protein, Crude, Miscellaneous (%)	2023	15.76	0.2100				1			0
003.99	Fat, Crude, Miscellaneous (%)	2023	5.145	0.1500				3			0
004.00	Fiber, Crude, Asbestos Free (%)	2023	7.545	0.0900	9.803	1.582	0.0974	7	-1.43	12%	0
005.99	Ash, Miscellaneous (%)	2023	5.705	0.0100				3			0
011.02	Loss on Drying, HT, 130°C for 2 hours (%)	2023	11.36	0.0300				1			0
019.43	Calcium, ICP, Microwave (%)	2023	0.0760	0 Range	0.0794	0.0042	0.0042	21	-0.82	2%	0
022.53	Copper, ICP-MS, Microwave (ppm)	2023	10.15	0.1000	10.34	0.2722	0.3041	5			0
025.43	Iron, ICP, Microwave (ppm)	2023	118.0	4.000	118.7	6.688	2.009	10	-0.10	0%	0
027.43	Magnesium, ICP, Microwave (%)	2023	0.4180	0.0200	0.5042	0.0318	0.0105	21	-2.71	9%	0
028.43	Manganese, ICP, Microwave (ppm)	2023	140.5	1.000	140.3	5.246	4.746	20	0.03	0%	0
031.43	Phosphorus, ICP, Microwave (%)	2023	1.310	0.0200	1.324	0.0719	0.0409	20	-0.20	1%	0
032.43	Potassium, ICP, Microwave (%)	2023	1.355	0.0100	1.419	0.0536	0.0329	20	-1.20	2%	0
033.01	Salt as chloride, Poten Cl (%)	2023	0.1050	0.0100	0.1229	0.0492	0.0084	6	-0.36	7%	0
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	2023	< 0.1					2			5
035.43	Sodium, ICP, Microwave (%)	2023	0.0036	0.0001	0.0062	0.0037	0.0006	5			0
037.43	Zinc, ICP, Microwave (ppm)	2023	33.50	1.000	72.84	5.149	3.364	21	-7.64	27%	0

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038.53	Molybdenum, ICP-MS, Microwave (ppm)	2023	0.9650	0.0100	1.002	0.0734	0.0506	5			0
106.02	Vitamin A, LC (KU / kg)	2023	< 0.3					0			5
108.01	Vitamin D3, LC, AOAC (KU / kg)	2023	< 0.05					0			5
109.02	Vitamin E, LC (IU / kg)	2023	4.000	0 Range				1			0
120.02	Alanine, Post-col OPA Der (%)	2023	0.6300	0.0400				1			0
121.02	Arginine, Post-col OPA Der (%)	2023	0.9750	0.0700				1			0
122.02	Aspartic, Post-col OPA Der (%)	2023	0.9450	0.0700				1			0
124.02	Cysteine/Cystine, PAO Post-col OPA Der (%)	2023	0.3750	0.0100				1			0
125.02	Glutamic, Post-col OPA Der (%)	2023	2.870	0.2000				1			0
126.02	Glycine, Post-col OPA Der (%)	2023	0.7350	0.0500				1			0
127.02	Histidine, Post-col OPA Der (%)	2023	0.3850	0.0300				1			0
128.02	Isoleucine, Post-col OPA Der (%)	2023	0.5100	0.0200				1			0
129.02	Leucine, Post-col OPA Der (%)	2023	0.9350	0.0700				1			0
130.02	L-Lysine, Post-col OPA Der (%)	2023	0.5200	0.0400				1			0
131.02	Methionine, PAO Post-col OPA Der (%)	2023	0.3050	0.0100				1			0
132.02	Phenylalanine, Post-col OPA Der (%)	2023	0.5700	0.0400				1			0
133.99	Proline, Miscellaneous (%)	2023	1.140	0.1000				2			0
134.02	Serine, Post-col OPA Der (%)	2023	0.6150	0.0500				1			0
135.02	Threonine, Post-col OPA Der (%)	2023	0.4300	0.0400				1			0
136.02	Tryptophan, Alka-Hydrol Post-col OPA De (%)	2023	0.2600	0 Range				1			0
137.02	Tyrosine, Post-col OPA Der (%)	2023	0.4000	0.0400				1			0
138.02	Valine, Post-col OPA Der (%)	2023	0.6600	0.0400				1			0
400.01	Water Activity, Aqualab chilled mirror (Units)	2023	0.5490	0.0020				3			0
520.53	Chromium, Total (Cr), ICP-MS, Microwave (ppm)	2023	0.2100	0 Range				2			0
539.53	Nickel, ICP-MS, Microwave (ppm)	2023	0.8550	0.0300				2			0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	2122	11.42	0.1300				3			0
002.04	Protein, Crude, Copper Catalyst (%)	2122	15.88	0.0300				2			0
004.07	Fiber, Crude, ANKOM (%)	2122	8.260	0.8200	9.285	0.8652	0.3634	23	-1.19	6%	0
005.00	Ash, 2h @ 600°C (%)	2122	5.745	0.0300	5.803	0.1018	0.0807	56	-0.57	0%	0
013.02	Fat, Pretreat, Mojonniier, Bak Ext, Acid hydrolysis	2122	4.710	0.3200	3.734	1.562	0.4196	14	0.62	13%	0
001.99	Loss on Drying, Miscellaneous (%)	2155	11.53	0.6000	10.46	1.494	0.4300	5			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2155	15.94	0.0760	16.02	0.3356	0.1257	85	-0.21	0%	0
013.99	Fat, Pretreat, Miscellaneous (%)	2155	4.570	0.0600				1			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2156	11.58	0.1600	11.57	0.2972	0.0794	55	0.02	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2156	16.49	0.2900	16.02	0.3356	0.1257	85	1.40	1%	0
005.00	Ash, 2h @ 600°C (%)	2156	5.750	0.0600	5.803	0.1018	0.0807	56	-0.52	0%	0
013.02	Fat, Pretreat, Mojonniier, Bak Ext, Acid hydrolysis	2156	1.480	0.5400	3.734	1.562	0.4196	14	-1.44	30%	0
019.44	Calcium, ICP, Dry ash (%)	2156	0.0850	0.0100	0.0769	0.0122	0.0100	38	0.66	5%	0
022.44	Copper, ICP, Dry ash (ppm)	2156	8.940	0.5600	7.584	1.655	0.7147	37	0.82	9%	0
027.44	Magnesium, ICP, Dry ash (%)	2156	0.5115	0.0050	0.4351	0.0832	0.0109	37	0.92	9%	0
028.44	Manganese, ICP, Dry ash (ppm)	2156	143.7	1.880	137.0	6.097	3.178	37	1.10	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	2156	1.290	0 Range	1.251	0.0560	0.0321	39	0.69	2%	0
032.44	Potassium, ICP, Dry ash (%)	2156	1.400	0.0200	1.358	0.0541	0.0310	37	0.77	2%	0
035.41	Sodium, ICP, Dry ash (%)	2156	0 Value		0.0100	0.0000		33			4

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037.41	Zinc, ICP, Dry ash (ppm)	2156	74.20	1.060	74.45	3.545	2.647	8	-0.07	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2184	15.46	0.1100	16.02	0.3356	0.1257	85	-1.67	2%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2184	1.710	0.0200	1.639	0.1829	0.0464	19	0.39	2%	0
005.00	Ash, 2h @ 600°C (%)	2184	5.685	0.1100	5.803	0.1018	0.0807	56	-1.16	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2184	12.43	0.0900	12.01	0.3735	0.0553	20	1.12	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2219	11.42	0.0800	11.57	0.2972	0.0794	55	-0.52	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2219	16.47	0.2200	16.02	0.3356	0.1257	85	1.35	1%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2219	1.820	0.0800	1.639	0.1829	0.0464	19	0.99	6%	0
005.00	Ash, 2h @ 600°C (%)	2219	5.870	0.0400	5.803	0.1018	0.0807	56	0.66	1%	0
019.44	Calcium, ICP, Dry ash (%)	2219	0.0850	0.0100	0.0769	0.0122	0.0100	38	0.66	5%	0
022.44	Copper, ICP, Dry ash (ppm)	2219	9.305	0.2100	7.584	1.655	0.7147	37	1.04	11%	0
027.44	Magnesium, ICP, Dry ash (%)	2219	0.5150	0.0300	0.4351	0.0832	0.0109	37	0.96	9%	0
028.44	Manganese, ICP, Dry ash (ppm)	2219	143.3	12.37	137.0	6.097	3.178	37	1.04	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	2219	1.360	0.1800	1.251	0.0560	0.0321	39	1.94	4%	0
032.44	Potassium, ICP, Dry ash (%)	2219	1.480	0.1600	1.358	0.0541	0.0310	37	2.25	4%	0
035.41	Sodium, ICP, Dry ash (%)	2219	0 Value		0.0100	0.0000		33			4
037.44	Zinc, ICP, Dry ash (ppm)	2219	74.93	3.250	71.56	3.125	1.473	34	1.08	2%	0
022.52	Copper, ICP-MS, Open vessel (ppm)	2250	10.35	0.1000				2			0
025.42	Iron, ICP, Open vessel (ppm)	2250	125.0	2.000	113.9	7.567	2.046	4			0
034.52	Selenium, Total (Se), ICP-MS, Open vessel (ppm)	2250	< 0.5					1			5
037.52	Zinc, ICP-MS, Open vessel (ppm)	2250	72.40	2.600				2			0
038.52	Molybdenum, ICP-MS, Open vessel (ppm)	2250	1.085	0.0100				2			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2293	11.56	0.1900	11.57	0.2972	0.0794	55	-0.06	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2293	16.53	0.1000	16.02	0.3356	0.1257	85	1.53	2%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2293	1.555	0.6300	1.639	0.1829	0.0464	19	-0.46	3%	1
005.00	Ash, 2h @ 600°C (%)	2293	5.770	0.2000	5.803	0.1018	0.0807	56	-0.32	0%	0
019.44	Calcium, ICP, Dry ash (%)	2293	0.0900	0 Range	0.0769	0.0122	0.0100	38	1.07	9%	0
022.44	Copper, ICP, Dry ash (ppm)	2293	9.020	0.1000	7.584	1.655	0.7147	37	0.87	9%	0
027.44	Magnesium, ICP, Dry ash (%)	2293	0.5230	0.0040	0.4351	0.0832	0.0109	37	1.06	10%	0
028.44	Manganese, ICP, Dry ash (ppm)	2293	145.5	6.220	137.0	6.097	3.178	37	1.40	3%	0
031.44	Phosphorus, ICP, Dry ash (%)	2293	1.320	0.0200	1.251	0.0560	0.0321	39	1.23	3%	0
032.44	Potassium, ICP, Dry ash (%)	2293	1.435	0.0100	1.358	0.0541	0.0310	37	1.42	3%	0
035.41	Sodium, ICP, Dry ash (%)	2293	0 Value		0.0100	0.0000		33			4
037.44	Zinc, ICP, Dry ash (ppm)	2293	75.94	2.120	71.56	3.125	1.473	34	1.40	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2312	16.26	0.2500	16.02	0.3356	0.1257	85	0.71	1%	0
004.00	Fiber, Crude, Asbestos Free (%)	2312	9.450	0.1000	9.803	1.582	0.0974	7	-0.22	2%	0
005.00	Ash, 2h @ 600°C (%)	2312	5.700	0.0800	5.803	0.1018	0.0807	56	-1.01	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2312	11.68	0.1200	12.01	0.3735	0.0553	20	-0.88	1%	0
013.02	Fat, Pretreat, Mojonniier, Bak Ext, Acid hydrolysis	2312	2.660	0.9600	3.734	1.562	0.4196	14	-0.69	14%	0
400.01	Water Activity, Aqualab chilled mirror (Units)	2312	0.5350	0.0340				3			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2362	11.47	0.0400	11.57	0.2972	0.0794	55	-0.35	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2362	16.46	0.3000	16.02	0.3356	0.1257	85	1.32	1%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2362	1.795	0.0700	1.639	0.1829	0.0464	19	0.85	5%	0
005.00	Ash, 2h @ 600°C (%)	2362	5.750	0.0200	5.803	0.1018	0.0807	56	-0.52	0%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	Rob R-bar	# Labs			
019.44	Calcium, ICP, Dry ash (%)	2362	0.0900	0.0200	0.0769	0.0122	0.0100	38	1.07	9%	0
022.44	Copper, ICP, Dry ash (ppm)	2362	8.435	1.170	7.584	1.655	0.7147	37	0.51	6%	0
027.44	Magnesium, ICP, Dry ash (%)	2362	0.5575	0.0830	0.4351	0.0832	0.0109	37	1.47	14%	1
028.44	Manganese, ICP, Dry ash (ppm)	2362	155.8	17.91	137.0	6.097	3.178	37	3.08	7%	0
031.44	Phosphorus, ICP, Dry ash (%)	2362	1.435	0.1700	1.251	0.0560	0.0321	39	3.28	7%	0
032.44	Potassium, ICP, Dry ash (%)	2362	1.515	0.2100	1.358	0.0541	0.0310	37	2.90	6%	1
035.41	Sodium, ICP, Dry ash (%)	2362	0.0050	0.0100	0.0100	0.0000		33			4
037.44	Zinc, ICP, Dry ash (ppm)	2362	80.29	11.25	71.56	3.125	1.473	34	2.79	6%	0
002.01	Protein, Crude, Auto Kjel-Foss (%)	2373	15.22	0.0100	15.91	0.5463	0.0850	5			0
004.07	Fiber, Crude, ANKOM (%)	2373	10.00	0.0400	9.285	0.8652	0.3634	23	0.83	4%	0
005.00	Ash, 2h @ 600°C (%)	2373	5.775	0.0300	5.803	0.1018	0.0807	56	-0.27	0%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2373	11.29	0.0200	12.01	0.3735	0.0553	20	-1.92	3%	0
019.00	Calcium, Ox-Mn04 Vol. (%)	2373	0.1600	0 Range				1			0
031.01	Phosphorus, Photometric (%)	2373	1.080	0 Range				3			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2380	11.65	0.0100	11.57	0.2972	0.0794	55	0.24	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2380	15.89	0.2400	16.02	0.3356	0.1257	85	-0.38	0%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2380	1.580	0.0200	1.639	0.1829	0.0464	19	-0.32	2%	0
005.00	Ash, 2h @ 600°C (%)	2380	5.720	0.0200	5.803	0.1018	0.0807	56	-0.81	1%	0
019.44	Calcium, ICP, Dry ash (%)	2380	0.0800	0 Range	0.0769	0.0122	0.0100	38	0.25	2%	0
022.44	Copper, ICP, Dry ash (ppm)	2380	8.245	1.170	7.584	1.655	0.7147	37	0.40	4%	0
027.44	Magnesium, ICP, Dry ash (%)	2380	0.4855	0.0070	0.4351	0.0832	0.0109	37	0.61	6%	0
028.44	Manganese, ICP, Dry ash (ppm)	2380	138.8	0.7000	137.0	6.097	3.178	37	0.30	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2380	1.255	0.0300	1.251	0.0560	0.0321	39	0.07	0%	0
032.44	Potassium, ICP, Dry ash (%)	2380	1.430	0.0200	1.358	0.0541	0.0310	37	1.32	3%	0
035.41	Sodium, ICP, Dry ash (%)	2380	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2380	71.71	0.7500	71.56	3.125	1.473	34	0.05	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2382	11.65	0.0400	11.57	0.2972	0.0794	55	0.26	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2382	15.84	0.1400	16.02	0.3356	0.1257	85	-0.52	1%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2382	1.460	0.0800	1.639	0.1829	0.0464	19	-0.98	5%	0
005.00	Ash, 2h @ 600°C (%)	2382	5.770	0.0200	5.803	0.1018	0.0807	56	-0.32	0%	0
019.44	Calcium, ICP, Dry ash (%)	2382	0.0800	0 Range	0.0769	0.0122	0.0100	38	0.25	2%	0
022.44	Copper, ICP, Dry ash (ppm)	2382	7.675	1.570	7.584	1.655	0.7147	37	0.06	1%	0
027.44	Magnesium, ICP, Dry ash (%)	2382	0.4955	0.0290	0.4351	0.0832	0.0109	37	0.73	7%	0
028.44	Manganese, ICP, Dry ash (ppm)	2382	135.3	0.1600	137.0	6.097	3.178	37	-0.27	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2382	1.250	0 Range	1.251	0.0560	0.0321	39	-0.02	0%	0
032.44	Potassium, ICP, Dry ash (%)	2382	1.390	0 Range	1.358	0.0541	0.0310	37	0.58	1%	0
035.41	Sodium, ICP, Dry ash (%)	2382	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2382	72.09	0.2500	71.56	3.125	1.473	34	0.17	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2385	11.66	0.1800	11.57	0.2972	0.0794	55	0.29	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2385	15.95	0.0200	16.02	0.3356	0.1257	85	-0.20	0%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2385	1.615	0.0300	1.639	0.1829	0.0464	19	-0.13	1%	0
005.00	Ash, 2h @ 600°C (%)	2385	5.855	0.0300	5.803	0.1018	0.0807	56	0.51	0%	0
019.44	Calcium, ICP, Dry ash (%)	2385	0.0800	0 Range	0.0769	0.0122	0.0100	38	0.25	2%	0
022.44	Copper, ICP, Dry ash (ppm)	2385	7.890	0.5600	7.584	1.655	0.7147	37	0.18	2%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	Rob R-bar	# Labs			
027.44	Magnesium, ICP, Dry ash (%)	2385	0.4885	0.0030	0.4351	0.0832	0.0109	37	0.64	6%	0
028.44	Manganese, ICP, Dry ash (ppm)	2385	137.5	0.8500	137.0	6.097	3.178	37	0.08	0%	0
031.44	Phosphorus, ICP, Dry ash (%)	2385	1.240	0 Range	1.251	0.0560	0.0321	39	-0.20	0%	0
032.44	Potassium, ICP, Dry ash (%)	2385	1.355	0.0100	1.358	0.0541	0.0310	37	-0.06	0%	0
035.41	Sodium, ICP, Dry ash (%)	2385	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2385	71.95	0.0300	71.56	3.125	1.473	34	0.12	0%	0
001.03	Loss on Drying, Low temp. methods (%)	2393	11.09	0.1100				1			0
002.05	Protein, Crude, Copper, Boric Acid (%)	2393	14.45	0.3400				3			0
003.99	Fat, Crude, Miscellaneous (%)	2393	1.485	0.0100				3			0
004.07	Fiber, Crude, ANKOM (%)	2393	10.34	0.5300	9.285	0.8652	0.3634	23	1.21	6%	0
005.00	Ash, 2h @ 600°C (%)	2393	8.665	0.3900	5.803	0.1018	0.0807	56	28.11	25%	2
011.01	Loss on Drying, HT, 135°C 2hr (%)	2393	12.23	0.0100	12.01	0.3735	0.0553	20	0.58	1%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2393	4.120	0.2200	4.278	0.2181	0.1303	12	-0.72	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2395	11.59	0.1300	11.57	0.2972	0.0794	55	0.04	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2395	16.56	0.0600	16.02	0.3356	0.1257	85	1.62	2%	0
005.00	Ash, 2h @ 600°C (%)	2395	5.780	0.1800	5.803	0.1018	0.0807	56	-0.22	0%	0
013.02	Fat, Pretreat, Mojonner, Bak Ext, Acid hydrolysis	2395	1.505	0.5900	3.734	1.562	0.4196	14	-1.43	30%	0
019.44	Calcium, ICP, Dry ash (%)	2395	0.0800	0 Range	0.0769	0.0122	0.0100	38	0.25	2%	0
022.44	Copper, ICP, Dry ash (ppm)	2395	9.090	0.6200	7.584	1.655	0.7147	37	0.91	10%	0
027.44	Magnesium, ICP, Dry ash (%)	2395	0.5065	0.0130	0.4351	0.0832	0.0109	37	0.86	8%	0
028.44	Manganese, ICP, Dry ash (ppm)	2395	144.7	6.010	137.0	6.097	3.178	37	1.27	3%	0
031.44	Phosphorus, ICP, Dry ash (%)	2395	1.300	0.0400	1.251	0.0560	0.0321	39	0.87	2%	0
032.44	Potassium, ICP, Dry ash (%)	2395	1.385	0.0500	1.358	0.0541	0.0310	37	0.49	1%	0
035.41	Sodium, ICP, Dry ash (%)	2395	0 Value		0.0100	0.0000		33			4
037.41	Zinc, ICP, Dry ash (ppm)	2395	74.03	1.930	74.45	3.545	2.647	8	-0.12	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2396	11.61	0.2100	11.57	0.2972	0.0794	55	0.11	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2396	16.49	0.1300	16.02	0.3356	0.1257	85	1.40	1%	0
005.00	Ash, 2h @ 600°C (%)	2396	5.810	0.0400	5.803	0.1018	0.0807	56	0.07	0%	0
013.02	Fat, Pretreat, Mojonner, Bak Ext, Acid hydrolysis	2396	1.470	0.5000	3.734	1.562	0.4196	14	-1.45	30%	0
019.44	Calcium, ICP, Dry ash (%)	2396	0.0800	0 Range	0.0769	0.0122	0.0100	38	0.25	2%	0
022.44	Copper, ICP, Dry ash (ppm)	2396	8.910	0.7800	7.584	1.655	0.7147	37	0.80	9%	0
027.44	Magnesium, ICP, Dry ash (%)	2396	0.5060	0.0100	0.4351	0.0832	0.0109	37	0.85	8%	0
028.41	Manganese, ICP, Dry ash (ppm)	2396	141.3	4.090	136.2	5.528	6.453	6	0.92	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	2396	1.285	0.0500	1.251	0.0560	0.0321	39	0.60	1%	0
032.44	Potassium, ICP, Dry ash (%)	2396	1.385	0.0300	1.358	0.0541	0.0310	37	0.49	1%	0
035.41	Sodium, ICP, Dry ash (%)	2396	0 Value		0.0100	0.0000		33			4
037.44	Zinc, ICP, Dry ash (ppm)	2396	73.38	2.180	71.56	3.125	1.473	34	0.58	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2398	10.03	0.0200	11.57	0.2972	0.0794	55	-5.19	7%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2398	15.81	0.0300	16.02	0.3356	0.1257	85	-0.63	1%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2398	1.590	0.0400	1.639	0.1829	0.0464	19	-0.27	1%	0
005.00	Ash, 2h @ 600°C (%)	2398	5.920	0.0600	5.803	0.1018	0.0807	56	1.15	1%	0
019.44	Calcium, ICP, Dry ash (%)	2398	0.0850	0.0100	0.0769	0.0122	0.0100	38	0.66	5%	0
022.44	Copper, ICP, Dry ash (ppm)	2398	8.600	0.4200	7.584	1.655	0.7147	37	0.61	7%	0
027.44	Magnesium, ICP, Dry ash (%)	2398	0.0490	0.0020	0.4351	0.0832	0.0109	37	-4.64	44%	0

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028.44	Manganese, ICP, Dry ash (ppm)	2398	139.2	0.0300	137.0	6.097	3.178	37	0.37	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2398	1.240	0.0200	1.251	0.0560	0.0321	39	-0.20	0%	0
032.44	Potassium, ICP, Dry ash (%)	2398	1.355	0.0100	1.358	0.0541	0.0310	37	-0.06	0%	0
035.41	Sodium, ICP, Dry ash (%)	2398	0.0150	0.0100	0.0100	0.0000		33	>100	25%	1
037.44	Zinc, ICP, Dry ash (ppm)	2398	72.73	0.7800	71.56	3.125	1.473	34	0.37	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2408	11.34	0.1000	11.57	0.2972	0.0794	55	-0.78	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2408	16.55	0.1800	16.02	0.3356	0.1257	85	1.59	2%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2408	1.635	0.0500	1.548	0.1532	0.0819	18	0.57	3%	0
005.00	Ash, 2h @ 600°C (%)	2408	5.805	0.0500	5.803	0.1018	0.0807	56	0.02	0%	0
019.44	Calcium, ICP, Dry ash (%)	2408	0.0900	0 Range	0.0769	0.0122	0.0100	38	1.07	9%	0
022.44	Copper, ICP, Dry ash (ppm)	2408	7.920	2.120	7.584	1.655	0.7147	37	0.20	2%	0
027.44	Magnesium, ICP, Dry ash (%)	2408	0.5300	0 Range	0.4351	0.0832	0.0109	37	1.14	11%	0
028.44	Manganese, ICP, Dry ash (ppm)	2408	149.3	7.490	137.0	6.097	3.178	37	2.02	5%	0
031.44	Phosphorus, ICP, Dry ash (%)	2408	1.350	0.0400	1.251	0.0560	0.0321	39	1.76	4%	0
032.44	Potassium, ICP, Dry ash (%)	2408	1.445	0.0300	1.358	0.0541	0.0310	37	1.60	3%	0
035.41	Sodium, ICP, Dry ash (%)	2408	0 Value		0.0100	0.0000		33			4
037.44	Zinc, ICP, Dry ash (ppm)	2408	76.87	2.230	71.56	3.125	1.473	34	1.70	4%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2409	15.66	0.0630	16.02	0.3356	0.1257	85	-1.07	1%	0
003.14	Fat, Crude, Ankom (%)	2409	1.810	0.0400	1.738	0.2668	0.1681	15	0.27	2%	0
004.07	Fiber, Crude, ANKOM (%)	2409	9.095	0.1900	9.285	0.8652	0.3634	23	-0.22	1%	0
005.99	Ash, Miscellaneous (%)	2409	5.800	0.0600				3			0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	2409	12.03	0.2790	11.55	0.8687	0.2567	10	0.55	2%	0
010.99	Moisture, Miscellaneous (%)	2409	11.72	0.0100	11.80	0.5411	0.0548	5			0
019.53	Calcium, ICP-MS, Microwave (%)	2409	0.0922	0.0225	0.0853	0.0090	0.0099	5			0
022.53	Copper, ICP-MS, Microwave (ppm)	2409	10.67	0.6280	10.34	0.2722	0.3041	5			0
025.53	Iron, ICP-MS, Microwave (ppm)	2409	138.4	14.17	124.4	12.81	9.003	5			0
027.53	Magnesium, ICP-MS, Microwave (%)	2409	0.5534	0.1882	0.5105	0.0287	0.0671	5			0
028.53	Manganese, ICP-MS, Microwave (ppm)	2409	175.0	21.67				3			1
031.53	Phosphorus, ICP-MS, Microwave (%)	2409	1.200	0.0800	1.297	0.1022	0.0995	5			0
032.53	Potassium, ICP-MS, Microwave (%)	2409	1.340	0.1800	1.399	0.0696	0.1092	5			0
037.53	Zinc, ICP-MS, Microwave (ppm)	2409	72.68	18.67				3			1
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2415	11.77	0.0200	11.57	0.2972	0.0794	55	0.66	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2415	15.95	0.1000	16.02	0.3356	0.1257	85	-0.20	0%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2415	1.380	0.0200	1.639	0.1829	0.0464	19	-1.42	8%	0
005.00	Ash, 2h @ 600°C (%)	2415	5.795	0.0100	5.803	0.1018	0.0807	56	-0.08	0%	0
019.44	Calcium, ICP, Dry ash (%)	2415	0.0800	0 Range	0.0769	0.0122	0.0100	38	0.25	2%	0
022.44	Copper, ICP, Dry ash (ppm)	2415	6.215	0.5900	7.584	1.655	0.7147	37	-0.83	9%	0
027.44	Magnesium, ICP, Dry ash (%)	2415	0.4875	0.0030	0.4351	0.0832	0.0109	37	0.63	6%	0
028.44	Manganese, ICP, Dry ash (ppm)	2415	140.5	1.210	137.0	6.097	3.178	37	0.58	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2415	1.270	0.0200	1.251	0.0560	0.0321	39	0.34	1%	0
032.44	Potassium, ICP, Dry ash (%)	2415	1.350	0.0200	1.358	0.0541	0.0310	37	-0.15	0%	0
035.41	Sodium, ICP, Dry ash (%)	2415	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2415	72.06	0.0500	71.56	3.125	1.473	34	0.16	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2416	36.13	0.8100	11.57	0.2972	0.0794	55	82.61	106%	2

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002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2416	15.93	0.0990	16.02	0.3356	0.1257	85	-0.26	0%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2416	1.485	0.1100	1.548	0.1532	0.0819	18	-0.41	2%	0
005.05	Ash, 3h @ 550°C (%)	2416	6.080	0.0800	5.879	0.1219	0.1191	13	1.65	2%	0
019.44	Calcium, ICP, Dry ash (%)	2416	0.0600	0 Range	0.0769	0.0122	0.0100	38	-1.39	11%	0
022.44	Copper, ICP, Dry ash (ppm)	2416	6.569	0.6370	7.584	1.655	0.7147	37	-0.61	7%	0
027.44	Magnesium, ICP, Dry ash (%)	2416	0.3745	0.0170	0.4351	0.0832	0.0109	37	-0.73	7%	0
028.44	Manganese, ICP, Dry ash (ppm)	2416	144.1	17.20	137.0	6.097	3.178	37	1.17	3%	0
031.44	Phosphorus, ICP, Dry ash (%)	2416	1.235	0.0100	1.251	0.0560	0.0321	39	-0.29	1%	0
032.44	Potassium, ICP, Dry ash (%)	2416	1.375	0.0100	1.358	0.0541	0.0310	37	0.31	1%	0
035.41	Sodium, ICP, Dry ash (%)	2416	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2416	69.38	0.7500	71.56	3.125	1.473	34	-0.70	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2417	15.77	0.0180	16.02	0.3356	0.1257	85	-0.75	1%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2417	1.410	0.0600	1.548	0.1532	0.0819	18	-0.90	4%	0
019.44	Calcium, ICP, Dry ash (%)	2417	0.0600	0.0200	0.0769	0.0122	0.0100	38	-1.39	11%	0
022.44	Copper, ICP, Dry ash (ppm)	2417	5.668	1.187	7.584	1.655	0.7147	37	-1.16	13%	0
027.44	Magnesium, ICP, Dry ash (%)	2417	0.3550	0.0060	0.4351	0.0832	0.0109	37	-0.96	9%	0
028.44	Manganese, ICP, Dry ash (ppm)	2417	133.4	0.5000	137.0	6.097	3.178	37	-0.60	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2417	1.215	0.0500	1.251	0.0560	0.0321	39	-0.65	1%	0
032.44	Potassium, ICP, Dry ash (%)	2417	1.340	0.0400	1.358	0.0541	0.0310	37	-0.34	1%	0
035.41	Sodium, ICP, Dry ash (%)	2417	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2417	69.41	0.8500	71.56	3.125	1.473	34	-0.69	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2418	11.53	0.0530	11.57	0.2972	0.0794	55	-0.14	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2418	15.76	0.0060	16.02	0.3356	0.1257	85	-0.75	1%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2418	1.600	0.0110	1.548	0.1532	0.0819	18	0.33	2%	0
005.05	Ash, 3h @ 550°C (%)	2418	5.883	0.0600	5.879	0.1219	0.1191	13	0.03	0%	0
019.44	Calcium, ICP, Dry ash (%)	2418	0.0900	0 Range	0.0769	0.0122	0.0100	38	1.07	9%	0
022.44	Copper, ICP, Dry ash (ppm)	2418	5.495	0.3500	7.584	1.655	0.7147	37	-1.26	14%	0
027.44	Magnesium, ICP, Dry ash (%)	2418	0.3650	0.0100	0.4351	0.0832	0.0109	37	-0.84	8%	0
028.44	Manganese, ICP, Dry ash (ppm)	2418	140.8	0.3000	137.0	6.097	3.178	37	0.62	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2418	1.260	0.0200	1.251	0.0560	0.0321	39	0.16	0%	0
032.44	Potassium, ICP, Dry ash (%)	2418	1.370	0.0200	1.358	0.0541	0.0310	37	0.22	0%	0
035.41	Sodium, ICP, Dry ash (%)	2418	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2418	71.30	0.4400	71.56	3.125	1.473	34	-0.08	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2419	11.68	0.1300	11.57	0.2972	0.0794	55	0.34	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2419	15.88	0.0600	16.02	0.3356	0.1257	85	-0.41	0%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2419	1.455	0.0300	1.548	0.1532	0.0819	18	-0.61	3%	0
005.05	Ash, 3h @ 550°C (%)	2419	5.750	0.0600	5.879	0.1219	0.1191	13	-1.06	1%	0
019.44	Calcium, ICP, Dry ash (%)	2419	0.0400	0 Range	0.0769	0.0122	0.0100	38	-3.03	24%	0
022.44	Copper, ICP, Dry ash (ppm)	2419	4.650	0.0800	7.584	1.655	0.7147	37	-1.77	19%	0
027.44	Magnesium, ICP, Dry ash (%)	2419	0.3445	0.0010	0.4351	0.0832	0.0109	37	-1.09	10%	0
028.44	Manganese, ICP, Dry ash (ppm)	2419	127.7	1.300	137.0	6.097	3.178	37	-1.53	3%	0
031.44	Phosphorus, ICP, Dry ash (%)	2419	1.135	0.0100	1.251	0.0560	0.0321	39	-2.08	5%	0
032.44	Potassium, ICP, Dry ash (%)	2419	1.285	0.0100	1.358	0.0541	0.0310	37	-1.36	3%	0
035.41	Sodium, ICP, Dry ash (%)	2419	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0

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037.44	Zinc, ICP, Dry ash (ppm)	2419	63.66	2.490	71.56	3.125	1.473	34	-2.53	6%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2420	10.94	0.0300	11.57	0.2972	0.0794	55	-2.15	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2420	15.94	0.1300	16.02	0.3356	0.1257	85	-0.22	0%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2420	1.030	0.3000	1.548	0.1532	0.0819	18	-3.38	17%	0
005.05	Ash, 3h @ 550°C (%)	2420	6.020	0.1600	5.879	0.1219	0.1191	13	1.16	1%	0
019.44	Calcium, ICP, Dry ash (%)	2420	0.0500	0.0200	0.0769	0.0122	0.0100	38	-2.21	17%	0
022.44	Copper, ICP, Dry ash (ppm)	2420	7.141	0.4620	7.584	1.655	0.7147	37	-0.27	3%	0
027.44	Magnesium, ICP, Dry ash (%)	2420	0.3425	0.0090	0.4351	0.0832	0.0109	37	-1.11	11%	0
028.44	Manganese, ICP, Dry ash (ppm)	2420	129.4	6.900	137.0	6.097	3.178	37	-1.25	3%	0
031.44	Phosphorus, ICP, Dry ash (%)	2420	1.145	0.0300	1.251	0.0560	0.0321	39	-1.90	4%	0
032.44	Potassium, ICP, Dry ash (%)	2420	1.280	0.0200	1.358	0.0541	0.0310	37	-1.45	3%	0
035.41	Sodium, ICP, Dry ash (%)	2420	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2420	66.10	4.470	71.56	3.125	1.473	34	-1.75	4%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2421	11.34	0.1000	11.57	0.2972	0.0794	55	-0.78	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2421	15.96	0.0400	16.02	0.3356	0.1257	85	-0.17	0%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2421	1.365	0.0100	1.548	0.1532	0.0819	18	-1.20	6%	0
005.05	Ash, 3h @ 550°C (%)	2421	5.795	0.0100	5.879	0.1219	0.1191	13	-0.69	1%	0
019.44	Calcium, ICP, Dry ash (%)	2421	0.0600	0 Range	0.0769	0.0122	0.0100	38	-1.39	11%	0
022.44	Copper, ICP, Dry ash (ppm)	2421	5.952	0.6230	7.584	1.655	0.7147	37	-0.99	11%	0
027.44	Magnesium, ICP, Dry ash (%)	2421	0.3520	0.0220	0.4351	0.0832	0.0109	37	-1.00	10%	0
028.44	Manganese, ICP, Dry ash (ppm)	2421	134.1	10.00	137.0	6.097	3.178	37	-0.47	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2421	1.245	0.0100	1.251	0.0560	0.0321	39	-0.11	0%	0
032.44	Potassium, ICP, Dry ash (%)	2421	1.375	0.0100	1.358	0.0541	0.0310	37	0.31	1%	0
035.41	Sodium, ICP, Dry ash (%)	2421	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2421	69.64	5.450	71.56	3.125	1.473	34	-0.62	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2422	11.67	0.0600	11.57	0.2972	0.0794	55	0.33	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2422	15.78	0.2200	16.02	0.3356	0.1257	85	-0.72	1%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2422	1.535	0.1900	1.548	0.1532	0.0819	18	-0.09	0%	0
005.05	Ash, 3h @ 550°C (%)	2422	5.810	0.0200	5.879	0.1219	0.1191	13	-0.57	1%	0
019.44	Calcium, ICP, Dry ash (%)	2422	0.0400	0 Range	0.0769	0.0122	0.0100	38	-3.03	24%	0
022.44	Copper, ICP, Dry ash (ppm)	2422	6.160	0.3400	7.584	1.655	0.7147	37	-0.86	9%	0
027.44	Magnesium, ICP, Dry ash (%)	2422	0.3350	0.0100	0.4351	0.0832	0.0109	37	-1.20	12%	0
028.44	Manganese, ICP, Dry ash (ppm)	2422	128.8	1.000	137.0	6.097	3.178	37	-1.34	3%	0
031.44	Phosphorus, ICP, Dry ash (%)	2422	1.155	0.0100	1.251	0.0560	0.0321	39	-1.72	4%	0
032.44	Potassium, ICP, Dry ash (%)	2422	1.325	0.0300	1.358	0.0541	0.0310	37	-0.62	1%	0
035.41	Sodium, ICP, Dry ash (%)	2422	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2422	70.93	0.9600	71.56	3.125	1.473	34	-0.20	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2424	11.36	0.0600	11.57	0.2972	0.0794	55	-0.72	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2424	15.82	0.1800	16.02	0.3356	0.1257	85	-0.59	1%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2424	1.635	0.2500	1.548	0.1532	0.0819	18	0.57	3%	0
005.05	Ash, 3h @ 550°C (%)	2424	5.895	0.0900	5.879	0.1219	0.1191	13	0.13	0%	0
019.44	Calcium, ICP, Dry ash (%)	2424	0.0400	0 Range	0.0769	0.0122	0.0100	38	-3.03	24%	0
022.44	Copper, ICP, Dry ash (ppm)	2424	7.130	2.540	7.584	1.655	0.7147	37	-0.27	3%	0
027.44	Magnesium, ICP, Dry ash (%)	2424	0.3400	0 Range	0.4351	0.0832	0.0109	37	-1.14	11%	0

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028.44	Manganese, ICP, Dry ash (ppm)	2424	130.4	1.600	137.0	6.097	3.178	37	-1.08	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	2424	1.150	0.0200	1.251	0.0560	0.0321	39	-1.81	4%	0
032.44	Potassium, ICP, Dry ash (%)	2424	1.325	0.0300	1.358	0.0541	0.0310	37	-0.62	1%	0
035.41	Sodium, ICP, Dry ash (%)	2424	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2424	72.46	0.3200	71.56	3.125	1.473	34	0.29	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2426	9.785	0.0700	11.57	0.2972	0.0794	55	-6.02	8%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2426	15.51	0.1000	16.02	0.3356	0.1257	85	-1.51	2%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2426	1.725	0.0300	1.548	0.1532	0.0819	18	1.15	6%	0
005.05	Ash, 3h @ 550°C (%)	2426	6.210	0.1200	5.879	0.1219	0.1191	13	2.71	3%	0
019.44	Calcium, ICP, Dry ash (%)	2426	0.0700	0 Range	0.0769	0.0122	0.0100	38	-0.57	4%	0
027.44	Magnesium, ICP, Dry ash (%)	2426	0.3550	0.0100	0.4351	0.0832	0.0109	37	-0.96	9%	0
028.44	Manganese, ICP, Dry ash (ppm)	2426	130.2	6.700	137.0	6.097	3.178	37	-1.12	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	2426	1.210	0.0400	1.251	0.0560	0.0321	39	-0.74	2%	0
032.44	Potassium, ICP, Dry ash (%)	2426	1.335	0.0500	1.358	0.0541	0.0310	37	-0.43	1%	0
035.41	Sodium, ICP, Dry ash (%)	2426	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
019.53	Calcium, ICP-MS, Microwave (%)	2428	0.0850	0.0100	0.0853	0.0090	0.0099	5			0
022.43	Copper, ICP, Microwave (ppm)	2428	10.50	1.000	10.21	0.3821	0.3959	19	0.75	1%	0
025.53	Iron, ICP-MS, Microwave (ppm)	2428	125.0	10.00	124.4	12.81	9.003	5			0
027.53	Magnesium, ICP-MS, Microwave (%)	2428	0.4950	0.0700	0.5105	0.0287	0.0671	5			0
028.53	Manganese, ICP-MS, Microwave (ppm)	2428	150.0	0 Range				3			0
031.53	Phosphorus, ICP-MS, Microwave (%)	2428	1.400	0.2000	1.297	0.1022	0.0995	5			0
032.53	Potassium, ICP-MS, Microwave (%)	2428	1.400	0.2000	1.399	0.0696	0.1092	5			0
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	2428	< 0.5					2			5
037.53	Zinc, ICP-MS, Microwave (ppm)	2428	78.00	2.000				3			0
038.53	Molybdenum, ICP-MS, Microwave (ppm)	2428	0.9700	0.0600	1.002	0.0734	0.0506	5			0
120.99	Alanine, Miscellaneous (%)	2428	0.6950	0.1100				1			0
121.99	Arginine, Miscellaneous (%)	2428	1.005	0.0500				1			0
122.99	Aspartic, Miscellaneous (%)	2428	0.9300	0.0200				1			0
124.99	Cysteine/Cystine, Miscellaneous (%)	2428	0.3500	0.0400				1			0
125.99	Glutamic, Miscellaneous (%)	2428	2.945	0.2500				1			0
126.99	Glycine, Miscellaneous (%)	2428	0.7950	0.1700				1			0
127.99	Histidine, Miscellaneous (%)	2428	0.6300	0.4400				1			0
128.99	Isoleucine, Miscellaneous (%)	2428	0.4300	0.0400				1			0
129.99	Leucine, Miscellaneous (%)	2428	0.8750	0.2100				1			0
130.99	L-Lysine, Miscellaneous (%)	2428	0.5000	0.0600				1			0
131.99	Methionine, Miscellaneous (%)	2428	0.1850	0.0100				1			0
132.99	Phenylalanine, Miscellaneous (%)	2428	0.5650	0.0500				1			0
133.99	Proline, Miscellaneous (%)	2428	0.9100	0.0200				2			0
134.99	Serine, Miscellaneous (%)	2428	0.6800	0.0800				1			0
135.99	Threonine, Miscellaneous (%)	2428	0.4550	0.0500				1			0
136.99	Tryptophan, Miscellaneous (%)	2428	0.2800	0.1200				2			0
137.99	Tyrosine, Miscellaneous (%)	2428	0.3150	0.0300				1			0
138.99	Valine, Miscellaneous (%)	2428	0.5700	0.0200				1			0
516.53	Arsenic, Total (As), ICP-MS, Microwave (ppm)	2428	< 0.5					1			5

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520.53	Chromium, Total (Cr), ICP-MS, Microwave (ppm)	2428	< 0.5					2			5
526.53	Lead, ICP-MS, Microwave (ppm)	2428	< 0.5					1			5
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2429	11.87	0.0500	11.57	0.2972	0.0794	55	0.98	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2429	15.92	0.0400	16.02	0.3356	0.1257	85	-0.29	0%	0
005.03	Ash, Microwave furnace (%)	2429	5.950	0 Range	5.940	0.0532	0.0300	9	0.19	0%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2429	4.350	0.0800	4.278	0.2181	0.1303	12	0.33	1%	0
019.43	Calcium, ICP, Microwave (%)	2429	0.0781	0.0022	0.0794	0.0042	0.0042	21	-0.32	1%	0
022.43	Copper, ICP, Microwave (ppm)	2429	9.900	0.2000	10.21	0.3821	0.3959	19	-0.82	2%	0
027.43	Magnesium, ICP, Microwave (%)	2429	0.5143	0.0022	0.5042	0.0318	0.0105	21	0.32	1%	0
028.43	Manganese, ICP, Microwave (ppm)	2429	141.3	5.100	140.3	5.246	4.746	20	0.17	0%	0
031.43	Phosphorus, ICP, Microwave (%)	2429	1.322	0.0471	1.324	0.0719	0.0409	20	-0.02	0%	0
032.43	Potassium, ICP, Microwave (%)	2429	1.410	0.0183	1.419	0.0536	0.0329	20	-0.18	0%	0
037.43	Zinc, ICP, Microwave (ppm)	2429	74.20	3.600	72.84	5.149	3.364	21	0.26	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2433	17.10	1.600	16.02	0.3356	0.1257	85	3.23	3%	1
003.14	Fat, Crude, Ankom (%)	2433	1.811	0.1340	1.738	0.2668	0.1681	15	0.28	2%	0
004.07	Fiber, Crude, ANKOM (%)	2433	9.306	0.3114	9.285	0.8652	0.3634	23	0.02	0%	0
005.00	Ash, 2h @ 600°C (%)	2433	5.701	0.1640	5.803	0.1018	0.0807	56	-1.00	1%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	2433	10.81	0.0029	11.55	0.8687	0.2567	10	-0.86	3%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	2433	39.67	1.562	40.76	1.473	0.4335	7	-0.74	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2433	12.46	0.0187	12.01	0.3735	0.0553	20	1.21	2%	0
013.13	Fat, Pretreat, Ankom- Acid Hydrolysis (%)	2433	4.232	0.0533				3			0
019.42	Calcium, ICP, Open vessel (%)	2433	0.0780	0.0029				3			0
022.42	Copper, ICP, Open vessel (ppm)	2433	10.03	0.2002				2			0
025.42	Iron, ICP, Open vessel (ppm)	2433	108.7	2.083	113.9	7.567	2.046	4			0
027.42	Magnesium, ICP, Open vessel (%)	2433	0.4589	0.0033				3			0
028.42	Manganese, ICP, Open vessel (ppm)	2433	128.1	3.125				3			0
031.42	Phosphorus, ICP, Open vessel (%)	2433	1.151	0.0061	1.276	0.1047	0.0067	4			0
032.42	Potassium, ICP, Open vessel (%)	2433	1.261	0.0289	1.420	0.1118	0.0250	4			0
035.42	Sodium, ICP, Open vessel (%)	2433	0.0242	0.0007				2			0
037.42	Zinc, ICP, Open vessel (ppm)	2433	66.72	3.593				3			0
042.00	Chloride, Titrimetric (%)	2433	0.0582	0.0022				1			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2435	11.84	0.1900	11.57	0.2972	0.0794	55	0.88	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2435	15.95	0.0200	16.02	0.3356	0.1257	85	-0.20	0%	0
005.03	Ash, Microwave furnace (%)	2435	5.935	0.0300	5.940	0.0532	0.0300	9	-0.09	0%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2435	4.370	0.1000	4.278	0.2181	0.1303	12	0.42	1%	0
019.43	Calcium, ICP, Microwave (%)	2435	0.0743	0.0108	0.0794	0.0042	0.0042	21	-1.22	3%	0
022.43	Copper, ICP, Microwave (ppm)	2435	10.00	0.6000	10.21	0.3821	0.3959	19	-0.56	1%	0
027.43	Magnesium, ICP, Microwave (%)	2435	0.5179	0.0088	0.5042	0.0318	0.0105	21	0.43	1%	0
028.43	Manganese, ICP, Microwave (ppm)	2435	141.3	8.600	140.3	5.246	4.746	20	0.18	0%	0
031.43	Phosphorus, ICP, Microwave (%)	2435	1.332	0.0739	1.324	0.0719	0.0409	20	0.11	0%	0
032.43	Potassium, ICP, Microwave (%)	2435	1.417	0.0452	1.419	0.0536	0.0329	20	-0.05	0%	0
037.34	Zinc, AAS, Dry ash (ppm)	2435	74.90	4.600				1			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2436	11.83	0.0600	11.57	0.2972	0.0794	55	0.86	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2436	15.92	0 Range	16.02	0.3356	0.1257	85	-0.29	0%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	Rob R-bar	# Labs			
005.03	Ash, Microwave furnace (%)	2436	5.935	0.0300	5.940	0.0532	0.0300	9	-0.09	0%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2436	4.365	0.0100	4.278	0.2181	0.1303	12	0.40	1%	0
019.43	Calcium, ICP, Microwave (%)	2436	0.0734	0.0112	0.0794	0.0042	0.0042	21	-1.43	4%	0
022.43	Copper, ICP, Microwave (ppm)	2436	10.10	0.6000	10.21	0.3821	0.3959	19	-0.30	1%	0
027.43	Magnesium, ICP, Microwave (%)	2436	0.5195	0.0013	0.5042	0.0318	0.0105	21	0.48	2%	0
028.43	Manganese, ICP, Microwave (ppm)	2436	141.8	7.900	140.3	5.246	4.746	20	0.27	1%	0
031.43	Phosphorus, ICP, Microwave (%)	2436	0.8477	0.9307	1.324	0.0719	0.0409	20	-6.63	18%	1
032.43	Potassium, ICP, Microwave (%)	2436	0.4228	0.0428	1.419	0.0536	0.0329	20	-18.58	35%	2
037.43	Zinc, ICP, Microwave (ppm)	2436	74.70	5.000	72.84	5.149	3.364	21	0.36	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2438	11.83	0.1600	11.57	0.2972	0.0794	55	0.86	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2438	15.84	0.0900	16.02	0.3356	0.1257	85	-0.54	1%	0
005.03	Ash, Microwave furnace (%)	2438	5.875	0.0700	5.940	0.0532	0.0300	9	-1.22	1%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2438	4.310	0.1200	4.278	0.2181	0.1303	12	0.15	0%	0
019.43	Calcium, ICP, Microwave (%)	2438	0.0758	0.0126	0.0794	0.0042	0.0042	21	-0.86	2%	0
022.43	Copper, ICP, Microwave (ppm)	2438	10.45	0.7000	10.21	0.3821	0.3959	19	0.62	1%	0
027.43	Magnesium, ICP, Microwave (%)	2438	0.5421	0.0120	0.5042	0.0318	0.0105	21	1.19	4%	0
028.43	Manganese, ICP, Microwave (ppm)	2438	146.8	10.00	140.3	5.246	4.746	20	1.23	2%	0
031.43	Phosphorus, ICP, Microwave (%)	2438	1.397	0.0790	1.324	0.0719	0.0409	20	1.01	3%	0
032.43	Potassium, ICP, Microwave (%)	2438	1.472	0.0685	1.419	0.0536	0.0329	20	0.98	2%	0
037.43	Zinc, ICP, Microwave (ppm)	2438	78.45	6.100	72.84	5.149	3.364	21	1.09	4%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2439	11.80	0.0600	11.57	0.2972	0.0794	55	0.76	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2439	15.97	0 Range	16.02	0.3356	0.1257	85	-0.14	0%	0
005.03	Ash, Microwave furnace (%)	2439	5.895	0.0700	5.940	0.0532	0.0300	9	-0.85	0%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2439	4.300	0.2600	4.278	0.2181	0.1303	12	0.10	0%	0
019.43	Calcium, ICP, Microwave (%)	2439	0.0783	0.0004	0.0794	0.0042	0.0042	21	-0.27	1%	0
022.43	Copper, ICP, Microwave (ppm)	2439	10.05	0.3000	10.21	0.3821	0.3959	19	-0.43	1%	0
027.43	Magnesium, ICP, Microwave (%)	2439	0.5147	0.0006	0.5042	0.0318	0.0105	21	0.33	1%	0
028.43	Manganese, ICP, Microwave (ppm)	2439	140.1	6.500	140.3	5.246	4.746	20	-0.06	0%	0
031.43	Phosphorus, ICP, Microwave (%)	2439	1.321	0.0534	1.324	0.0719	0.0409	20	-0.04	0%	0
032.43	Potassium, ICP, Microwave (%)	2439	1.407	0.0324	1.419	0.0536	0.0329	20	-0.23	0%	0
037.43	Zinc, ICP, Microwave (ppm)	2439	73.70	3.600	72.84	5.149	3.364	21	0.17	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2441	11.91	0.0100	11.57	0.2972	0.0794	55	1.12	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2441	16.35	0.8000	16.02	0.3356	0.1257	85	0.99	1%	0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	2441	1.245	0.0300	1.489	0.2251	0.0392	10	-1.08	8%	0
005.00	Ash, 2h @ 600°C (%)	2441	6.035	0.1500	5.803	0.1018	0.0807	56	2.28	2%	0
019.44	Calcium, ICP, Dry ash (%)	2441	0.0800	0 Range	0.0769	0.0122	0.0100	38	0.25	2%	0
022.44	Copper, ICP, Dry ash (ppm)	2441	9.645	0.0300	7.584	1.655	0.7147	37	1.25	14%	0
027.44	Magnesium, ICP, Dry ash (%)	2441	0.4615	0.0010	0.4351	0.0832	0.0109	37	0.32	3%	0
028.44	Manganese, ICP, Dry ash (ppm)	2441	132.1	3.420	137.0	6.097	3.178	37	-0.81	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	2441	1.270	0.0200	1.251	0.0560	0.0321	39	0.34	1%	0
032.44	Potassium, ICP, Dry ash (%)	2441	1.325	0.0100	1.358	0.0541	0.0310	37	-0.62	1%	0
035.41	Sodium, ICP, Dry ash (%)	2441	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2441	69.63	0.1300	71.56	3.125	1.473	34	-0.62	1%	0
019.43	Calcium, ICP, Microwave (%)	2443	0.1670	0 Range	0.0794	0.0042	0.0042	21	20.73	55%	2

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	Rob R-bar	# Labs			
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2444	11.94	0.0200	11.57	0.2972	0.0794	55	1.23	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2444	15.84	0.2000	16.02	0.3356	0.1257	85	-0.52	1%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2444	1.430	0.1000	1.639	0.1829	0.0464	19	-1.14	6%	0
005.00	Ash, 2h @ 600°C (%)	2444	5.780	0.0600	5.803	0.1018	0.0807	56	-0.22	0%	0
019.44	Calcium, ICP, Dry ash (%)	2444	0.0800	0 Range	0.0769	0.0122	0.0100	38	0.25	2%	0
022.44	Copper, ICP, Dry ash (ppm)	2444	6.825	0.5300	7.584	1.655	0.7147	37	-0.46	5%	0
027.44	Magnesium, ICP, Dry ash (%)	2444	0.4700	0 Range	0.4351	0.0832	0.0109	37	0.42	4%	0
028.44	Manganese, ICP, Dry ash (ppm)	2444	135.0	2.120	137.0	6.097	3.178	37	-0.32	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2444	1.205	0.0100	1.251	0.0560	0.0321	39	-0.83	2%	0
032.44	Potassium, ICP, Dry ash (%)	2444	1.295	0.0100	1.358	0.0541	0.0310	37	-1.17	2%	0
035.41	Sodium, ICP, Dry ash (%)	2444	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2444	67.66	0.9700	71.56	3.125	1.473	34	-1.25	3%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2445	11.71	0.0400	11.57	0.2972	0.0794	55	0.46	1%	0
002.01	Protein, Crude, Auto Kjel-Foss (%)	2445	15.83	0.1200	15.91	0.5463	0.0850	5			0
003.14	Fat, Crude, Ankom (%)	2445	1.620	0.2800	1.738	0.2668	0.1681	15	-0.44	3%	0
004.07	Fiber, Crude, ANKOM (%)	2445	10.05	0.0200	9.285	0.8652	0.3634	23	0.88	4%	0
005.00	Ash, 2h @ 600°C (%)	2445	5.840	0.0400	5.803	0.1018	0.0807	56	0.37	0%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	2445	12.30	0.1100	11.55	0.8687	0.2567	10	0.86	3%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	2445	41.27	0.2700	40.76	1.473	0.4335	7	0.34	1%	0
019.44	Calcium, ICP, Dry ash (%)	2445	0.1000	0 Range	0.0769	0.0122	0.0100	38	1.89	15%	0
022.43	Copper, ICP, Microwave (ppm)	2445	14.09	0.4200	10.21	0.3821	0.3959	19	10.14	19%	0
031.44	Phosphorus, ICP, Dry ash (%)	2445	1.275	0.0100	1.251	0.0560	0.0321	39	0.42	1%	0
037.43	Zinc, ICP, Microwave (ppm)	2445	66.97	5.940	72.84	5.149	3.364	21	-1.14	4%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2452	11.37	0.0400	11.57	0.2972	0.0794	55	-0.68	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2452	15.88	0.0140	16.02	0.3356	0.1257	85	-0.41	0%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2452	1.255	0.1300	1.548	0.1532	0.0819	18	-1.92	9%	0
005.05	Ash, 3h @ 550°C (%)	2452	5.855	0.1700	5.879	0.1219	0.1191	13	-0.20	0%	0
019.44	Calcium, ICP, Dry ash (%)	2452	0.0550	0.0100	0.0769	0.0122	0.0100	38	-1.80	14%	0
022.44	Copper, ICP, Dry ash (ppm)	2452	8.095	0.8060	7.584	1.655	0.7147	37	0.31	3%	0
027.44	Magnesium, ICP, Dry ash (%)	2452	0.3510	0.0140	0.4351	0.0832	0.0109	37	-1.01	10%	0
028.44	Manganese, ICP, Dry ash (ppm)	2452	132.5	5.000	137.0	6.097	3.178	37	-0.74	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	2452	1.185	0.0300	1.251	0.0560	0.0321	39	-1.18	3%	0
032.44	Potassium, ICP, Dry ash (%)	2452	1.315	0.0300	1.358	0.0541	0.0310	37	-0.80	2%	0
035.41	Sodium, ICP, Dry ash (%)	2452	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2452	68.16	1.740	71.56	3.125	1.473	34	-1.09	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2459	16.11	0 Range	16.02	0.3356	0.1257	85	0.28	0%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2459	1.585	0.1500	1.639	0.1829	0.0464	19	-0.30	2%	0
005.00	Ash, 2h @ 600°C (%)	2459	5.830	0 Range	5.803	0.1018	0.0807	56	0.27	0%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2459	12.79	0.0100	12.01	0.3735	0.0553	20	2.08	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2460	16.35	0.1000	16.02	0.3356	0.1257	85	0.99	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2461	15.90	0 Range	16.02	0.3356	0.1257	85	-0.35	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2462	16.00	0.2000	16.02	0.3356	0.1257	85	-0.05	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2463	16.05	0.3000	16.02	0.3356	0.1257	85	0.10	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2469	11.89	0.0200	11.57	0.2972	0.0794	55	1.07	1%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
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002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2469	15.77	0.0600	16.02	0.3356	0.1257	85	-0.73	1%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2469	1.465	0.0300	1.639	0.1829	0.0464	19	-0.95	5%	0
005.00	Ash, 2h @ 600°C (%)	2469	5.635	0.0100	5.803	0.1018	0.0807	56	-1.65	1%	0
019.44	Calcium, ICP, Dry ash (%)	2469	0.0700	0 Range	0.0769	0.0122	0.0100	38	-0.57	4%	0
022.44	Copper, ICP, Dry ash (ppm)	2469	6.815	0.2300	7.584	1.655	0.7147	37	-0.46	5%	0
027.44	Magnesium, ICP, Dry ash (%)	2469	0.4500	0.0100	0.4351	0.0832	0.0109	37	0.18	2%	0
028.44	Manganese, ICP, Dry ash (ppm)	2469	129.4	4.010	137.0	6.097	3.178	37	-1.25	3%	0
031.44	Phosphorus, ICP, Dry ash (%)	2469	1.165	0.0300	1.251	0.0560	0.0321	39	-1.54	3%	0
032.44	Potassium, ICP, Dry ash (%)	2469	1.280	0.0400	1.358	0.0541	0.0310	37	-1.45	3%	0
035.41	Sodium, ICP, Dry ash (%)	2469	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2469	65.60	3.040	71.56	3.125	1.473	34	-1.91	4%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2470	11.93	0.0400	11.57	0.2972	0.0794	55	1.20	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2470	15.81	0.0400	16.02	0.3356	0.1257	85	-0.61	1%	0
005.00	Ash, 2h @ 600°C (%)	2470	5.985	0.2500	5.803	0.1018	0.0807	56	1.79	2%	0
019.44	Calcium, ICP, Dry ash (%)	2470	0.0700	0 Range	0.0769	0.0122	0.0100	38	-0.57	4%	0
022.44	Copper, ICP, Dry ash (ppm)	2470	5.535	0.7300	7.584	1.655	0.7147	37	-1.24	14%	0
027.44	Magnesium, ICP, Dry ash (%)	2470	0.4720	0.0400	0.4351	0.0832	0.0109	37	0.44	4%	0
028.44	Manganese, ICP, Dry ash (ppm)	2470	133.0	4.820	137.0	6.097	3.178	37	-0.65	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2470	1.215	0.0900	1.251	0.0560	0.0321	39	-0.65	1%	0
032.44	Potassium, ICP, Dry ash (%)	2470	1.315	0.0900	1.358	0.0541	0.0310	37	-0.80	2%	0
035.41	Sodium, ICP, Dry ash (%)	2470	0 Value		0.0100	0.0000		33			4
037.44	Zinc, ICP, Dry ash (ppm)	2470	68.93	4.080	71.56	3.125	1.473	34	-0.84	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2472	11.87	0.0800	11.57	0.2972	0.0794	55	1.00	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2472	16.00	0.1400	16.02	0.3356	0.1257	85	-0.05	0%	0
005.03	Ash, Microwave furnace (%)	2472	5.895	0.0300	5.940	0.0532	0.0300	9	-0.85	0%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2472	4.450	0.1000	4.278	0.2181	0.1303	12	0.79	2%	0
019.43	Calcium, ICP, Microwave (%)	2472	0.0830	0.0026	0.0794	0.0042	0.0042	21	0.84	2%	0
027.43	Magnesium, ICP, Microwave (%)	2472	0.5170	0.0362	0.5042	0.0318	0.0105	21	0.40	1%	0
031.43	Phosphorus, ICP, Microwave (%)	2472	1.413	0.0788	1.324	0.0719	0.0409	20	1.23	3%	0
032.43	Potassium, ICP, Microwave (%)	2472	1.448	0.0876	1.419	0.0536	0.0329	20	0.53	1%	0
037.43	Zinc, ICP, Microwave (ppm)	2472	76.58	0.5500	72.84	5.149	3.364	21	0.72	3%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2473	11.75	0.2500	11.57	0.2972	0.0794	55	0.58	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2473	16.05	0.1600	16.02	0.3356	0.1257	85	0.10	0%	0
005.03	Ash, Microwave furnace (%)	2473	5.980	0.1600	5.940	0.0532	0.0300	9	0.75	0%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2473	4.590	0.0400	4.278	0.2181	0.1303	12	1.43	4%	0
019.43	Calcium, ICP, Microwave (%)	2473	0.0823	0.0044	0.0794	0.0042	0.0042	21	0.68	2%	0
022.43	Copper, ICP, Microwave (ppm)	2473	10.30	0.2000	10.21	0.3821	0.3959	19	0.22	0%	0
027.43	Magnesium, ICP, Microwave (%)	2473	0.5092	0.0011	0.5042	0.0318	0.0105	21	0.16	0%	0
028.43	Manganese, ICP, Microwave (ppm)	2473	143.4	5.300	140.3	5.246	4.746	20	0.57	1%	0
031.43	Phosphorus, ICP, Microwave (%)	2473	1.373	0.0014	1.324	0.0719	0.0409	20	0.68	2%	0
032.43	Potassium, ICP, Microwave (%)	2473	1.421	0.0057	1.419	0.0536	0.0329	20	0.03	0%	0
037.43	Zinc, ICP, Microwave (ppm)	2473	75.20	1.200	72.84	5.149	3.364	21	0.46	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2474	11.37	0.1600	11.57	0.2972	0.0794	55	-0.68	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2474	16.54	0.1000	16.02	0.3356	0.1257	85	1.56	2%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
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003.10	Fat, Crude, Randall, Pet Ether (%)	2474	1.805	0.0300	1.639	0.1829	0.0464	19	0.91	5%	0
005.00	Ash, 2h @ 600°C (%)	2474	5.760	0.0200	5.803	0.1018	0.0807	56	-0.42	0%	0
019.44	Calcium, ICP, Dry ash (%)	2474	0.0850	0.0100	0.0769	0.0122	0.0100	38	0.66	5%	0
022.44	Copper, ICP, Dry ash (ppm)	2474	7.515	2.110	7.584	1.655	0.7147	37	-0.04	0%	0
027.44	Magnesium, ICP, Dry ash (%)	2474	0.5170	0.0660	0.4351	0.0832	0.0109	37	0.98	9%	0
028.44	Manganese, ICP, Dry ash (ppm)	2474	144.7	18.85	137.0	6.097	3.178	37	1.26	3%	0
031.44	Phosphorus, ICP, Dry ash (%)	2474	1.310	0.1800	1.251	0.0560	0.0321	39	1.05	2%	0
032.44	Potassium, ICP, Dry ash (%)	2474	1.415	0.1500	1.358	0.0541	0.0310	37	1.05	2%	0
035.41	Sodium, ICP, Dry ash (%)	2474	0 Value		0.0100	0.0000		33			4
037.44	Zinc, ICP, Dry ash (ppm)	2474	74.66	10.35	71.56	3.125	1.473	34	0.99	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2476	16.45	0.2280	16.02	0.3356	0.1257	85	1.28	1%	0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	2476	1.562	0.0060	1.489	0.2251	0.0392	10	0.32	2%	0
005.00	Ash, 2h @ 600°C (%)	2476	6.105	0.1050	5.803	0.1018	0.0807	56	2.96	3%	0
010.99	Moisture, Miscellaneous (%)	2476	12.64	0.0730	11.80	0.5411	0.0548	5			0
019.43	Calcium, ICP, Microwave (%)	2476	0.0825	0.0010	0.0794	0.0042	0.0042	21	0.72	2%	0
022.43	Copper, ICP, Microwave (ppm)	2476	10.21	0.9290	10.21	0.3821	0.3959	19	-0.02	0%	0
025.43	Iron, ICP, Microwave (ppm)	2476	124.4	1.100	118.7	6.688	2.009	10	0.85	2%	0
027.43	Magnesium, ICP, Microwave (%)	2476	0.5120	0.0100	0.5042	0.0318	0.0105	21	0.25	1%	0
028.43	Manganese, ICP, Microwave (ppm)	2476	139.6	1.200	140.3	5.246	4.746	20	-0.14	0%	0
031.43	Phosphorus, ICP, Microwave (%)	2476	1.369	0.0220	1.324	0.0719	0.0409	20	0.62	2%	0
032.43	Potassium, ICP, Microwave (%)	2476	1.457	0.0070	1.419	0.0536	0.0329	20	0.69	1%	0
034.43	Selenium, Total (Se), ICP, Microwave (ppm)	2476	0 Value					0			4
037.43	Zinc, ICP, Microwave (ppm)	2476	78.82	5.470	72.84	5.149	3.364	21	1.16	4%	0
038.43	Molybdenum, ICP, Microwave (ppm)	2476	0.3950	0.1500	1.090	0.5515	0.1139	4			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2477	11.86	0.0600	11.57	0.2972	0.0794	55	0.96	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2477	15.90	0.2500	16.02	0.3356	0.1257	85	-0.36	0%	0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	2477	1.365	0.0100	1.489	0.2251	0.0392	10	-0.55	4%	0
005.00	Ash, 2h @ 600°C (%)	2477	5.915	0.0300	5.803	0.1018	0.0807	56	1.10	1%	0
019.44	Calcium, ICP, Dry ash (%)	2477	0.0800	0 Range	0.0769	0.0122	0.0100	38	0.25	2%	0
022.44	Copper, ICP, Dry ash (ppm)	2477	9.795	0.4100	7.584	1.655	0.7147	37	1.34	15%	0
027.44	Magnesium, ICP, Dry ash (%)	2477	0.4600	0.0200	0.4351	0.0832	0.0109	37	0.30	3%	0
028.44	Manganese, ICP, Dry ash (ppm)	2477	137.4	0.3500	137.0	6.097	3.178	37	0.07	0%	0
031.44	Phosphorus, ICP, Dry ash (%)	2477	1.260	0.0600	1.251	0.0560	0.0321	39	0.16	0%	0
032.44	Potassium, ICP, Dry ash (%)	2477	1.330	0.0600	1.358	0.0541	0.0310	37	-0.52	1%	0
035.41	Sodium, ICP, Dry ash (%)	2477	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2477	71.52	1.070	71.56	3.125	1.473	34	-0.02	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2478	11.81	0 Range	11.57	0.2972	0.0794	55	0.80	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2478	16.07	0.0630	16.02	0.3356	0.1257	85	0.17	0%	0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	2478	1.380	0.0200	1.489	0.2251	0.0392	10	-0.49	4%	0
005.00	Ash, 2h @ 600°C (%)	2478	5.750	0.0400	5.803	0.1018	0.0807	56	-0.52	0%	0
019.44	Calcium, ICP, Dry ash (%)	2478	0.0800	0 Range	0.0769	0.0122	0.0100	38	0.25	2%	0
022.44	Copper, ICP, Dry ash (ppm)	2478	9.535	0.1100	7.584	1.655	0.7147	37	1.18	13%	0
027.44	Magnesium, ICP, Dry ash (%)	2478	0.4400	0.0020	0.4351	0.0832	0.0109	37	0.06	1%	0
028.44	Manganese, ICP, Dry ash (ppm)	2478	135.9	0.0500	137.0	6.097	3.178	37	-0.18	0%	0

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031.44	Phosphorus, ICP, Dry ash (%)	2478	1.215	0.0300	1.251	0.0560	0.0321	39	-0.65	1%	0
032.44	Potassium, ICP, Dry ash (%)	2478	1.280	0.0200	1.358	0.0541	0.0310	37	-1.45	3%	0
035.41	Sodium, ICP, Dry ash (%)	2478	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2478	72.02	0.3500	71.56	3.125	1.473	34	0.14	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2479	11.56	0.0100	11.57	0.2972	0.0794	55	-0.06	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2479	15.94	0.1010	16.02	0.3356	0.1257	85	-0.21	0%	0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	2479	1.300	0.1400	1.489	0.2251	0.0392	10	-0.84	6%	0
005.00	Ash, 2h @ 600°C (%)	2479	5.740	0.0400	5.803	0.1018	0.0807	56	-0.62	1%	0
019.44	Calcium, ICP, Dry ash (%)	2479	0.0800	0 Range	0.0769	0.0122	0.0100	38	0.25	2%	0
022.44	Copper, ICP, Dry ash (ppm)	2479	9.855	0.3700	7.584	1.655	0.7147	37	1.37	15%	0
027.44	Magnesium, ICP, Dry ash (%)	2479	0.4615	0.0130	0.4351	0.0832	0.0109	37	0.32	3%	0
028.44	Manganese, ICP, Dry ash (ppm)	2479	139.6	2.540	137.0	6.097	3.178	37	0.43	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2479	1.275	0.0500	1.251	0.0560	0.0321	39	0.42	1%	0
032.44	Potassium, ICP, Dry ash (%)	2479	1.360	0.0600	1.358	0.0541	0.0310	37	0.03	0%	0
035.41	Sodium, ICP, Dry ash (%)	2479	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2479	74.85	1.240	71.56	3.125	1.473	34	1.05	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2480	11.70	0.0100	11.57	0.2972	0.0794	55	0.41	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2480	15.84	0.0370	16.02	0.3356	0.1257	85	-0.52	1%	0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	2480	1.285	0.0300	1.489	0.2251	0.0392	10	-0.91	7%	0
005.00	Ash, 2h @ 600°C (%)	2480	5.625	0.0500	5.803	0.1018	0.0807	56	-1.75	2%	0
019.44	Calcium, ICP, Dry ash (%)	2480	0.0790	0.0020	0.0769	0.0122	0.0100	38	0.17	1%	0
022.44	Copper, ICP, Dry ash (ppm)	2480	9.989	0.3260	7.584	1.655	0.7147	37	1.45	16%	0
027.44	Magnesium, ICP, Dry ash (%)	2480	0.4590	0.0060	0.4351	0.0832	0.0109	37	0.29	3%	0
028.44	Manganese, ICP, Dry ash (ppm)	2480	136.4	0.4680	137.0	6.097	3.178	37	-0.10	0%	0
031.44	Phosphorus, ICP, Dry ash (%)	2480	1.257	0.0150	1.251	0.0560	0.0321	39	0.09	0%	0
032.44	Potassium, ICP, Dry ash (%)	2480	1.346	0.0210	1.358	0.0541	0.0310	37	-0.24	0%	0
035.41	Sodium, ICP, Dry ash (%)	2480	0.0090	0 Range	0.0100	0.0000		33	#####	5%	0
037.44	Zinc, ICP, Dry ash (ppm)	2480	70.96	0.3440	71.56	3.125	1.473	34	-0.19	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2486	15.88	0.1400	16.02	0.3356	0.1257	85	-0.41	0%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2486	1.475	0.0700	1.548	0.1532	0.0819	18	-0.48	2%	0
004.07	Fiber, Crude, ANKOM (%)	2486	8.480	0.1600	9.285	0.8652	0.3634	23	-0.93	4%	0
005.00	Ash, 2h @ 600°C (%)	2486	6.115	0.0500	5.803	0.1018	0.0807	56	3.07	3%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2486	11.98	0.0100	12.01	0.3735	0.0553	20	-0.09	0%	0
004.07	Fiber, Crude, ANKOM (%)	2487	9.400	0 Range	9.285	0.8652	0.3634	23	0.13	1%	0
010.99	Moisture, Miscellaneous (%)	2487	11.16	0.0900	11.80	0.5411	0.0548	5			0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2487	3.595	0.3900	4.278	0.2181	0.1303	12	-3.13	8%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2490	16.14	0.1400	16.02	0.3356	0.1257	85	0.37	0%	0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2490	1.645	0.1900	1.548	0.1532	0.0819	18	0.63	3%	0
004.00	Fiber, Crude, Asbestos Free (%)	2490	11.45	0.1100	9.803	1.582	0.0974	7	1.04	8%	0
005.00	Ash, 2h @ 600°C (%)	2490	5.880	0.0600	5.803	0.1018	0.0807	56	0.76	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2490	11.91	0.0400	12.01	0.3735	0.0553	20	-0.26	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2491	16.19	0.0900	16.02	0.3356	0.1257	85	0.50	1%	0
004.00	Fiber, Crude, Asbestos Free (%)	2491	11.40	0.0200	9.803	1.582	0.0974	7	1.01	8%	0
005.00	Ash, 2h @ 600°C (%)	2491	5.810	0.0800	5.803	0.1018	0.0807	56	0.07	0%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
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011.01	Loss on Drying, HT, 135°C 2hr (%)	2491	12.14	0.0400	12.01	0.3735	0.0553	20	0.36	1%	0
013.02	Fat, Pretreat, Mojonner, Bak Ext, Acid hydrolysis	2491	4.545	0.5500	3.734	1.562	0.4196	14	0.52	11%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2495	11.55	0.0300	11.57	0.2972	0.0794	55	-0.10	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2495	15.93	0.0200	16.02	0.3356	0.1257	85	-0.27	0%	0
003.06	Fat, Crude, Pet Ether (%)	2495	1.150	0.1800				3			0
005.05	Ash, 3h @ 550°C (%)	2495	5.775	0.2500	5.879	0.1219	0.1191	13	-0.85	1%	0
019.43	Calcium, ICP, Microwave (%)	2495	0.0810	0.0020	0.0794	0.0042	0.0042	21	0.37	1%	0
022.43	Copper, ICP, Microwave (ppm)	2495	9.630	0.1200	10.21	0.3821	0.3959	19	-1.53	3%	0
027.43	Magnesium, ICP, Microwave (%)	2495	0.4470	0.0140	0.5042	0.0318	0.0105	21	-1.80	6%	0
028.43	Manganese, ICP, Microwave (ppm)	2495	138.5	2.560	140.3	5.246	4.746	20	-0.36	1%	0
031.43	Phosphorus, ICP, Microwave (%)	2495	1.246	0.0200	1.324	0.0719	0.0409	20	-1.09	3%	0
032.43	Potassium, ICP, Microwave (%)	2495	1.305	0.0500	1.419	0.0536	0.0329	20	-2.13	4%	0
035.43	Sodium, ICP, Microwave (%)	2495	0.0105	0.0010	0.0062	0.0037	0.0006	5			0
037.43	Zinc, ICP, Microwave (ppm)	2495	73.50	0.2100	72.84	5.149	3.364	21	0.13	0%	0
002.05	Protein, Crude, Copper, Boric Acid (%)	2500	15.32	0.1880				3			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2500	16.62	0.4836	16.02	0.3356	0.1257	85	1.81	2%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2500	1.786	0.0013	1.639	0.1829	0.0464	19	0.80	4%	0
008.02	Fiber, Acid Detergent, Crucible (%)	2500	10.89	0.0380	11.30	0.6265	0.0262	4			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2502	11.87	0.0300	11.57	0.2972	0.0794	55	0.98	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2502	15.92	0.0200	16.02	0.3356	0.1257	85	-0.29	0%	0
005.03	Ash, Microwave furnace (%)	2502	5.975	0.0300	5.940	0.0532	0.0300	9	0.66	0%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2502	4.390	0.1600	4.278	0.2181	0.1303	12	0.51	1%	0
019.43	Calcium, ICP, Microwave (%)	2502	0.0735	0.0110	0.0794	0.0042	0.0042	21	-1.41	4%	0
022.43	Copper, ICP, Microwave (ppm)	2502	10.30	0.6000	10.21	0.3821	0.3959	19	0.22	0%	0
027.43	Magnesium, ICP, Microwave (%)	2502	0.5370	0.0040	0.5042	0.0318	0.0105	21	1.03	3%	0
028.43	Manganese, ICP, Microwave (ppm)	2502	142.7	7.650	140.3	5.246	4.746	20	0.44	1%	0
031.43	Phosphorus, ICP, Microwave (%)	2502	1.375	0.0700	1.324	0.0719	0.0409	20	0.71	2%	0
032.43	Potassium, ICP, Microwave (%)	2502	1.455	0.0500	1.419	0.0536	0.0329	20	0.66	1%	0
037.43	Zinc, ICP, Microwave (ppm)	2502	75.90	4.900	72.84	5.149	3.364	21	0.59	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2503	11.66	0.2200	11.57	0.2972	0.0794	55	0.29	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2503	15.84	0.0600	16.02	0.3356	0.1257	85	-0.52	1%	0
005.00	Ash, 2h @ 600°C (%)	2503	5.985	0.0700	5.803	0.1018	0.0807	56	1.79	2%	0
019.44	Calcium, ICP, Dry ash (%)	2503	0.0800	0 Range	0.0769	0.0122	0.0100	38	0.25	2%	0
022.44	Copper, ICP, Dry ash (ppm)	2503	6.660	1.520	7.584	1.655	0.7147	37	-0.56	6%	0
027.44	Magnesium, ICP, Dry ash (%)	2503	0.4990	0.0160	0.4351	0.0832	0.0109	37	0.77	7%	0
028.44	Manganese, ICP, Dry ash (ppm)	2503	139.4	3.060	137.0	6.097	3.178	37	0.39	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2503	1.285	0.0300	1.251	0.0560	0.0321	39	0.60	1%	0
032.44	Potassium, ICP, Dry ash (%)	2503	1.410	0.0600	1.358	0.0541	0.0310	37	0.95	2%	0
035.41	Sodium, ICP, Dry ash (%)	2503	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2503	70.78	0.9000	71.56	3.125	1.473	34	-0.25	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2504	11.72	0.1200	11.57	0.2972	0.0794	55	0.49	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2504	15.82	0.0100	16.02	0.3356	0.1257	85	-0.60	1%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2504	1.430	0.0600	1.639	0.1829	0.0464	19	-1.14	6%	0
005.00	Ash, 2h @ 600°C (%)	2504	5.950	0.0400	5.803	0.1018	0.0807	56	1.45	1%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
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019.44	Calcium, ICP, Dry ash (%)	2504	0.0750	0.0100	0.0769	0.0122	0.0100	38	-0.16	1%	0
022.44	Copper, ICP, Dry ash (ppm)	2504	7.755	0.8700	7.584	1.655	0.7147	37	0.10	1%	0
027.44	Magnesium, ICP, Dry ash (%)	2504	0.4800	0.0080	0.4351	0.0832	0.0109	37	0.54	5%	0
028.44	Manganese, ICP, Dry ash (ppm)	2504	132.5	2.030	137.0	6.097	3.178	37	-0.73	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	2504	1.245	0.0100	1.251	0.0560	0.0321	39	-0.11	0%	0
032.44	Potassium, ICP, Dry ash (%)	2504	1.350	0.0200	1.358	0.0541	0.0310	37	-0.15	0%	0
035.41	Sodium, ICP, Dry ash (%)	2504	0.0100	0 Range	0.0100	0.0000		33	0.00	0%	0
037.44	Zinc, ICP, Dry ash (ppm)	2504	68.61	0.7300	71.56	3.125	1.473	34	-0.95	2%	0
Note 1: Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or between -2 and -3 (warning) and Green = Z <= 2 and >= -2 (OK at 95%).											
Note 2: Data Not Used Flags: 1=Rejected for duplicates too far apart, 2=Rejected as extreme outlier, 5=Reporting limit (<), 4=Zeros submitted as values and 3=Statistical problem. Flag 0 indicates data used in calculations.											
Note 3: *Robust statistics not used if < 6 labs reporting, in the case of 4 or 5 labs reporting Means and SD's may be reported based on Raw Data with obvious											