



**AAFCO**  
Association of American Feed Control Officials



**Animal Feed Scheme**

**Cattle Mineral**

**Test Material Code # 202398**

**Method Proficiency Testing Report**

**# Labs Reporting: 151**

**# Methods Reported 367**

**Issue Date : 09/30/2023**

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0504	2.305	0.0300				3			0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0169	2.400	0.0200				3			0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0407	2.513	0.0234				3			0
001.03	Loss on Drying, Low temp. methods (%)	0843	2.735	0.2700				2			0
001.03	Loss on Drying, Low temp. methods (%)	0619	3.085	0.0300				2			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0345	1.370	0.0200	2.418	0.3384	0.1180	33	-3.10	22%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0034	1.995	0.0500	2.418	0.3384	0.1180	33	-1.25	9%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0366	2.000	0.2000	2.418	0.3384	0.1180	33	-1.23	9%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0353	2.020	0.0400	2.418	0.3384	0.1180	33	-1.18	8%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0098	2.040	0.2200	2.418	0.3384	0.1180	33	-1.12	8%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0297	2.060	0.5600	2.418	0.3384	0.1180	33	-1.06	7%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0010	2.100	0.0000	2.418	0.3384	0.1180	33	-0.94	7%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0226	2.125	0.0100	2.418	0.3384	0.1180	33	-0.86	6%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0512	2.206	0.0400	2.418	0.3384	0.1180	33	-0.63	4%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0066	2.240	0.0800	2.418	0.3384	0.1180	33	-0.52	4%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0596	2.275	0.2100	2.418	0.3384	0.1180	33	-0.42	3%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0033	2.285	0.0700	2.418	0.3384	0.1180	33	-0.39	3%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2190	2.285	0.0100	2.418	0.3384	0.1180	33	-0.39	3%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2144	2.300	0.0400	2.418	0.3384	0.1180	33	-0.35	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0038	2.305	0.0100	2.418	0.3384	0.1180	33	-0.33	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0035	2.385	0.0700	2.418	0.3384	0.1180	33	-0.10	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0505	2.400	0.1000	2.418	0.3384	0.1180	33	-0.05	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2059	2.420	0.0800	2.418	0.3384	0.1180	33	0.01	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0083	2.480	0.0600	2.418	0.3384	0.1180	33	0.18	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0413	2.485	0.1900	2.418	0.3384	0.1180	33	0.20	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2445	2.510	0.0200	2.418	0.3384	0.1180	33	0.27	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0148	2.575	0.0900	2.418	0.3384	0.1180	33	0.47	3%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0278	2.590	0.0000	2.418	0.3384	0.1180	33	0.51	4%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0590	2.620	0.4400	2.418	0.3384	0.1180	33	0.60	4%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0643	2.691	0.0010	2.418	0.3384	0.1180	33	0.81	6%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0074	2.725	0.4900	2.418	0.3384	0.1180	33	0.91	6%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0843	2.735	0.2700	2.418	0.3384	0.1180	33	0.94	7%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0872	2.750	0.1800	2.418	0.3384	0.1180	33	0.98	7%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0049	2.760	0.2400	2.418	0.3384	0.1180	33	1.01	7%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0407	2.824	0.0356	2.418	0.3384	0.1180	33	1.20	8%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2259	2.840	0.0160	2.418	0.3384	0.1180	33	1.25	9%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0682	2.920	0.0000	2.418	0.3384	0.1180	33	1.48	10%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0045	3.400	0.4000	2.418	0.3384	0.1180	33	2.90	20%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0693	2.911	1.035	2.418	0.3384	0.1180	33	1.46	10%	1
001.99	Loss on Drying, Miscellaneous (%)	0510	1.450	0.1000	2.435	0.3840	0.1138	16	-2.56	20%	0
001.99	Loss on Drying, Miscellaneous (%)	0019	1.990	0.2200	2.435	0.3840	0.1138	16	-1.16	9%	0
001.99	Loss on Drying, Miscellaneous (%)	0889	2.005	0.0700	2.435	0.3840	0.1138	16	-1.12	9%	0
001.99	Loss on Drying, Miscellaneous (%)	0560	2.145	0.1100	2.435	0.3840	0.1138	16	-0.75	6%	0
001.99	Loss on Drying, Miscellaneous (%)	0941	2.170	0.2400	2.435	0.3840	0.1138	16	-0.69	5%	0
001.99	Loss on Drying, Miscellaneous (%)	0037	2.330	0.0200	2.435	0.3840	0.1138	16	-0.27	2%	0
001.99	Loss on Drying, Miscellaneous (%)	2392	2.385	0.1700	2.435	0.3840	0.1138	16	-0.13	1%	0
001.99	Loss on Drying, Miscellaneous (%)	0676	2.425	0.0700	2.435	0.3840	0.1138	16	-0.03	0%	0
001.99	Loss on Drying, Miscellaneous (%)	2155	2.500	0.4000	2.435	0.3840	0.1138	16	0.17	1%	0
001.99	Loss on Drying, Miscellaneous (%)	0914	2.535	0.0100	2.435	0.3840	0.1138	16	0.26	2%	0
001.99	Loss on Drying, Miscellaneous (%)	2319	2.600	0.0000	2.435	0.3840	0.1138	16	0.43	3%	0
001.99	Loss on Drying, Miscellaneous (%)	0610	2.625	0.0700	2.435	0.3840	0.1138	16	0.50	4%	0
001.99	Loss on Drying, Miscellaneous (%)	2268	2.635	0.1700	2.435	0.3840	0.1138	16	0.52	4%	0
001.99	Loss on Drying, Miscellaneous (%)	0357	2.811	0.0293	2.435	0.3840	0.1138	16	0.98	8%	0
001.99	Loss on Drying, Miscellaneous (%)	0651	2.932	0.0704	2.435	0.3840	0.1138	16	1.29	10%	0
001.99	Loss on Drying, Miscellaneous (%)	0852	3.515	0.1100	2.435	0.3840	0.1138	16	2.81	22%	0
002.00	Protein, Crude, Crude (%)	2433	2.055	0.0700				1			0
002.01	Protein, Crude, Auto Kjel-Foss (%)	0164	2.565	0.2500	3.011	0.6384	0.1340	4			0
002.01	Protein, Crude, Auto Kjel-Foss (%)	0870	2.622	0.0560	3.011	0.6384	0.1340	4			0
002.01	Protein, Crude, Auto Kjel-Foss (%)	0889	2.915	0.0300	3.011	0.6384	0.1340	4			0
002.01	Protein, Crude, Auto Kjel-Foss (%)	0685	3.940	0.2000	3.011	0.6384	0.1340	4			0
002.05	Protein, Crude, Copper, Boric Acid (%)	1019	2.375	0.2500	2.465	0.0854	0.1236	4			0
002.05	Protein, Crude, Copper, Boric Acid (%)	2006	2.410	0.0600	2.465	0.0854	0.1236	4			0
002.05	Protein, Crude, Copper, Boric Acid (%)	0651	2.536	0.1673	2.465	0.0854	0.1236	4			0
002.05	Protein, Crude, Copper, Boric Acid (%)	0622	2.540	0.0170	2.465	0.0854	0.1236	4			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0953	1.498	0.3080	2.401	0.2491	0.1230	38	-3.63	19%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0692	1.750	0.5000	2.401	0.2491	0.1230	38	-2.61	14%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0880	1.850	0.0400	2.401	0.2491	0.1230	38	-2.21	11%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0956	2.100	0.0000	2.401	0.2491	0.1230	38	-1.21	6%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0682	2.130	0.0000	2.401	0.2491	0.1230	38	-1.09	6%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0539	2.145	0.1500	2.401	0.2491	0.1230	38	-1.03	5%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0914	2.200	0.0400	2.401	0.2491	0.1230	38	-0.81	4%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2302	2.255	0.1300	2.401	0.2491	0.1230	38	-0.59	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2184	2.265	0.0700	2.401	0.2491	0.1230	38	-0.55	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0870	2.275	0.0018	2.401	0.2491	0.1230	38	-0.51	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0164	2.280	0.0600	2.401	0.2491	0.1230	38	-0.49	3%	0

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			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0693	2.288	0.0000	2.401	0.2491	0.1230	38	-0.45	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0083	2.325	0.0700	2.401	0.2491	0.1230	38	-0.31	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0297	2.325	0.0900	2.401	0.2491	0.1230	38	-0.31	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0872	2.329	0.0100	2.401	0.2491	0.1230	38	-0.29	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2213	2.340	0.1600	2.401	0.2491	0.1230	38	-0.25	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2059	2.345	0.0094	2.401	0.2491	0.1230	38	-0.22	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0202	2.350	0.0200	2.401	0.2491	0.1230	38	-0.21	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0366	2.350	0.1000	2.401	0.2491	0.1230	38	-0.21	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2129	2.352	0.0291	2.401	0.2491	0.1230	38	-0.20	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0504	2.370	0.0400	2.401	0.2491	0.1230	38	-0.13	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0033	2.380	0.2000	2.401	0.2491	0.1230	38	-0.09	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0123	2.405	0.0700	2.401	0.2491	0.1230	38	0.02	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0358	2.410	0.1200	2.401	0.2491	0.1230	38	0.04	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2349	2.450	0.1000	2.401	0.2491	0.1230	38	0.20	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0049	2.465	0.1500	2.401	0.2491	0.1230	38	0.26	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0510	2.500	0.0000	2.401	0.2491	0.1230	38	0.40	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0407	2.549	0.2120	2.401	0.2491	0.1230	38	0.59	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2076	2.599	0.0060	2.401	0.2491	0.1230	38	0.79	4%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0037	2.610	0.0400	2.401	0.2491	0.1230	38	0.84	4%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0098	2.615	0.4100	2.401	0.2491	0.1230	38	0.86	4%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0026	2.621	0.0375	2.401	0.2491	0.1230	38	0.88	5%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0541	2.660	0.3600	2.401	0.2491	0.1230	38	1.04	5%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0574	2.775	0.0100	2.401	0.2491	0.1230	38	1.50	8%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0148	2.855	0.0300	2.401	0.2491	0.1230	38	1.82	9%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0843	2.980	0.6600	2.401	0.2491	0.1230	38	2.32	12%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0598	3.085	0.3700	2.401	0.2491	0.1230	38	2.75	14%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2268	4.350	0.3200	2.401	0.2491	0.1230	38	7.82	41%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0964	40.34	0.7580	2.401	0.2491	0.1230	38	>100	790%	2
002.08	Protein, Crude, Cu/Ti (%)	0098	2.570	0.0400				1			0
002.08	Protein, Crude, Cu/Ti (%)	0563		< 3				1			5
002.11	Protein, Crude, NIR (%)	0889	7.720	0.2000				2			0
002.11	Protein, Crude, NIR (%)	0852	13.16	0.2300				2			0
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirec	0563	2.652	0.0487				3			0
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirec	0504	2.670	0.0000				3			0
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirec	0164	2.680	0.0400				3			0
003.06	Fat, Crude, Pet Ether (%)	0682	2.800	0.0000				1			0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	0098	2.525	0.2700				3			0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	0685	2.650	0.0600				3			0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	0964	3.715	0.2100				3			0
003.10	Fat, Crude, Randall, Pet Ether (%)	2184	2.040	0.2400	2.355	0.2308	0.1608	9	-1.36	7%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0622	2.156	0.0026	2.355	0.2308	0.1608	9	-0.86	4%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0098	2.235	0.0300	2.355	0.2308	0.1608	9	-0.52	3%	0

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			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
003.10	Fat, Crude, Randall, Pet Ether (%)	0693	2.265	0.2810	2.355	0.2308	0.1608	9	-0.39	2%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0541	2.325	0.3300	2.355	0.2308	0.1608	9	-0.13	1%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0870	2.424	0.0433	2.355	0.2308	0.1608	9	0.30	1%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0889	2.525	0.0300	2.355	0.2308	0.1608	9	0.74	4%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0148	2.575	0.1900	2.355	0.2308	0.1608	9	0.95	5%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0366	2.650	0.3000	2.355	0.2308	0.1608	9	1.28	6%	0
003.11	Fat, Crude, NIR (%)	0889	5.445	0.0500				2			0
003.11	Fat, Crude, NIR (%)	0852	7.710	0.5600				2			0
003.13	Fat, Crude, Randall, Hexane Ext. (%)	2006	2.450	0.0200				3			0
003.13	Fat, Crude, Randall, Hexane Ext. (%)	2246	2.455	0.0500				3			0
003.13	Fat, Crude, Randall, Hexane Ext. (%)	0870	2.656	0.0404				3			0
003.13	Fat, Crude, Randall, Hexane Ext. (%)	0098	2.380	0.5000				3			1
003.14	Fat, Crude, Ankom (%)	0574	2.325	0.0100	2.600	0.2002	0.0933	16	-1.37	5%	0
003.14	Fat, Crude, Ankom (%)	2433	2.391	0.1715	2.600	0.2002	0.0933	16	-1.04	4%	0
003.14	Fat, Crude, Ankom (%)	0598	2.430	0.0400	2.600	0.2002	0.0933	16	-0.85	3%	0
003.14	Fat, Crude, Ankom (%)	0202	2.465	0.0700	2.600	0.2002	0.0933	16	-0.67	3%	0
003.14	Fat, Crude, Ankom (%)	0037	2.485	0.0100	2.600	0.2002	0.0933	16	-0.57	2%	0
003.14	Fat, Crude, Ankom (%)	0033	2.500	0.0400	2.600	0.2002	0.0933	16	-0.50	2%	0
003.14	Fat, Crude, Ankom (%)	0358	2.525	0.1300	2.600	0.2002	0.0933	16	-0.37	1%	0
003.14	Fat, Crude, Ankom (%)	2076	2.555	0.0100	2.600	0.2002	0.0933	16	-0.22	1%	0
003.14	Fat, Crude, Ankom (%)	0563	2.591	0.0182	2.600	0.2002	0.0933	16	-0.04	0%	0
003.14	Fat, Crude, Ankom (%)	0148	2.615	0.2900	2.600	0.2002	0.0933	16	0.08	0%	0
003.14	Fat, Crude, Ankom (%)	0651	2.635	0.0410	2.600	0.2002	0.0933	16	0.18	1%	0
003.14	Fat, Crude, Ankom (%)	0407	2.680	0.3462	2.600	0.2002	0.0933	16	0.40	2%	0
003.14	Fat, Crude, Ankom (%)	0049	2.760	0.0600	2.600	0.2002	0.0933	16	0.80	3%	0
003.14	Fat, Crude, Ankom (%)	2302	2.850	0.0400	2.600	0.2002	0.0933	16	1.25	5%	0
003.14	Fat, Crude, Ankom (%)	0692	2.890	0.2600	2.600	0.2002	0.0933	16	1.45	6%	0
003.14	Fat, Crude, Ankom (%)	0682	3.090	0.0000	2.600	0.2002	0.0933	16	2.45	9%	0
003.99	Fat, Crude, Miscellaneous (%)	0880	1.050	1.100				2			0
003.99	Fat, Crude, Miscellaneous (%)	1019	6.410	0.9600				2			0
004.00	Fiber, Crude, Asbestos Free (%)	0164	2.700	0.2000				3			0
004.00	Fiber, Crude, Asbestos Free (%)	0169	2.980	0.0000				3			0
004.00	Fiber, Crude, Asbestos Free (%)	2076	4.267	0.4260				3			0
004.06	Fiber, Crude, Fibertec (%)	0098	2.650	0.3800	2.808	0.1638	0.2100	4			0
004.06	Fiber, Crude, Fibertec (%)	2006	2.690	0.2000	2.808	0.1638	0.2100	4			0
004.06	Fiber, Crude, Fibertec (%)	2349	2.900	0.2000	2.808	0.1638	0.2100	4			0
004.06	Fiber, Crude, Fibertec (%)	0685	2.990	0.0600	2.808	0.1638	0.2100	4			0
004.06	Fiber, Crude, Fibertec (%)	0964	11.79	0.5000	2.808	0.1638	0.2100	4			2
004.07	Fiber, Crude, ANKOM (%)	0366	1.750	0.1000	3.818	1.165	0.3586	12	-1.77	27%	0
004.07	Fiber, Crude, ANKOM (%)	0692	2.900	0.2000	3.818	1.165	0.3586	12	-0.79	12%	0
004.07	Fiber, Crude, ANKOM (%)	0870	3.058	0.0162	3.818	1.165	0.3586	12	-0.65	10%	0
004.07	Fiber, Crude, ANKOM (%)	0504	3.230	0.1000	3.818	1.165	0.3586	12	-0.50	8%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
004.07	Fiber, Crude, ANKOM (%)	0407	3.384	0.5283	3.818	1.165	0.3586	12	-0.37	6%	0
004.07	Fiber, Crude, ANKOM (%)	0098	3.445	0.6500	3.818	1.165	0.3586	12	-0.32	5%	0
004.07	Fiber, Crude, ANKOM (%)	2302	3.530	0.8400	3.818	1.165	0.3586	12	-0.25	4%	0
004.07	Fiber, Crude, ANKOM (%)	0622	4.304	0.5121	3.818	1.165	0.3586	12	0.42	6%	0
004.07	Fiber, Crude, ANKOM (%)	0682	4.400	0.0000	3.818	1.165	0.3586	12	0.50	8%	0
004.07	Fiber, Crude, ANKOM (%)	0914	4.700	0.6000	3.818	1.165	0.3586	12	0.76	12%	0
004.07	Fiber, Crude, ANKOM (%)	0598	5.225	0.3100	3.818	1.165	0.3586	12	1.21	18%	0
004.07	Fiber, Crude, ANKOM (%)	2433	5.638	0.0997	3.818	1.165	0.3586	12	1.56	24%	0
004.07	Fiber, Crude, ANKOM (%)	0889	0.0000	0.0000	3.818	1.165	0.3586	12			4
004.11	Fiber, Crude, NIR (%)	0889	7.810	0.0600				2			0
004.11	Fiber, Crude, NIR (%)	0852	20.72	3.890				2			0
005.00	Ash, 2h @ 600°C (%)	0169	66.26	0.3800	73.35	0.9630	0.3789	73	-7.36	5%	0
005.00	Ash, 2h @ 600°C (%)	2184	66.83	0.5600	73.35	0.9630	0.3789	73	-6.77	4%	0
005.00	Ash, 2h @ 600°C (%)	2445	70.06	0.1100	73.35	0.9630	0.3789	73	-3.42	2%	0
005.00	Ash, 2h @ 600°C (%)	0049	70.71	0.3700	73.35	0.9630	0.3789	73	-2.74	2%	0
005.00	Ash, 2h @ 600°C (%)	2349	70.75	0.1000	73.35	0.9630	0.3789	73	-2.70	2%	0
005.00	Ash, 2h @ 600°C (%)	0574	71.16	0.1500	73.35	0.9630	0.3789	73	-2.28	1%	0
005.00	Ash, 2h @ 600°C (%)	0674	71.39	0.0000	73.35	0.9630	0.3789	73	-2.03	1%	0
005.00	Ash, 2h @ 600°C (%)	0598	71.54	0.0300	73.35	0.9630	0.3789	73	-1.88	1%	0
005.00	Ash, 2h @ 600°C (%)	2359	71.75	0.7000	73.35	0.9630	0.3789	73	-1.66	1%	0
005.00	Ash, 2h @ 600°C (%)	2397	71.92	0.2300	73.35	0.9630	0.3789	73	-1.49	1%	0
005.00	Ash, 2h @ 600°C (%)	2199	72.15	0.9000	73.35	0.9630	0.3789	73	-1.24	1%	0
005.00	Ash, 2h @ 600°C (%)	0651	72.15	1.081	73.35	0.9630	0.3789	73	-1.24	1%	0
005.00	Ash, 2h @ 600°C (%)	0852	72.28	3.250	73.35	0.9630	0.3789	73	-1.11	1%	0
005.00	Ash, 2h @ 600°C (%)	0956	72.40	0.2000	73.35	0.9630	0.3789	73	-0.98	1%	0
005.00	Ash, 2h @ 600°C (%)	0953	72.45	0.7400	73.35	0.9630	0.3789	73	-0.93	1%	0
005.00	Ash, 2h @ 600°C (%)	0622	72.79	0.0091	73.35	0.9630	0.3789	73	-0.58	0%	0
005.00	Ash, 2h @ 600°C (%)	2302	72.82	0.4000	73.35	0.9630	0.3789	73	-0.55	0%	0
005.00	Ash, 2h @ 600°C (%)	2193	72.84	0.3500	73.35	0.9630	0.3789	73	-0.53	0%	0
005.00	Ash, 2h @ 600°C (%)	0038	72.85	0.5000	73.35	0.9630	0.3789	73	-0.52	0%	0
005.00	Ash, 2h @ 600°C (%)	0004	72.88	1.080	73.35	0.9630	0.3789	73	-0.49	0%	0
005.00	Ash, 2h @ 600°C (%)	2006	72.97	0.1900	73.35	0.9630	0.3789	73	-0.40	0%	0
005.00	Ash, 2h @ 600°C (%)	0646	73.05	0.0900	73.35	0.9630	0.3789	73	-0.31	0%	0
005.00	Ash, 2h @ 600°C (%)	2434	73.11	0.0000	73.35	0.9630	0.3789	73	-0.25	0%	0
005.00	Ash, 2h @ 600°C (%)	0035	73.14	0.6300	73.35	0.9630	0.3789	73	-0.22	0%	0
005.00	Ash, 2h @ 600°C (%)	0589	73.15	0.9100	73.35	0.9630	0.3789	73	-0.21	0%	0
005.00	Ash, 2h @ 600°C (%)	0366	73.15	0.1000	73.35	0.9630	0.3789	73	-0.21	0%	0
005.00	Ash, 2h @ 600°C (%)	2246	73.19	0.1100	73.35	0.9630	0.3789	73	-0.17	0%	0
005.00	Ash, 2h @ 600°C (%)	0358	73.21	0.2800	73.35	0.9630	0.3789	73	-0.14	0%	0
005.00	Ash, 2h @ 600°C (%)	0968	73.24	0.0500	73.35	0.9630	0.3789	73	-0.12	0%	0
005.00	Ash, 2h @ 600°C (%)	2200	73.30	0.8000	73.35	0.9630	0.3789	73	-0.05	0%	0
005.00	Ash, 2h @ 600°C (%)	0541	73.31	1.780	73.35	0.9630	0.3789	73	-0.04	0%	0



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005.00	Ash, 2h @ 600°C (%)	0504	73.32	0.0300	73.35	0.9630	0.3789	73	-0.03	0%	0
005.00	Ash, 2h @ 600°C (%)	0353	73.33	0.2700	73.35	0.9630	0.3789	73	-0.02	0%	0
005.00	Ash, 2h @ 600°C (%)	0407	73.38	1.068	73.35	0.9630	0.3789	73	0.03	0%	0
005.00	Ash, 2h @ 600°C (%)	2259	73.40	0.0310	73.35	0.9630	0.3789	73	0.06	0%	0
005.00	Ash, 2h @ 600°C (%)	0870	73.41	0.1785	73.35	0.9630	0.3789	73	0.06	0%	0
005.00	Ash, 2h @ 600°C (%)	0505	73.42	0.0200	73.35	0.9630	0.3789	73	0.08	0%	0
005.00	Ash, 2h @ 600°C (%)	0848	73.43	0.0600	73.35	0.9630	0.3789	73	0.09	0%	0
005.00	Ash, 2h @ 600°C (%)	0001	73.47	0.2250	73.35	0.9630	0.3789	73	0.12	0%	0
005.00	Ash, 2h @ 600°C (%)	0876	73.50	0.2100	73.35	0.9630	0.3789	73	0.15	0%	0
005.00	Ash, 2h @ 600°C (%)	0563	73.55	0.5595	73.35	0.9630	0.3789	73	0.21	0%	0
005.00	Ash, 2h @ 600°C (%)	0164	73.55	0.2800	73.35	0.9630	0.3789	73	0.21	0%	0
005.00	Ash, 2h @ 600°C (%)	2188	73.55	0.2600	73.35	0.9630	0.3789	73	0.21	0%	0
005.00	Ash, 2h @ 600°C (%)	0098	73.59	0.0500	73.35	0.9630	0.3789	73	0.25	0%	0
005.00	Ash, 2h @ 600°C (%)	0148	73.59	0.1200	73.35	0.9630	0.3789	73	0.25	0%	0
005.00	Ash, 2h @ 600°C (%)	0033	73.60	0.0000	73.35	0.9630	0.3789	73	0.26	0%	0
005.00	Ash, 2h @ 600°C (%)	0512	73.61	0.0700	73.35	0.9630	0.3789	73	0.27	0%	0
005.00	Ash, 2h @ 600°C (%)	0171	73.62	0.0600	73.35	0.9630	0.3789	73	0.28	0%	0
005.00	Ash, 2h @ 600°C (%)	0123	73.67	0.4800	73.35	0.9630	0.3789	73	0.33	0%	0
005.00	Ash, 2h @ 600°C (%)	0017	73.70	0.0000	73.35	0.9630	0.3789	73	0.37	0%	0
005.00	Ash, 2h @ 600°C (%)	2150	73.78	0.6000	73.35	0.9630	0.3789	73	0.45	0%	0
005.00	Ash, 2h @ 600°C (%)	0144	73.80	0.6000	73.35	0.9630	0.3789	73	0.47	0%	0
005.00	Ash, 2h @ 600°C (%)	0083	73.81	0.2700	73.35	0.9630	0.3789	73	0.47	0%	0
005.00	Ash, 2h @ 600°C (%)	2181	73.81	0.1100	73.35	0.9630	0.3789	73	0.47	0%	0
005.00	Ash, 2h @ 600°C (%)	0685	73.84	0.2000	73.35	0.9630	0.3789	73	0.51	0%	0
005.00	Ash, 2h @ 600°C (%)	2196	73.84	0.0000	73.35	0.9630	0.3789	73	0.51	0%	0
005.00	Ash, 2h @ 600°C (%)	2076	74.02	0.6700	73.35	0.9630	0.3789	73	0.69	0%	0
005.00	Ash, 2h @ 600°C (%)	1019	74.04	0.1300	73.35	0.9630	0.3789	73	0.71	0%	0
005.00	Ash, 2h @ 600°C (%)	0242	74.07	0.7500	73.35	0.9630	0.3789	73	0.74	0%	0
005.00	Ash, 2h @ 600°C (%)	2268	74.13	1.100	73.35	0.9630	0.3789	73	0.81	1%	0
005.00	Ash, 2h @ 600°C (%)	0297	74.18	0.0400	73.35	0.9630	0.3789	73	0.86	1%	0
005.00	Ash, 2h @ 600°C (%)	2326	74.19	0.8700	73.35	0.9630	0.3789	73	0.87	1%	0
005.00	Ash, 2h @ 600°C (%)	0693	74.31	1.252	73.35	0.9630	0.3789	73	1.00	1%	0
005.00	Ash, 2h @ 600°C (%)	0226	74.39	0.1100	73.35	0.9630	0.3789	73	1.08	1%	0
005.00	Ash, 2h @ 600°C (%)	2089	74.48	0.1500	73.35	0.9630	0.3789	73	1.17	1%	0
005.00	Ash, 2h @ 600°C (%)	0510	74.51	0.0500	73.35	0.9630	0.3789	73	1.20	1%	0
005.00	Ash, 2h @ 600°C (%)	2433	74.52	0.7004	73.35	0.9630	0.3789	73	1.22	1%	0
005.00	Ash, 2h @ 600°C (%)	0108	74.69	0.5600	73.35	0.9630	0.3789	73	1.39	1%	0
005.00	Ash, 2h @ 600°C (%)	0529	74.76	0.0300	73.35	0.9630	0.3789	73	1.46	1%	0
005.00	Ash, 2h @ 600°C (%)	0880	75.10	0.1600	73.35	0.9630	0.3789	73	1.82	1%	0
005.00	Ash, 2h @ 600°C (%)	0047	75.40	0.8000	73.35	0.9630	0.3789	73	2.13	1%	0
005.00	Ash, 2h @ 600°C (%)	0682	76.06	0.0000	73.35	0.9630	0.3789	73	2.82	2%	0
005.00	Ash, 2h @ 600°C (%)	0345	77.61	0.3800	73.35	0.9630	0.3789	73	4.43	3%	0

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005.00	Ash, 2h @ 600°C (%)	0539	39.32	63.03	73.35	0.9630	0.3789	73	-35.34	23%	1
005.00	Ash, 2h @ 600°C (%)	0964	8.011	0.1460	73.35	0.9630	0.3789	73	-67.85	45%	2
005.03	Ash, Microwave furnace (%)	0511	67.60	7.600				1			0
005.05	Ash, 3h @ 550°C (%)	0692	71.77	1.380	73.96	0.8305	0.4825	20	-2.64	1%	0
005.05	Ash, 3h @ 550°C (%)	0263	72.91	0.0750	73.96	0.8305	0.4825	20	-1.26	1%	0
005.05	Ash, 3h @ 550°C (%)	0726	72.93	0.0200	73.96	0.8305	0.4825	20	-1.24	1%	0
005.05	Ash, 3h @ 550°C (%)	0643	72.99	0.0680	73.96	0.8305	0.4825	20	-1.16	1%	0
005.05	Ash, 3h @ 550°C (%)	0889	73.31	0.5700	73.96	0.8305	0.4825	20	-0.79	0%	0
005.05	Ash, 3h @ 550°C (%)	0066	73.42	0.2900	73.96	0.8305	0.4825	20	-0.66	0%	0
005.05	Ash, 3h @ 550°C (%)	0885	73.68	0.8394	73.96	0.8305	0.4825	20	-0.33	0%	0
005.05	Ash, 3h @ 550°C (%)	2190	73.91	1.070	73.96	0.8305	0.4825	20	-0.07	0%	0
005.05	Ash, 3h @ 550°C (%)	0689	73.97	0.6000	73.96	0.8305	0.4825	20	0.01	0%	0
005.05	Ash, 3h @ 550°C (%)	0590	74.05	0.7000	73.96	0.8305	0.4825	20	0.11	0%	0
005.05	Ash, 3h @ 550°C (%)	0034	74.06	0.7465	73.96	0.8305	0.4825	20	0.12	0%	0
005.05	Ash, 3h @ 550°C (%)	0619	74.20	1.200	73.96	0.8305	0.4825	20	0.29	0%	0
005.05	Ash, 3h @ 550°C (%)	0610	74.25	0.5000	73.96	0.8305	0.4825	20	0.35	0%	0
005.05	Ash, 3h @ 550°C (%)	2246	74.26	0.0400	73.96	0.8305	0.4825	20	0.36	0%	0
005.05	Ash, 3h @ 550°C (%)	2009	74.37	0.0624	73.96	0.8305	0.4825	20	0.49	0%	0
005.05	Ash, 3h @ 550°C (%)	0941	74.40	0.4400	73.96	0.8305	0.4825	20	0.53	0%	0
005.05	Ash, 3h @ 550°C (%)	2144	74.66	0.2500	73.96	0.8305	0.4825	20	0.84	0%	0
005.05	Ash, 3h @ 550°C (%)	0939	74.70	0.5600	73.96	0.8305	0.4825	20	0.89	1%	0
005.05	Ash, 3h @ 550°C (%)	0596	75.30	0.2000	73.96	0.8305	0.4825	20	1.61	1%	0
005.05	Ash, 3h @ 550°C (%)	2129	75.89	0.4279	73.96	0.8305	0.4825	20	2.32	1%	0
005.05	Ash, 3h @ 550°C (%)	0852	72.28	3.250	73.96	0.8305	0.4825	20	-2.03	1%	1
005.11	Ash, NIR (%)	0852	22.56	0.0700				2			0
005.11	Ash, NIR (%)	0889	39.11	0.7250				2			0
005.99	Ash, Miscellaneous (%)	2392	73.18	0.3550	73.87	0.4560	0.1988	5			0
005.99	Ash, Miscellaneous (%)	0202	73.80	0.0000	73.87	0.4560	0.1988	5			0
005.99	Ash, Miscellaneous (%)	0676	73.84	0.0100	73.87	0.4560	0.1988	5			0
005.99	Ash, Miscellaneous (%)	0914	74.13	0.2300	73.87	0.4560	0.1988	5			0
005.99	Ash, Miscellaneous (%)	2319	74.40	0.2000	73.87	0.4560	0.1988	5			0
005.99	Ash, Miscellaneous (%)	0019	69.45	5.100	73.87	0.4560	0.1988	5			1
006.00	Total Sugars, As sucrose (%)	0407	5.520	0.4000				1			0
006.99	Total Sugars, Miscellaneous (%)	0956	6.250	0.7000				1			0
008.02	Fiber, Acid Detergent, Crucible (%)	0098	4.850	0.0800				3			0
008.02	Fiber, Acid Detergent, Crucible (%)	0148	4.895	0.0300				3			0
008.02	Fiber, Acid Detergent, Crucible (%)	0964	18.77	0.7580				3			0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0870	3.101	0.0008	4.036	0.8002	0.3203	11	-1.17	12%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0049	3.175	0.4700	4.036	0.8002	0.3203	11	-1.08	11%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0297	3.500	0.2000	4.036	0.8002	0.3203	11	-0.67	7%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0889	3.505	0.1700	4.036	0.8002	0.3203	11	-0.66	7%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	2302	3.970	0.0600	4.036	0.8002	0.3203	11	-0.08	1%	0

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008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0358	4.060	0.7200	4.036	0.8002	0.3203	11	0.03	0%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0148	4.140	0.6400	4.036	0.8002	0.3203	11	0.13	1%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0407	4.228	0.0401	4.036	0.8002	0.3203	11	0.24	2%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0504	4.350	0.8600	4.036	0.8002	0.3203	11	0.39	4%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0164	5.150	0.1000	4.036	0.8002	0.3203	11	1.39	14%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0037	5.220	0.3000	4.036	0.8002	0.3203	11	1.48	15%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	2433	30.58	2.370	4.036	0.8002	0.3203	11	33.17	329%	2
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat	0964	25.11	0.9240				2			0
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat	0098	28.75	3.900				2			0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0870	7.195	0.0599	10.99	3.685	0.5604	12	-1.03	17%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0358	8.090	0.6200	10.99	3.685	0.5604	12	-0.79	13%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	2302	8.330	0.5000	10.99	3.685	0.5604	12	-0.72	12%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0049	8.355	0.3900	10.99	3.685	0.5604	12	-0.72	12%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0504	8.880	0.1200	10.99	3.685	0.5604	12	-0.57	10%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0148	10.18	0.6200	10.99	3.685	0.5604	12	-0.22	4%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0407	10.25	1.421	10.99	3.685	0.5604	12	-0.20	3%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0598	10.62	0.9400	10.99	3.685	0.5604	12	-0.10	2%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	2433	13.33	0.3983	10.99	3.685	0.5604	12	0.64	11%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0037	13.62	0.4200	10.99	3.685	0.5604	12	0.71	12%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0889	17.08	1.670	10.99	3.685	0.5604	12	1.65	28%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0297	26.90	0.2000	10.99	3.685	0.5604	12	4.32	72%	0
009.99	Fiber, Neutral Detergent, Miscellaneous (%)	0889	10.70	0.1750				1			0
010.03	Moisture, Karl-Fischer (%)	0843	2.945	0.1700				2			0
010.03	Moisture, Karl-Fischer (%)	0164	3.090	0.0800				2			0
010.11	Moisture, NIR (%)	0852	3.295	0.8700				2			0
010.11	Moisture, NIR (%)	0889	6.780	0.1200				2			0
010.99	Moisture, Miscellaneous (%)	0019	1.830	0.1200	2.385	0.4049	0.1144	12	-1.37	12%	0
010.99	Moisture, Miscellaneous (%)	2089	2.095	0.0100	2.385	0.4049	0.1144	12	-0.72	6%	0
010.99	Moisture, Miscellaneous (%)	0726	2.115	0.0100	2.385	0.4049	0.1144	12	-0.67	6%	0
010.99	Moisture, Miscellaneous (%)	0622	2.116	0.0138	2.385	0.4049	0.1144	12	-0.67	6%	0
010.99	Moisture, Miscellaneous (%)	0948	2.205	0.0100	2.385	0.4049	0.1144	12	-0.45	4%	0
010.99	Moisture, Miscellaneous (%)	0939	2.220	0.1600	2.385	0.4049	0.1144	12	-0.41	3%	0
010.99	Moisture, Miscellaneous (%)	2375	2.260	0.0200	2.385	0.4049	0.1144	12	-0.31	3%	0
010.99	Moisture, Miscellaneous (%)	2129	2.606	0.2272	2.385	0.4049	0.1144	12	0.54	5%	0
010.99	Moisture, Miscellaneous (%)	2150	2.620	0.4000	2.385	0.4049	0.1144	12	0.58	5%	0
010.99	Moisture, Miscellaneous (%)	2076	2.770	0.0600	2.385	0.4049	0.1144	12	0.95	8%	0
010.99	Moisture, Miscellaneous (%)	0692	2.795	0.4500	2.385	0.4049	0.1144	12	1.01	9%	0
010.99	Moisture, Miscellaneous (%)	0852	3.510	0.1200	2.385	0.4049	0.1144	12	2.78	24%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0880	1.830	0.0200	3.580	0.4068	0.1158	47	-4.30	24%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	1019	1.980	0.0600	3.580	0.4068	0.1158	47	-3.93	22%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0108	2.810	0.3000	3.580	0.4068	0.1158	47	-1.89	11%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2200	2.950	0.1000	3.580	0.4068	0.1158	47	-1.55	9%	0



Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
011.01	Loss on Drying, HT, 135°C 2hr (%)	0098	2.955	0.0100	3.580	0.4068	0.1158	47	-1.54	9%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0685	3.000	0.1600	3.580	0.4068	0.1158	47	-1.43	8%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2199	3.140	0.4800	3.580	0.4068	0.1158	47	-1.08	6%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2268	3.245	0.0500	3.580	0.4068	0.1158	47	-0.82	5%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0953	3.255	0.0500	3.580	0.4068	0.1158	47	-0.80	5%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0646	3.265	0.0900	3.580	0.4068	0.1158	47	-0.77	4%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2359	3.300	0.4000	3.580	0.4068	0.1158	47	-0.69	4%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2196	3.330	0.0000	3.580	0.4068	0.1158	47	-0.61	3%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0682	3.370	0.0000	3.580	0.4068	0.1158	47	-0.52	3%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0848	3.375	0.1300	3.580	0.4068	0.1158	47	-0.50	3%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0226	3.390	0.0200	3.580	0.4068	0.1158	47	-0.47	3%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0870	3.400	0.0343	3.580	0.4068	0.1158	47	-0.44	3%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2434	3.410	0.0000	3.580	0.4068	0.1158	47	-0.42	2%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0171	3.435	0.0500	3.580	0.4068	0.1158	47	-0.36	2%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0968	3.465	0.0300	3.580	0.4068	0.1158	47	-0.28	2%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0541	3.510	0.0800	3.580	0.4068	0.1158	47	-0.17	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2184	3.510	0.1800	3.580	0.4068	0.1158	47	-0.17	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0674	3.530	0.0000	3.580	0.4068	0.1158	47	-0.12	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0242	3.575	0.0500	3.580	0.4068	0.1158	47	-0.01	0%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0066	3.595	0.0700	3.580	0.4068	0.1158	47	0.04	0%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0622	3.625	0.0942	3.580	0.4068	0.1158	47	0.11	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2302	3.675	0.0100	3.580	0.4068	0.1158	47	0.23	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2433	3.681	0.0877	3.580	0.4068	0.1158	47	0.25	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2181	3.700	0.0400	3.580	0.4068	0.1158	47	0.29	2%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0144	3.705	0.1900	3.580	0.4068	0.1158	47	0.31	2%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0539	3.715	0.0300	3.580	0.4068	0.1158	47	0.33	2%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0574	3.775	0.1700	3.580	0.4068	0.1158	47	0.48	3%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0511	3.820	0.6000	3.580	0.4068	0.1158	47	0.59	3%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0004	3.830	0.0200	3.580	0.4068	0.1158	47	0.61	3%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0589	3.835	0.0100	3.580	0.4068	0.1158	47	0.63	4%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0563	3.843	0.0800	3.580	0.4068	0.1158	47	0.65	4%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2397	3.845	0.0300	3.580	0.4068	0.1158	47	0.65	4%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0643	3.847	0.0040	3.580	0.4068	0.1158	47	0.66	4%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0047	3.850	0.7000	3.580	0.4068	0.1158	47	0.66	4%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2188	3.885	0.0500	3.580	0.4068	0.1158	47	0.75	4%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0229	3.910	0.0800	3.580	0.4068	0.1158	47	0.81	5%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2326	3.930	0.6600	3.580	0.4068	0.1158	47	0.86	5%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0202	3.935	0.2500	3.580	0.4068	0.1158	47	0.87	5%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0164	4.170	0.2400	3.580	0.4068	0.1158	47	1.45	8%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0358	4.170	0.0600	3.580	0.4068	0.1158	47	1.45	8%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0843	4.375	0.8100	3.580	0.4068	0.1158	47	1.95	11%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2006	4.390	0.5200	3.580	0.4068	0.1158	47	1.99	11%	0

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011.01	Loss on Drying, HT, 135°C 2hr (%)	0407	4.419	0.0082	3.580	0.4068	0.1158	47	2.06	12%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0852	5.525	1.070	3.580	0.4068	0.1158	47	4.78	27%	1
011.01	Loss on Drying, HT, 135°C 2hr (%)	0598	9.915	0.4700	3.580	0.4068	0.1158	47	15.57	88%	2
011.02	Loss on Drying, HT, 130°C for 2 hours (%)	0942	3.365	0.0500				3			0
011.02	Loss on Drying, HT, 130°C for 2 hours (%)	0529	3.490	0.1000				3			0
011.02	Loss on Drying, HT, 130°C for 2 hours (%)	0852	5.525	1.070				3			0
011.99	Loss on Drying, HT, High Temp. Methods Misc	0852	3.515	0.1100				1			0
012.00	Starch, Polarimetric (Ewers) (%)	2006	1.555	0.1300				1			0
012.00	Starch, Polarimetric (Ewers) (%)	0164	< 1					1			5
012.01	Starch, Enzymatic-Colorimetric Method (Megaz	0407	0.1979	0.0717	0.6388	0.3976	0.0535	4			0
012.01	Starch, Enzymatic-Colorimetric Method (Megaz	0870	0.4772	0.0221	0.6388	0.3976	0.0535	4			0
012.01	Starch, Enzymatic-Colorimetric Method (Megaz	0164	0.7500	0.1000	0.6388	0.3976	0.0535	4			0
012.01	Starch, Enzymatic-Colorimetric Method (Megaz	0148	1.130	0.0200	0.6388	0.3976	0.0535	4			0
012.01	Starch, Enzymatic-Colorimetric Method (Megaz	0956	< 0.5		0.6388	0.3976	0.0535	4			5
012.03	Starch, Enzymatic-Colorimetric Method, Miscell	0407	0.5574	0.0091				2			0
012.03	Starch, Enzymatic-Colorimetric Method, Miscell	0297	1.445	0.3100				2			0
012.04	Starch, Enzymatic-Enzyme Membrane Technol	0098	0.7300	0.0000				1			0
013.00	Fat, Pretreat, Acid hydrolysis (%)	0297	2.130	0.0000	3.214	0.7354	0.3900	4			0
013.00	Fat, Pretreat, Acid hydrolysis (%)	0202	3.415	0.4300	3.214	0.7354	0.3900	4			0
013.00	Fat, Pretreat, Acid hydrolysis (%)	0541	3.560	0.2400	3.214	0.7354	0.3900	4			0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2076	3.750	0.5000	3.214	0.7354	0.3900	4			0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	0164	2.760	0.0000	3.378	0.5702	0.2151	7	-1.08	9%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	0682	2.830	0.0000	3.378	0.5702	0.2151	7	-0.96	8%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	0870	3.253	0.1856	3.378	0.5702	0.2151	7	-0.22	2%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	0148	3.415	0.2700	3.378	0.5702	0.2151	7	0.06	1%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	0914	3.520	0.1800	3.378	0.5702	0.2151	7	0.25	2%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	0098	3.635	0.0700	3.378	0.5702	0.2151	7	0.45	4%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	0407	4.665	0.3700	3.378	0.5702	0.2151	7	2.26	19%	0
013.10	Fat, Pretreat, Soxtec-Acid Hydrolysis (%)	2268	2.620	0.0600				1			0
013.13	Fat, Pretreat, Ankom- Acid Hydrolysis (%)	2433	0.9621	0.0454				3			0
013.13	Fat, Pretreat, Ankom- Acid Hydrolysis (%)	0843	2.460	0.4800				3			0
013.13	Fat, Pretreat, Ankom- Acid Hydrolysis (%)	0407	4.309	0.1942				3			0
015.41	Aluminum, ICP, Dry ash (ppm)	0964	502.5	9.000	723.0	191.8	57.49	5			0
015.41	Aluminum, ICP, Dry ash (ppm)	0049	572.6	9.480	723.0	191.8	57.49	5			0
015.41	Aluminum, ICP, Dry ash (ppm)	0164	752.5	79.00	723.0	191.8	57.49	5			0
015.41	Aluminum, ICP, Dry ash (ppm)	0407	802.7	19.96	723.0	191.8	57.49	5			0
015.41	Aluminum, ICP, Dry ash (ppm)	0208	985.0	170.0	723.0	191.8	57.49	5			0
015.42	Aluminum, ICP, Open vessel (ppm)	0037	655.5	5.800				2			0
015.42	Aluminum, ICP, Open vessel (ppm)	2129	1,283	6.000				2			0
015.42	Aluminum, ICP, Open vessel (ppm)	0692	< 1					2			5
015.43	Aluminum, ICP, Microwave (ppm)	0964	521.5	23.00	803.6	276.0	16.89	6	-1.02	18%	0
015.43	Aluminum, ICP, Microwave (ppm)	0169	664.5	15.00	803.6	276.0	16.89	6	-0.50	9%	0

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015.43	Aluminum, ICP, Microwave (ppm)	0353	723.0	48.00	803.6	276.0	16.89	6	-0.29	5%	0
015.43	Aluminum, ICP, Microwave (ppm)	0407	759.6	0.7278	803.6	276.0	16.89	6	-0.16	3%	0
015.43	Aluminum, ICP, Microwave (ppm)	0297	935.5	17.00	803.6	276.0	16.89	6	0.48	8%	0
015.43	Aluminum, ICP, Microwave (ppm)	0226	1,658	1.500	803.6	276.0	16.89	6	3.10	53%	0
015.52	Aluminum, ICP-MS, Open vessel (ppm)	0186	926.5	47.00				1			0
015.53	Aluminum, ICP-MS, Microwave (ppm)	0407	936.6	116.5				2			0
015.53	Aluminum, ICP-MS, Microwave (ppm)	0939	1,094	55.00				2			0
015.99	Aluminum, Miscellaneous (ppm)	0123	702.0	4.000				1			0
017.41	Boron, ICP, Dry ash (ppm)	0358	12.49	0.5300				3			0
017.41	Boron, ICP, Dry ash (ppm)	0049	13.77	1.070				3			0
017.41	Boron, ICP, Dry ash (ppm)	0407	15.45	0.8311				3			0
017.42	Boron, ICP, Open vessel (ppm)	2129	12.63	0.5900				3			0
017.42	Boron, ICP, Open vessel (ppm)	0037	14.35	0.3000				3			0
017.42	Boron, ICP, Open vessel (ppm)	0693	15.54	0.1370				3			0
017.43	Boron, ICP, Microwave (ppm)	2055	13.75	0.3000	16.77	2.391	0.6359	7	-1.26	9%	0
017.43	Boron, ICP, Microwave (ppm)	0407	15.94	0.4255	16.77	2.391	0.6359	7	-0.35	2%	0
017.43	Boron, ICP, Microwave (ppm)	0226	15.96	0.4900	16.77	2.391	0.6359	7	-0.34	2%	0
017.43	Boron, ICP, Microwave (ppm)	0510	16.00	0.0000	16.77	2.391	0.6359	7	-0.32	2%	0
017.43	Boron, ICP, Microwave (ppm)	0353	17.00	1.000	16.77	2.391	0.6359	7	0.09	1%	0
017.43	Boron, ICP, Microwave (ppm)	0345	18.41	0.6100	16.77	2.391	0.6359	7	0.68	5%	0
017.43	Boron, ICP, Microwave (ppm)	0083	22.11	0.9900	16.77	2.391	0.6359	7	2.23	16%	0
017.43	Boron, ICP, Microwave (ppm)	0297	0.0000	0.0000	16.77	2.391	0.6359	7			4
017.53	Boron, ICP-MS, Microwave (ppm)	0407	12.61	0.2485				1			0
017.99	Boron, Miscellaneous (ppm)	0123	13.80	0.2000				1			0
019.00	Calcium, Ox-Mn04 Vol. (%)	2006	12.32	0.0680	12.73	0.2835	0.1081	4			0
019.00	Calcium, Ox-Mn04 Vol. (%)	2181	12.80	0.1900	12.73	0.2835	0.1081	4			0
019.00	Calcium, Ox-Mn04 Vol. (%)	2302	12.86	0.0000	12.73	0.2835	0.1081	4			0
019.00	Calcium, Ox-Mn04 Vol. (%)	2190	12.95	0.0663	12.73	0.2835	0.1081	4			0
019.08	Calcium, EDTA (%)	2200	11.21	0.1800	12.96	1.470	0.1998	10	-1.19	7%	0
019.08	Calcium, EDTA (%)	2199	11.84	0.3200	12.96	1.470	0.1998	10	-0.76	4%	0
019.08	Calcium, EDTA (%)	0689	12.22	0.5200	12.96	1.470	0.1998	10	-0.50	3%	0
019.08	Calcium, EDTA (%)	0590	12.39	0.0200	12.96	1.470	0.1998	10	-0.39	2%	0
019.08	Calcium, EDTA (%)	0885	12.59	0.1278	12.96	1.470	0.1998	10	-0.25	1%	0
019.08	Calcium, EDTA (%)	2193	12.87	0.3400	12.96	1.470	0.1998	10	-0.06	0%	0
019.08	Calcium, EDTA (%)	2009	12.89	0.0045	12.96	1.470	0.1998	10	-0.04	0%	0
019.08	Calcium, EDTA (%)	2196	13.24	0.0000	12.96	1.470	0.1998	10	0.19	1%	0
019.08	Calcium, EDTA (%)	2188	15.41	0.1200	12.96	1.470	0.1998	10	1.67	9%	0
019.08	Calcium, EDTA (%)	2434	20.21	0.0000	12.96	1.470	0.1998	10	4.93	28%	0
019.09	Calcium, Ion-selective electrode (%)	2006	12.61	0.4640				2			0
019.09	Calcium, Ion-selective electrode (%)	2392	13.26	0.0750				2			0
019.31	Calcium, AAS, Dry ash (%)	0018	10.89	0.8600	12.67	0.8928	0.2583	17	-2.00	7%	0
019.31	Calcium, AAS, Dry ash (%)	0651	11.11	0.1556	12.67	0.8928	0.2583	17	-1.75	6%	0

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019.31	Calcium, AAS, Dry ash (%)	0622	11.92	0.0589	12.67	0.8928	0.2583	17	-0.85	3%	0
019.31	Calcium, AAS, Dry ash (%)	2246	12.04	0.0100	12.67	0.8928	0.2583	17	-0.72	3%	0
019.31	Calcium, AAS, Dry ash (%)	0038	12.05	0.7000	12.67	0.8928	0.2583	17	-0.70	2%	0
019.31	Calcium, AAS, Dry ash (%)	2325	12.17	0.0300	12.67	0.8928	0.2583	17	-0.57	2%	0
019.31	Calcium, AAS, Dry ash (%)	0939	12.62	0.2300	12.67	0.8928	0.2583	17	-0.07	0%	0
019.31	Calcium, AAS, Dry ash (%)	0536	12.74	0.1800	12.67	0.8928	0.2583	17	0.07	0%	0
019.31	Calcium, AAS, Dry ash (%)	0001	12.81	0.0800	12.67	0.8928	0.2583	17	0.15	1%	0
019.31	Calcium, AAS, Dry ash (%)	0948	12.86	0.0300	12.67	0.8928	0.2583	17	0.20	1%	0
019.31	Calcium, AAS, Dry ash (%)	0884	12.89	0.2400	12.67	0.8928	0.2583	17	0.24	1%	0
019.31	Calcium, AAS, Dry ash (%)	0563	12.95	0.8849	12.67	0.8928	0.2583	17	0.31	1%	0
019.31	Calcium, AAS, Dry ash (%)	2196	12.98	0.0000	12.67	0.8928	0.2583	17	0.34	1%	0
019.31	Calcium, AAS, Dry ash (%)	0529	13.31	0.0600	12.67	0.8928	0.2583	17	0.71	3%	0
019.31	Calcium, AAS, Dry ash (%)	0646	13.67	0.3900	12.67	0.8928	0.2583	17	1.11	4%	0
019.31	Calcium, AAS, Dry ash (%)	0596	13.79	0.1600	12.67	0.8928	0.2583	17	1.25	4%	0
019.31	Calcium, AAS, Dry ash (%)	0108	16.50	0.4900	12.67	0.8928	0.2583	17	4.28	15%	0
019.32	Calcium, AAS, Open vessel (%)	0169	12.30	0.4000				2			0
019.32	Calcium, AAS, Open vessel (%)	2146	12.60	0.5300				2			0
019.33	Calcium, AAS, Microwave (%)	2022	12.47	0.6300				1			0
019.41	Calcium, ICP, Dry ash (%)	0598	10.38	0.0050	12.17	0.6921	0.4431	19	-2.58	7%	0
019.41	Calcium, ICP, Dry ash (%)	0074	11.31	0.4100	12.17	0.6921	0.4431	19	-1.25	4%	0
019.41	Calcium, ICP, Dry ash (%)	0358	11.48	1.060	12.17	0.6921	0.4431	19	-0.99	3%	0
019.41	Calcium, ICP, Dry ash (%)	0685	11.54	0.1200	12.17	0.6921	0.4431	19	-0.91	3%	0
019.41	Calcium, ICP, Dry ash (%)	2259	11.59	0.5300	12.17	0.6921	0.4431	19	-0.84	2%	0
019.41	Calcium, ICP, Dry ash (%)	0144	11.90	0.0000	12.17	0.6921	0.4431	19	-0.39	1%	0
019.41	Calcium, ICP, Dry ash (%)	0148	11.97	0.1690	12.17	0.6921	0.4431	19	-0.29	1%	0
019.41	Calcium, ICP, Dry ash (%)	0066	11.99	0.2800	12.17	0.6921	0.4431	19	-0.26	1%	0
019.41	Calcium, ICP, Dry ash (%)	0098	12.08	0.2100	12.17	0.6921	0.4431	19	-0.13	0%	0
019.41	Calcium, ICP, Dry ash (%)	0674	12.15	0.0000	12.17	0.6921	0.4431	19	-0.03	0%	0
019.41	Calcium, ICP, Dry ash (%)	0910	12.16	1.190	12.17	0.6921	0.4431	19	-0.02	0%	0
019.41	Calcium, ICP, Dry ash (%)	0171	12.35	0.4300	12.17	0.6921	0.4431	19	0.26	1%	0
019.41	Calcium, ICP, Dry ash (%)	0619	12.35	0.1000	12.17	0.6921	0.4431	19	0.26	1%	0
019.41	Calcium, ICP, Dry ash (%)	0229	12.51	0.5800	12.17	0.6921	0.4431	19	0.49	1%	0
019.41	Calcium, ICP, Dry ash (%)	0019	12.59	0.2300	12.17	0.6921	0.4431	19	0.60	2%	0
019.41	Calcium, ICP, Dry ash (%)	0049	12.65	0.8100	12.17	0.6921	0.4431	19	0.69	2%	0
019.41	Calcium, ICP, Dry ash (%)	0407	13.13	0.3967	12.17	0.6921	0.4431	19	1.39	4%	0
019.41	Calcium, ICP, Dry ash (%)	0004	13.14	1.220	12.17	0.6921	0.4431	19	1.40	4%	0
019.41	Calcium, ICP, Dry ash (%)	0226	13.81	0.2100	12.17	0.6921	0.4431	19	2.37	7%	0
019.41	Calcium, ICP, Dry ash (%)	0964	0.2568	0.0061	12.17	0.6921	0.4431	19	-17.21	49%	2
019.42	Calcium, ICP, Open vessel (%)	0026	11.30	0.5490	12.76	1.121	0.5331	19	-1.30	6%	0
019.42	Calcium, ICP, Open vessel (%)	0042	11.60	0.0000	12.76	1.121	0.5331	19	-1.03	5%	0
019.42	Calcium, ICP, Open vessel (%)	0357	11.67	0.1281	12.76	1.121	0.5331	19	-0.97	4%	0
019.42	Calcium, ICP, Open vessel (%)	0693	12.05	0.9460	12.76	1.121	0.5331	19	-0.63	3%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
019.42	Calcium, ICP, Open vessel (%)	0366	12.05	0.1000	12.76	1.121	0.5331	19	-0.63	3%	0
019.42	Calcium, ICP, Open vessel (%)	0263	12.20	0.0860	12.76	1.121	0.5331	19	-0.50	2%	0
019.42	Calcium, ICP, Open vessel (%)	0009	12.20	0.8630	12.76	1.121	0.5331	19	-0.50	2%	0
019.42	Calcium, ICP, Open vessel (%)	0037	12.23	0.0430	12.76	1.121	0.5331	19	-0.47	2%	0
019.42	Calcium, ICP, Open vessel (%)	0504	12.31	0.4530	12.76	1.121	0.5331	19	-0.40	2%	0
019.42	Calcium, ICP, Open vessel (%)	0045	12.50	0.6000	12.76	1.121	0.5331	19	-0.23	1%	0
019.42	Calcium, ICP, Open vessel (%)	2433	12.53	0.4778	12.76	1.121	0.5331	19	-0.20	1%	0
019.42	Calcium, ICP, Open vessel (%)	0870	12.82	0.5700	12.76	1.121	0.5331	19	0.05	0%	0
019.42	Calcium, ICP, Open vessel (%)	2319	12.95	0.1000	12.76	1.121	0.5331	19	0.17	1%	0
019.42	Calcium, ICP, Open vessel (%)	2129	13.02	0.3800	12.76	1.121	0.5331	19	0.23	1%	0
019.42	Calcium, ICP, Open vessel (%)	0278	13.82	0.4400	12.76	1.121	0.5331	19	0.95	4%	0
019.42	Calcium, ICP, Open vessel (%)	0413	14.00	1.000	12.76	1.121	0.5331	19	1.11	5%	0
019.42	Calcium, ICP, Open vessel (%)	2375	14.30	1.200	12.76	1.121	0.5331	19	1.38	6%	0
019.42	Calcium, ICP, Open vessel (%)	0726	14.41	0.5400	12.76	1.121	0.5331	19	1.47	6%	0
019.42	Calcium, ICP, Open vessel (%)	0692	14.72	1.840	12.76	1.121	0.5331	19	1.75	8%	0
019.43	Calcium, ICP, Microwave (%)	0964	0.2466	0.0020	12.20	1.018	0.2026	32	-11.73	49%	0
019.43	Calcium, ICP, Microwave (%)	0353	7.025	0.2700	12.20	1.018	0.2026	32	-5.08	21%	0
019.43	Calcium, ICP, Microwave (%)	0870	10.69	0.2200	12.20	1.018	0.2026	32	-1.48	6%	0
019.43	Calcium, ICP, Microwave (%)	0226	10.83	0.2900	12.20	1.018	0.2026	32	-1.35	6%	0
019.43	Calcium, ICP, Microwave (%)	0510	10.88	0.2200	12.20	1.018	0.2026	32	-1.29	5%	0
019.43	Calcium, ICP, Microwave (%)	0297	11.07	0.2100	12.20	1.018	0.2026	32	-1.11	5%	0
019.43	Calcium, ICP, Microwave (%)	0202	11.15	0.1000	12.20	1.018	0.2026	32	-1.03	4%	0
019.43	Calcium, ICP, Microwave (%)	0354	11.49	0.0000	12.20	1.018	0.2026	32	-0.69	3%	0
019.43	Calcium, ICP, Microwave (%)	0035	11.64	0.1800	12.20	1.018	0.2026	32	-0.55	2%	0
019.43	Calcium, ICP, Microwave (%)	0511	11.88	0.6000	12.20	1.018	0.2026	32	-0.31	1%	0
019.43	Calcium, ICP, Microwave (%)	0876	11.95	0.1000	12.20	1.018	0.2026	32	-0.24	1%	0
019.43	Calcium, ICP, Microwave (%)	0036	12.01	0.1348	12.20	1.018	0.2026	32	-0.18	1%	0
019.43	Calcium, ICP, Microwave (%)	0968	12.05	0.0730	12.20	1.018	0.2026	32	-0.14	1%	0
019.43	Calcium, ICP, Microwave (%)	0083	12.23	0.1100	12.20	1.018	0.2026	32	0.03	0%	0
019.43	Calcium, ICP, Microwave (%)	0017	12.25	0.0671	12.20	1.018	0.2026	32	0.05	0%	0
019.43	Calcium, ICP, Microwave (%)	0013	12.30	0.2000	12.20	1.018	0.2026	32	0.10	0%	0
019.43	Calcium, ICP, Microwave (%)	0610	12.30	0.2000	12.20	1.018	0.2026	32	0.10	0%	0
019.43	Calcium, ICP, Microwave (%)	0505	12.31	0.1600	12.20	1.018	0.2026	32	0.11	0%	0
019.43	Calcium, ICP, Microwave (%)	0675	12.35	0.2600	12.20	1.018	0.2026	32	0.15	1%	0
019.43	Calcium, ICP, Microwave (%)	2089	12.49	0.0400	12.20	1.018	0.2026	32	0.29	1%	0
019.43	Calcium, ICP, Microwave (%)	0010	12.67	0.2400	12.20	1.018	0.2026	32	0.47	2%	0
019.43	Calcium, ICP, Microwave (%)	2276	12.71	0.6274	12.20	1.018	0.2026	32	0.50	2%	0
019.43	Calcium, ICP, Microwave (%)	0098	12.83	0.2100	12.20	1.018	0.2026	32	0.62	3%	0
019.43	Calcium, ICP, Microwave (%)	0407	12.89	1.193	12.20	1.018	0.2026	32	0.68	3%	0
019.43	Calcium, ICP, Microwave (%)	0027	12.94	0.0540	12.20	1.018	0.2026	32	0.73	3%	0
019.43	Calcium, ICP, Microwave (%)	2326	13.00	0.0000	12.20	1.018	0.2026	32	0.79	3%	0
019.43	Calcium, ICP, Microwave (%)	0345	13.01	0.1500	12.20	1.018	0.2026	32	0.79	3%	0



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019.43	Calcium, ICP, Microwave (%)	0028	13.19	0.7700	12.20	1.018	0.2026	32	0.97	4%	0
019.43	Calcium, ICP, Microwave (%)	0941	13.21	0.2700	12.20	1.018	0.2026	32	0.99	4%	0
019.43	Calcium, ICP, Microwave (%)	2055	13.21	0.7851	12.20	1.018	0.2026	32	1.00	4%	0
019.43	Calcium, ICP, Microwave (%)	0682	13.97	0.0000	12.20	1.018	0.2026	32	1.74	7%	0
019.43	Calcium, ICP, Microwave (%)	0848	21.77	0.0200	12.20	1.018	0.2026	32	9.40	39%	0
019.43	Calcium, ICP, Microwave (%)	0038	13.60	1.400	12.20	1.018	0.2026	32	1.38	6%	1
019.44	Calcium, ICP, Dry ash (%)	2114	12.48	0.1670				3			0
019.44	Calcium, ICP, Dry ash (%)	0164	12.80	0.0000				3			0
019.44	Calcium, ICP, Dry ash (%)	2445	12.86	0.1300				3			0
019.44	Calcium, ICP, Dry ash (%)	0039	12.27	1.530				3			1
019.52	Calcium, ICP-MS, Open vessel (%)	0047	12.05	0.4900				2			0
019.52	Calcium, ICP-MS, Open vessel (%)	2146	12.57	0.2200				2			0
019.53	Calcium, ICP-MS, Microwave (%)	0407	11.58	0.6475				2			0
019.53	Calcium, ICP-MS, Microwave (%)	0939	12.53	0.4100				2			0
019.99	Calcium, Miscellaneous (%)	0676	11.24	0.0500	12.37	0.7970	0.3483	6	-1.42	5%	0
019.99	Calcium, Miscellaneous (%)	0242	12.06	0.1500	12.37	0.7970	0.3483	6	-0.39	1%	0
019.99	Calcium, Miscellaneous (%)	0100	12.09	0.7300	12.37	0.7970	0.3483	6	-0.35	1%	0
019.99	Calcium, Miscellaneous (%)	0123	12.85	0.5000	12.37	0.7970	0.3483	6	0.61	2%	0
019.99	Calcium, Miscellaneous (%)	0590	12.90	0.2000	12.37	0.7970	0.3483	6	0.67	2%	0
019.99	Calcium, Miscellaneous (%)	0889	13.07	0.4600	12.37	0.7970	0.3483	6	0.88	3%	0
021.31	Cobalt, AAS, Dry ash (ppm)	0208	92.40	3.600				3			0
021.31	Cobalt, AAS, Dry ash (ppm)	0939	125.0	0.0000				3			0
021.31	Cobalt, AAS, Dry ash (ppm)	0563	554.4	37.88				3			0
021.41	Cobalt, ICP, Dry ash (ppm)	0964	10.23	0.5500	88.28	35.88	2.643	7	-2.18	44%	0
021.41	Cobalt, ICP, Dry ash (ppm)	0066	59.61	1.590	88.28	35.88	2.643	7	-0.80	16%	0
021.41	Cobalt, ICP, Dry ash (ppm)	0407	92.28	4.663	88.28	35.88	2.643	7	0.11	2%	0
021.41	Cobalt, ICP, Dry ash (ppm)	0164	97.50	9.000	88.28	35.88	2.643	7	0.26	5%	0
021.41	Cobalt, ICP, Dry ash (ppm)	0171	100.5	1.000	88.28	35.88	2.643	7	0.34	7%	0
021.41	Cobalt, ICP, Dry ash (ppm)	0619	102.5	1.000	88.28	35.88	2.643	7	0.40	8%	0
021.41	Cobalt, ICP, Dry ash (ppm)	0148	131.1	3.272	88.28	35.88	2.643	7	1.19	24%	0
021.42	Cobalt, ICP, Open vessel (ppm)	0160	84.30	3.200	88.96	7.661	2.302	4			0
021.42	Cobalt, ICP, Open vessel (ppm)	0042	85.15	1.900	88.96	7.661	2.302	4			0
021.42	Cobalt, ICP, Open vessel (ppm)	2433	85.97	0.9080	88.96	7.661	2.302	4			0
021.42	Cobalt, ICP, Open vessel (ppm)	0366	100.4	3.200	88.96	7.661	2.302	4			0
021.42	Cobalt, ICP, Open vessel (ppm)	0693	72.02	16.29	88.96	7.661	2.302	4			1
021.43	Cobalt, ICP, Microwave (ppm)	0964	9.040	0.6400	101.5	25.05	1.151	13	-3.69	46%	0
021.43	Cobalt, ICP, Microwave (ppm)	0169	66.30	0.6000	101.5	25.05	1.151	13	-1.41	17%	0
021.43	Cobalt, ICP, Microwave (ppm)	0407	74.20	0.3294	101.5	25.05	1.151	13	-1.09	13%	0
021.43	Cobalt, ICP, Microwave (ppm)	0297	91.50	1.000	101.5	25.05	1.151	13	-0.40	5%	0
021.43	Cobalt, ICP, Microwave (ppm)	0508	96.34	2.095	101.5	25.05	1.151	13	-0.21	3%	0
021.43	Cobalt, ICP, Microwave (ppm)	0510	105.3	2.280	101.5	25.05	1.151	13	0.15	2%	0
021.43	Cobalt, ICP, Microwave (ppm)	0941	105.6	0.8000	101.5	25.05	1.151	13	0.16	2%	0

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021.43	Cobalt, ICP, Microwave (ppm)	0682	105.7	0.0000	101.5	25.05	1.151	13	0.17	2%	0
021.43	Cobalt, ICP, Microwave (ppm)	0226	114.2	0.8700	101.5	25.05	1.151	13	0.51	6%	0
021.43	Cobalt, ICP, Microwave (ppm)	0610	120.0	0.0000	101.5	25.05	1.151	13	0.74	9%	0
021.43	Cobalt, ICP, Microwave (ppm)	0027	122.4	0.3130	101.5	25.05	1.151	13	0.83	10%	0
021.43	Cobalt, ICP, Microwave (ppm)	2326	124.0	0.0000	101.5	25.05	1.151	13	0.90	11%	0
021.43	Cobalt, ICP, Microwave (ppm)	0038	130.5	5.000	101.5	25.05	1.151	13	1.16	14%	0
021.43	Cobalt, ICP, Microwave (ppm)	0013	126.5	7.000	101.5	25.05	1.151	13	1.00	12%	1
021.52	Cobalt, ICP-MS, Open vessel (ppm)	0047	51.73	0.4900				3			0
021.52	Cobalt, ICP-MS, Open vessel (ppm)	2146	97.54	1.010				3			0
021.52	Cobalt, ICP-MS, Open vessel (ppm)	0186	105.1	5.300				3			0
021.53	Cobalt, ICP-MS, Microwave (ppm)	0407	95.48	10.17				3			0
021.53	Cobalt, ICP-MS, Microwave (ppm)	0939	110.5	3.000				3			0
021.53	Cobalt, ICP-MS, Microwave (ppm)	0043	139.6	2.058				3			0
021.99	Cobalt, Miscellaneous (ppm)	0123	79.55	1.300				1			0
022.31	Copper, AAS, Dry ash (ppm)	0536	1,235	10.00	1,358	84.53	22.16	9	-1.45	5%	0
022.31	Copper, AAS, Dry ash (ppm)	0939	1,301	48.00	1,358	84.53	22.16	9	-0.67	2%	0
022.31	Copper, AAS, Dry ash (ppm)	2196	1,306	0.0000	1,358	84.53	22.16	9	-0.62	2%	0
022.31	Copper, AAS, Dry ash (ppm)	2022	1,320	0.0000	1,358	84.53	22.16	9	-0.45	1%	0
022.31	Copper, AAS, Dry ash (ppm)	0689	1,360	5.000	1,358	84.53	22.16	9	0.02	0%	0
022.31	Copper, AAS, Dry ash (ppm)	0563	1,373	10.01	1,358	84.53	22.16	9	0.18	1%	0
022.31	Copper, AAS, Dry ash (ppm)	2188	1,431	14.00	1,358	84.53	22.16	9	0.86	3%	0
022.31	Copper, AAS, Dry ash (ppm)	0529	1,437	8.400	1,358	84.53	22.16	9	0.93	3%	0
022.31	Copper, AAS, Dry ash (ppm)	0651	1,459	63.50	1,358	84.53	22.16	9	1.19	4%	0
022.31	Copper, AAS, Dry ash (ppm)	0001	1,287	211.0	1,358	84.53	22.16	9	-0.84	3%	1
022.32	Copper, AAS, Open vessel (ppm)	2146	1,347	29.00				2			0
022.32	Copper, AAS, Open vessel (ppm)	0038	1,350	80.00				2			0
022.33	Copper, AAS, Microwave (ppm)	2022	1,382	28.86				2			0
022.33	Copper, AAS, Microwave (ppm)	0948	1,403	37.17				2			0
022.41	Copper, ICP, Dry ash (ppm)	0619	1,066	3.000	1,280	109.5	34.49	16	-1.96	8%	0
022.41	Copper, ICP, Dry ash (ppm)	0848	1,106	32.29	1,280	109.5	34.49	16	-1.59	7%	0
022.41	Copper, ICP, Dry ash (ppm)	2259	1,128	3.000	1,280	109.5	34.49	16	-1.39	6%	0
022.41	Copper, ICP, Dry ash (ppm)	0171	1,224	12.00	1,280	109.5	34.49	16	-0.51	2%	0
022.41	Copper, ICP, Dry ash (ppm)	0407	1,238	15.32	1,280	109.5	34.49	16	-0.39	2%	0
022.41	Copper, ICP, Dry ash (ppm)	0910	1,259	63.00	1,280	109.5	34.49	16	-0.20	1%	0
022.41	Copper, ICP, Dry ash (ppm)	0049	1,266	47.10	1,280	109.5	34.49	16	-0.13	1%	0
022.41	Copper, ICP, Dry ash (ppm)	0019	1,299	75.00	1,280	109.5	34.49	16	0.17	1%	0
022.41	Copper, ICP, Dry ash (ppm)	0358	1,300	64.76	1,280	109.5	34.49	16	0.18	1%	0
022.41	Copper, ICP, Dry ash (ppm)	0598	1,310	2.186	1,280	109.5	34.49	16	0.27	1%	0
022.41	Copper, ICP, Dry ash (ppm)	0098	1,343	24.00	1,280	109.5	34.49	16	0.58	2%	0
022.41	Copper, ICP, Dry ash (ppm)	0148	1,345	124.1	1,280	109.5	34.49	16	0.60	3%	0
022.41	Copper, ICP, Dry ash (ppm)	0229	1,356	0.0000	1,280	109.5	34.49	16	0.70	3%	0
022.41	Copper, ICP, Dry ash (ppm)	0226	1,365	47.21	1,280	109.5	34.49	16	0.78	3%	0

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022.41	Copper, ICP, Dry ash (ppm)	0674	1,381	0.0000	1,280	109.5	34.49	16	0.93	4%	0
022.41	Copper, ICP, Dry ash (ppm)	0004	1,435	10.93	1,280	109.5	34.49	16	1.41	6%	0
022.42	Copper, ICP, Open vessel (ppm)	2319	1,150	60.00	1,318	119.3	42.29	18	-1.41	6%	0
022.42	Copper, ICP, Open vessel (ppm)	0357	1,151	1.410	1,318	119.3	42.29	18	-1.40	6%	0
022.42	Copper, ICP, Open vessel (ppm)	0042	1,180	33.00	1,318	119.3	42.29	18	-1.16	5%	0
022.42	Copper, ICP, Open vessel (ppm)	0045	1,220	140.0	1,318	119.3	42.29	18	-0.82	4%	0
022.42	Copper, ICP, Open vessel (ppm)	0870	1,228	54.00	1,318	119.3	42.29	18	-0.76	3%	0
022.42	Copper, ICP, Open vessel (ppm)	0366	1,235	30.00	1,318	119.3	42.29	18	-0.70	3%	0
022.42	Copper, ICP, Open vessel (ppm)	2433	1,290	52.90	1,318	119.3	42.29	18	-0.24	1%	0
022.42	Copper, ICP, Open vessel (ppm)	0026	1,314	93.68	1,318	119.3	42.29	18	-0.04	0%	0
022.42	Copper, ICP, Open vessel (ppm)	0685	1,332	20.00	1,318	119.3	42.29	18	0.11	1%	0
022.42	Copper, ICP, Open vessel (ppm)	0726	1,342	3.000	1,318	119.3	42.29	18	0.19	1%	0
022.42	Copper, ICP, Open vessel (ppm)	0037	1,347	27.90	1,318	119.3	42.29	18	0.24	1%	0
022.42	Copper, ICP, Open vessel (ppm)	0263	1,361	3.593	1,318	119.3	42.29	18	0.36	2%	0
022.42	Copper, ICP, Open vessel (ppm)	2129	1,372	24.00	1,318	119.3	42.29	18	0.45	2%	0
022.42	Copper, ICP, Open vessel (ppm)	0413	1,410	20.00	1,318	119.3	42.29	18	0.77	3%	0
022.42	Copper, ICP, Open vessel (ppm)	2375	1,426	101.0	1,318	119.3	42.29	18	0.90	4%	0
022.42	Copper, ICP, Open vessel (ppm)	0504	1,436	61.00	1,318	119.3	42.29	18	0.98	4%	0
022.42	Copper, ICP, Open vessel (ppm)	0278	1,441	28.30	1,318	119.3	42.29	18	1.03	5%	0
022.42	Copper, ICP, Open vessel (ppm)	0693	1,531	59.61	1,318	119.3	42.29	18	1.78	8%	0
022.42	Copper, ICP, Open vessel (ppm)	0692	1,557	330.0	1,318	119.3	42.29	18	2.00	9%	1
022.43	Copper, ICP, Microwave (ppm)	0353	795.0	12.00	1,315	94.46	53.97	33	-5.51	20%	0
022.43	Copper, ICP, Microwave (ppm)	2445	1,197	0.0800	1,315	94.46	53.97	33	-1.26	5%	0
022.43	Copper, ICP, Microwave (ppm)	0508	1,200	36.10	1,315	94.46	53.97	33	-1.22	4%	0
022.43	Copper, ICP, Microwave (ppm)	0202	1,213	55.00	1,315	94.46	53.97	33	-1.09	4%	0
022.43	Copper, ICP, Microwave (ppm)	0848	1,230	117.0	1,315	94.46	53.97	33	-0.91	3%	0
022.43	Copper, ICP, Microwave (ppm)	0876	1,235	58.60	1,315	94.46	53.97	33	-0.85	3%	0
022.43	Copper, ICP, Microwave (ppm)	0354	1,236	9.680	1,315	94.46	53.97	33	-0.84	3%	0
022.43	Copper, ICP, Microwave (ppm)	0968	1,242	1.620	1,315	94.46	53.97	33	-0.78	3%	0
022.43	Copper, ICP, Microwave (ppm)	0407	1,248	31.78	1,315	94.46	53.97	33	-0.71	3%	0
022.43	Copper, ICP, Microwave (ppm)	0035	1,257	97.00	1,315	94.46	53.97	33	-0.62	2%	0
022.43	Copper, ICP, Microwave (ppm)	0675	1,268	88.89	1,315	94.46	53.97	33	-0.50	2%	0
022.43	Copper, ICP, Microwave (ppm)	0511	1,269	118.0	1,315	94.46	53.97	33	-0.49	2%	0
022.43	Copper, ICP, Microwave (ppm)	0510	1,275	10.00	1,315	94.46	53.97	33	-0.43	2%	0
022.43	Copper, ICP, Microwave (ppm)	0870	1,282	33.00	1,315	94.46	53.97	33	-0.36	1%	0
022.43	Copper, ICP, Microwave (ppm)	2055	1,291	127.0	1,315	94.46	53.97	33	-0.26	1%	0
022.43	Copper, ICP, Microwave (ppm)	0017	1,296	100.0	1,315	94.46	53.97	33	-0.20	1%	0
022.43	Copper, ICP, Microwave (ppm)	0169	1,300	20.00	1,315	94.46	53.97	33	-0.16	1%	0
022.43	Copper, ICP, Microwave (ppm)	0083	1,315	70.59	1,315	94.46	53.97	33	0.00	0%	0
022.43	Copper, ICP, Microwave (ppm)	0036	1,320	25.30	1,315	94.46	53.97	33	0.04	0%	0
022.43	Copper, ICP, Microwave (ppm)	0297	1,341	70.00	1,315	94.46	53.97	33	0.27	1%	0
022.43	Copper, ICP, Microwave (ppm)	0098	1,342	0.0000	1,315	94.46	53.97	33	0.28	1%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
022.43	Copper, ICP, Microwave (ppm)	0028	1,349	137.1	1,315	94.46	53.97	33	0.35	1%	0
022.43	Copper, ICP, Microwave (ppm)	2089	1,350	106.0	1,315	94.46	53.97	33	0.37	1%	0
022.43	Copper, ICP, Microwave (ppm)	0345	1,362	10.60	1,315	94.46	53.97	33	0.49	2%	0
022.43	Copper, ICP, Microwave (ppm)	0038	1,365	10.00	1,315	94.46	53.97	33	0.53	2%	0
022.43	Copper, ICP, Microwave (ppm)	0941	1,386	18.00	1,315	94.46	53.97	33	0.75	3%	0
022.43	Copper, ICP, Microwave (ppm)	0226	1,403	11.50	1,315	94.46	53.97	33	0.93	3%	0
022.43	Copper, ICP, Microwave (ppm)	0010	1,417	33.00	1,315	94.46	53.97	33	1.07	4%	0
022.43	Copper, ICP, Microwave (ppm)	0027	1,427	33.45	1,315	94.46	53.97	33	1.18	4%	0
022.43	Copper, ICP, Microwave (ppm)	2326	1,452	2.000	1,315	94.46	53.97	33	1.45	5%	0
022.43	Copper, ICP, Microwave (ppm)	0013	1,455	190.0	1,315	94.46	53.97	33	1.48	5%	0
022.43	Copper, ICP, Microwave (ppm)	0610	1,463	105.0	1,315	94.46	53.97	33	1.56	6%	0
022.43	Copper, ICP, Microwave (ppm)	0682	1,489	0.0000	1,315	94.46	53.97	33	1.83	7%	0
022.43	Copper, ICP, Microwave (ppm)	0964	13.53	2.850	1,315	94.46	53.97	33	-13.78	49%	2
022.44	Copper, ICP, Dry ash (ppm)	0039	1,260	163.0	1,333	56.57	61.70	4			0
022.44	Copper, ICP, Dry ash (ppm)	0164	1,320	20.00	1,333	56.57	61.70	4			0
022.44	Copper, ICP, Dry ash (ppm)	0066	1,363	62.00	1,333	56.57	61.70	4			0
022.44	Copper, ICP, Dry ash (ppm)	2114	1,389	1.800	1,333	56.57	61.70	4			0
022.52	Copper, ICP-MS, Open vessel (ppm)	0186	1,284	32.00				3			0
022.52	Copper, ICP-MS, Open vessel (ppm)	2146	1,299	103.0				3			0
022.52	Copper, ICP-MS, Open vessel (ppm)	0047	1,319	28.00				3			0
022.53	Copper, ICP-MS, Microwave (ppm)	0939	1,320	105.0				3			0
022.53	Copper, ICP-MS, Microwave (ppm)	0407	1,329	67.71				3			0
022.53	Copper, ICP-MS, Microwave (ppm)	0043	1,711	67.07				3			0
022.99	Copper, Miscellaneous (ppm)	0242	1,253	5.000	1,331	91.12	32.25	4			0
022.99	Copper, Miscellaneous (ppm)	0123	1,280	56.00	1,331	91.12	32.25	4			0
022.99	Copper, Miscellaneous (ppm)	0590	1,335	10.00	1,331	91.12	32.25	4			0
022.99	Copper, Miscellaneous (ppm)	0100	1,458	58.00	1,331	91.12	32.25	4			0
024.52	Iodine, ICP-MS, Open vessel (ppm)	0910	36.12	11.54	42.78	5.348	8.573	4			0
024.52	Iodine, ICP-MS, Open vessel (ppm)	0160	41.45	11.50	42.78	5.348	8.573	4			0
024.52	Iodine, ICP-MS, Open vessel (ppm)	0941	44.80	7.400	42.78	5.348	8.573	4			0
024.52	Iodine, ICP-MS, Open vessel (ppm)	0186	48.75	3.850	42.78	5.348	8.573	4			0
025.31	Iron, AAS, Dry ash (ppm)	0038	2,575	30.00	4,132	506.0	75.28	9	-3.08	19%	0
025.31	Iron, AAS, Dry ash (ppm)	0651	3,724	89.64	4,132	506.0	75.28	9	-0.81	5%	0
025.31	Iron, AAS, Dry ash (ppm)	2188	3,749	44.00	4,132	506.0	75.28	9	-0.76	5%	0
025.31	Iron, AAS, Dry ash (ppm)	0536	4,068	76.50	4,132	506.0	75.28	9	-0.13	1%	0
025.31	Iron, AAS, Dry ash (ppm)	0529	4,229	100.1	4,132	506.0	75.28	9	0.19	1%	0
025.31	Iron, AAS, Dry ash (ppm)	2196	4,294	0.0000	4,132	506.0	75.28	9	0.32	2%	0
025.31	Iron, AAS, Dry ash (ppm)	0939	4,403	122.0	4,132	506.0	75.28	9	0.54	3%	0
025.31	Iron, AAS, Dry ash (ppm)	0001	4,626	100.0	4,132	506.0	75.28	9	0.98	6%	0
025.31	Iron, AAS, Dry ash (ppm)	2022	4,720	40.00	4,132	506.0	75.28	9	1.16	7%	0
025.32	Iron, AAS, Open vessel (ppm)	2146	3,964	24.00				1			0
025.33	Iron, AAS, Microwave (ppm)	0948	3,603	239.2				2			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
025.33	Iron, AAS, Microwave (ppm)	2022	4,854	1.530				2			0
025.41	Iron, ICP, Dry ash (ppm)	0964	446.0	46.00	4,280	428.2	119.7	19	-8.96	45%	0
025.41	Iron, ICP, Dry ash (ppm)	0358	2,796	128.9	4,280	428.2	119.7	19	-3.47	17%	0
025.41	Iron, ICP, Dry ash (ppm)	0619	3,096	148.0	4,280	428.2	119.7	19	-2.77	14%	0
025.41	Iron, ICP, Dry ash (ppm)	0407	3,910	23.35	4,280	428.2	119.7	19	-0.86	4%	0
025.41	Iron, ICP, Dry ash (ppm)	0598	3,925	105.1	4,280	428.2	119.7	19	-0.83	4%	0
025.41	Iron, ICP, Dry ash (ppm)	0074	4,120	54.00	4,280	428.2	119.7	19	-0.37	2%	0
025.41	Iron, ICP, Dry ash (ppm)	0674	4,124	0.0000	4,280	428.2	119.7	19	-0.37	2%	0
025.41	Iron, ICP, Dry ash (ppm)	0098	4,299	137.0	4,280	428.2	119.7	19	0.04	0%	0
025.41	Iron, ICP, Dry ash (ppm)	0229	4,315	106.0	4,280	428.2	119.7	19	0.08	0%	0
025.41	Iron, ICP, Dry ash (ppm)	0171	4,330	140.0	4,280	428.2	119.7	19	0.12	1%	0
025.41	Iron, ICP, Dry ash (ppm)	0049	4,475	241.0	4,280	428.2	119.7	19	0.46	2%	0
025.41	Iron, ICP, Dry ash (ppm)	0910	4,501	293.0	4,280	428.2	119.7	19	0.51	3%	0
025.41	Iron, ICP, Dry ash (ppm)	0066	4,531	178.7	4,280	428.2	119.7	19	0.58	3%	0
025.41	Iron, ICP, Dry ash (ppm)	2114	4,534	43.40	4,280	428.2	119.7	19	0.59	3%	0
025.41	Iron, ICP, Dry ash (ppm)	0148	4,604	155.9	4,280	428.2	119.7	19	0.76	4%	0
025.41	Iron, ICP, Dry ash (ppm)	0164	4,615	30.00	4,280	428.2	119.7	19	0.78	4%	0
025.41	Iron, ICP, Dry ash (ppm)	0004	4,644	37.65	4,280	428.2	119.7	19	0.85	4%	0
025.41	Iron, ICP, Dry ash (ppm)	0019	4,646	124.0	4,280	428.2	119.7	19	0.85	4%	0
025.41	Iron, ICP, Dry ash (ppm)	0226	4,841	217.0	4,280	428.2	119.7	19	1.31	7%	0
025.42	Iron, ICP, Open vessel (ppm)	0357	3,232	45.35	4,185	465.6	145.8	18	-2.05	11%	0
025.42	Iron, ICP, Open vessel (ppm)	0037	3,699	180.4	4,185	465.6	145.8	18	-1.04	6%	0
025.42	Iron, ICP, Open vessel (ppm)	2375	3,727	132.0	4,185	465.6	145.8	18	-0.98	5%	0
025.42	Iron, ICP, Open vessel (ppm)	0726	3,758	42.00	4,185	465.6	145.8	18	-0.92	5%	0
025.42	Iron, ICP, Open vessel (ppm)	0366	3,780	160.0	4,185	465.6	145.8	18	-0.87	5%	0
025.42	Iron, ICP, Open vessel (ppm)	0042	3,919	95.00	4,185	465.6	145.8	18	-0.57	3%	0
025.42	Iron, ICP, Open vessel (ppm)	0045	4,090	700.0	4,185	465.6	145.8	18	-0.20	1%	0
025.42	Iron, ICP, Open vessel (ppm)	2319	4,145	70.00	4,185	465.6	145.8	18	-0.09	0%	0
025.42	Iron, ICP, Open vessel (ppm)	0693	4,150	152.9	4,185	465.6	145.8	18	-0.07	0%	0
025.42	Iron, ICP, Open vessel (ppm)	2433	4,191	213.5	4,185	465.6	145.8	18	0.01	0%	0
025.42	Iron, ICP, Open vessel (ppm)	0263	4,206	77.71	4,185	465.6	145.8	18	0.04	0%	0
025.42	Iron, ICP, Open vessel (ppm)	0413	4,320	160.0	4,185	465.6	145.8	18	0.29	2%	0
025.42	Iron, ICP, Open vessel (ppm)	0009	4,352	112.0	4,185	465.6	145.8	18	0.36	2%	0
025.42	Iron, ICP, Open vessel (ppm)	0504	4,496	74.00	4,185	465.6	145.8	18	0.67	4%	0
025.42	Iron, ICP, Open vessel (ppm)	0026	4,589	150.9	4,185	465.6	145.8	18	0.87	5%	0
025.42	Iron, ICP, Open vessel (ppm)	0870	4,654	222.0	4,185	465.6	145.8	18	1.01	6%	0
025.42	Iron, ICP, Open vessel (ppm)	0278	5,229	265.0	4,185	465.6	145.8	18	2.24	12%	0
025.42	Iron, ICP, Open vessel (ppm)	2129	6,455	206.0	4,185	465.6	145.8	18	4.88	27%	0
025.42	Iron, ICP, Open vessel (ppm)	0692	5,304	892.0	4,185	465.6	145.8	18	2.40	13%	1
025.43	Iron, ICP, Microwave (ppm)	0964	453.5	35.00	4,193	451.6	142.3	28	-8.28	45%	0
025.43	Iron, ICP, Microwave (ppm)	0353	2,713	121.0	4,193	451.6	142.3	28	-3.28	18%	0
025.43	Iron, ICP, Microwave (ppm)	2055	2,914	356.0	4,193	451.6	142.3	28	-2.83	15%	0



Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
025.43	Iron, ICP, Microwave (ppm)	0407	3,626	119.3	4,193	451.6	142.3	28	-1.26	7%	0
025.43	Iron, ICP, Microwave (ppm)	0610	3,635	110.0	4,193	451.6	142.3	28	-1.24	7%	0
025.43	Iron, ICP, Microwave (ppm)	0226	3,768	25.50	4,193	451.6	142.3	28	-0.94	5%	0
025.43	Iron, ICP, Microwave (ppm)	0169	3,940	60.00	4,193	451.6	142.3	28	-0.56	3%	0
025.43	Iron, ICP, Microwave (ppm)	0876	3,975	600.7	4,193	451.6	142.3	28	-0.48	3%	0
025.43	Iron, ICP, Microwave (ppm)	0870	3,976	53.00	4,193	451.6	142.3	28	-0.48	3%	0
025.43	Iron, ICP, Microwave (ppm)	0354	4,030	168.6	4,193	451.6	142.3	28	-0.36	2%	0
025.43	Iron, ICP, Microwave (ppm)	0508	4,065	126.3	4,193	451.6	142.3	28	-0.28	2%	0
025.43	Iron, ICP, Microwave (ppm)	0510	4,080	40.00	4,193	451.6	142.3	28	-0.25	1%	0
025.43	Iron, ICP, Microwave (ppm)	0675	4,127	113.0	4,193	451.6	142.3	28	-0.15	1%	0
025.43	Iron, ICP, Microwave (ppm)	0028	4,210	641.6	4,193	451.6	142.3	28	0.04	0%	0
025.43	Iron, ICP, Microwave (ppm)	0083	4,312	131.2	4,193	451.6	142.3	28	0.26	1%	0
025.43	Iron, ICP, Microwave (ppm)	0297	4,318	60.00	4,193	451.6	142.3	28	0.28	1%	0
025.43	Iron, ICP, Microwave (ppm)	0505	4,348	296.0	4,193	451.6	142.3	28	0.34	2%	0
025.43	Iron, ICP, Microwave (ppm)	0098	4,381	52.00	4,193	451.6	142.3	28	0.42	2%	0
025.43	Iron, ICP, Microwave (ppm)	0017	4,436	284.2	4,193	451.6	142.3	28	0.54	3%	0
025.43	Iron, ICP, Microwave (ppm)	0511	4,531	75.00	4,193	451.6	142.3	28	0.75	4%	0
025.43	Iron, ICP, Microwave (ppm)	2089	4,555	70.99	4,193	451.6	142.3	28	0.80	4%	0
025.43	Iron, ICP, Microwave (ppm)	0682	4,562	0.0000	4,193	451.6	142.3	28	0.82	4%	0
025.43	Iron, ICP, Microwave (ppm)	0013	4,570	80.00	4,193	451.6	142.3	28	0.84	4%	0
025.43	Iron, ICP, Microwave (ppm)	0027	4,658	386.4	4,193	451.6	142.3	28	1.03	6%	0
025.43	Iron, ICP, Microwave (ppm)	2326	4,661	586.0	4,193	451.6	142.3	28	1.04	6%	0
025.43	Iron, ICP, Microwave (ppm)	0941	4,665	55.00	4,193	451.6	142.3	28	1.04	6%	0
025.43	Iron, ICP, Microwave (ppm)	0035	4,692	30.00	4,193	451.6	142.3	28	1.11	6%	0
025.43	Iron, ICP, Microwave (ppm)	0345	4,735	6.500	4,193	451.6	142.3	28	1.20	6%	0
025.52	Iron, ICP-MS, Open vessel (ppm)	0047	3,749	8.000				2			0
025.52	Iron, ICP-MS, Open vessel (ppm)	2146	4,186	112.0				2			0
025.53	Iron, ICP-MS, Microwave (ppm)	0407	4,377	5.911				3			0
025.53	Iron, ICP-MS, Microwave (ppm)	0939	4,390	169.0				3			0
025.53	Iron, ICP-MS, Microwave (ppm)	0043	5,352	257.3				3			0
025.99	Iron, Miscellaneous (ppm)	0123	3,976	132.0				3			0
025.99	Iron, Miscellaneous (ppm)	0100	4,376	78.00				3			0
025.99	Iron, Miscellaneous (ppm)	0242	4,473	12.00				3			0
027.31	Magnesium, AAS, Dry ash (%)	0529	9.532	0.0800	10.96	0.6880	0.6226	9	-2.08	7%	0
027.31	Magnesium, AAS, Dry ash (%)	0646	10.47	0.6600	10.96	0.6880	0.6226	9	-0.72	2%	0
027.31	Magnesium, AAS, Dry ash (%)	0596	10.55	0.9500	10.96	0.6880	0.6226	9	-0.61	2%	0
027.31	Magnesium, AAS, Dry ash (%)	0563	10.77	0.0788	10.96	0.6880	0.6226	9	-0.28	1%	0
027.31	Magnesium, AAS, Dry ash (%)	2196	10.92	0.0000	10.96	0.6880	0.6226	9	-0.06	0%	0
027.31	Magnesium, AAS, Dry ash (%)	0939	11.31	0.3800	10.96	0.6880	0.6226	9	0.50	2%	0
027.31	Magnesium, AAS, Dry ash (%)	0038	11.40	2.000	10.96	0.6880	0.6226	9	0.63	2%	0
027.31	Magnesium, AAS, Dry ash (%)	0536	11.41	0.3200	10.96	0.6880	0.6226	9	0.65	2%	0
027.31	Magnesium, AAS, Dry ash (%)	0001	11.92	1.040	10.96	0.6880	0.6226	9	1.39	4%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
027.32	Magnesium, AAS, Open vessel (%)	0169	10.25	0.1000				2			0
027.32	Magnesium, AAS, Open vessel (%)	2146	11.22	0.4900				2			0
027.33	Magnesium, AAS, Microwave (%)	0948	11.88	0.3030				1			0
027.41	Magnesium, ICP, Dry ash (%)	0964	0.6865	0.0258	10.90	1.098	0.5136	18	-9.30	47%	0
027.41	Magnesium, ICP, Dry ash (%)	0049	3.340	1.220	10.90	1.098	0.5136	18	-6.89	35%	0
027.41	Magnesium, ICP, Dry ash (%)	0598	4.352	0.0096	10.90	1.098	0.5136	18	-5.96	30%	0
027.41	Magnesium, ICP, Dry ash (%)	0358	9.565	0.3300	10.90	1.098	0.5136	18	-1.22	6%	0
027.41	Magnesium, ICP, Dry ash (%)	0619	10.70	0.4000	10.90	1.098	0.5136	18	-0.18	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0098	10.75	0.1300	10.90	1.098	0.5136	18	-0.14	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0171	10.89	0.6100	10.90	1.098	0.5136	18	-0.02	0%	0
027.41	Magnesium, ICP, Dry ash (%)	0229	10.91	0.9800	10.90	1.098	0.5136	18	0.01	0%	0
027.41	Magnesium, ICP, Dry ash (%)	0910	11.06	0.2400	10.90	1.098	0.5136	18	0.14	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0074	11.18	0.5400	10.90	1.098	0.5136	18	0.25	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0004	11.26	1.010	10.90	1.098	0.5136	18	0.32	2%	0
027.41	Magnesium, ICP, Dry ash (%)	0019	11.27	0.2900	10.90	1.098	0.5136	18	0.33	2%	0
027.41	Magnesium, ICP, Dry ash (%)	0066	11.39	0.2700	10.90	1.098	0.5136	18	0.44	2%	0
027.41	Magnesium, ICP, Dry ash (%)	0674	11.50	0.0000	10.90	1.098	0.5136	18	0.54	3%	0
027.41	Magnesium, ICP, Dry ash (%)	0148	11.77	0.1700	10.90	1.098	0.5136	18	0.79	4%	0
027.41	Magnesium, ICP, Dry ash (%)	0407	11.94	1.022	10.90	1.098	0.5136	18	0.94	5%	0
027.41	Magnesium, ICP, Dry ash (%)	2259	12.08	1.573	10.90	1.098	0.5136	18	1.08	5%	0
027.41	Magnesium, ICP, Dry ash (%)	0226	12.24	0.2600	10.90	1.098	0.5136	18	1.22	6%	0
027.42	Magnesium, ICP, Open vessel (%)	0357	9.951	0.0091	11.35	1.071	0.4213	20	-1.31	6%	0
027.42	Magnesium, ICP, Open vessel (%)	0037	10.18	0.1330	11.35	1.071	0.4213	20	-1.09	5%	0
027.42	Magnesium, ICP, Open vessel (%)	0026	10.22	0.5160	11.35	1.071	0.4213	20	-1.06	5%	0
027.42	Magnesium, ICP, Open vessel (%)	0042	10.45	0.3000	11.35	1.071	0.4213	20	-0.84	4%	0
027.42	Magnesium, ICP, Open vessel (%)	0263	10.67	0.0310	11.35	1.071	0.4213	20	-0.63	3%	0
027.42	Magnesium, ICP, Open vessel (%)	0045	10.70	0.4000	11.35	1.071	0.4213	20	-0.61	3%	0
027.42	Magnesium, ICP, Open vessel (%)	0685	10.73	0.2000	11.35	1.071	0.4213	20	-0.58	3%	0
027.42	Magnesium, ICP, Open vessel (%)	0504	10.80	1.316	11.35	1.071	0.4213	20	-0.52	2%	0
027.42	Magnesium, ICP, Open vessel (%)	0009	10.93	1.710	11.35	1.071	0.4213	20	-0.39	2%	0
027.42	Magnesium, ICP, Open vessel (%)	0366	10.95	0.3000	11.35	1.071	0.4213	20	-0.37	2%	0
027.42	Magnesium, ICP, Open vessel (%)	0693	11.15	1.336	11.35	1.071	0.4213	20	-0.19	1%	0
027.42	Magnesium, ICP, Open vessel (%)	0870	11.25	0.5400	11.35	1.071	0.4213	20	-0.09	0%	0
027.42	Magnesium, ICP, Open vessel (%)	0413	11.75	0.3000	11.35	1.071	0.4213	20	0.37	2%	0
027.42	Magnesium, ICP, Open vessel (%)	2433	11.91	0.4212	11.35	1.071	0.4213	20	0.52	2%	0
027.42	Magnesium, ICP, Open vessel (%)	2319	12.30	0.2000	11.35	1.071	0.4213	20	0.89	4%	0
027.42	Magnesium, ICP, Open vessel (%)	2129	12.38	0.2700	11.35	1.071	0.4213	20	0.96	5%	0
027.42	Magnesium, ICP, Open vessel (%)	0278	12.41	0.8900	11.35	1.071	0.4213	20	0.99	5%	0
027.42	Magnesium, ICP, Open vessel (%)	0726	12.58	0.1300	11.35	1.071	0.4213	20	1.14	5%	0
027.42	Magnesium, ICP, Open vessel (%)	2375	12.75	0.7000	11.35	1.071	0.4213	20	1.31	6%	0
027.42	Magnesium, ICP, Open vessel (%)	0692	13.52	0.2200	11.35	1.071	0.4213	20	2.03	10%	0
027.43	Magnesium, ICP, Microwave (%)	0964	0.6481	0.0023	10.94	0.8862	0.3484	33	-11.61	47%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
027.43	Magnesium, ICP, Microwave (%)	0353	6.150	0.7000	10.94	0.8862	0.3484	33	-5.40	22%	0
027.43	Magnesium, ICP, Microwave (%)	0870	8.596	0.0100	10.94	0.8862	0.3484	33	-2.64	11%	0
027.43	Magnesium, ICP, Microwave (%)	0018	9.065	0.8900	10.94	0.8862	0.3484	33	-2.11	9%	0
027.43	Magnesium, ICP, Microwave (%)	0202	9.770	0.1200	10.94	0.8862	0.3484	33	-1.32	5%	0
027.43	Magnesium, ICP, Microwave (%)	0226	9.830	0.4000	10.94	0.8862	0.3484	33	-1.25	5%	0
027.43	Magnesium, ICP, Microwave (%)	0013	10.35	0.1000	10.94	0.8862	0.3484	33	-0.66	3%	0
027.43	Magnesium, ICP, Microwave (%)	0510	10.43	0.2500	10.94	0.8862	0.3484	33	-0.58	2%	0
027.43	Magnesium, ICP, Microwave (%)	0035	10.51	0.2100	10.94	0.8862	0.3484	33	-0.49	2%	0
027.43	Magnesium, ICP, Microwave (%)	0675	10.57	0.0400	10.94	0.8862	0.3484	33	-0.42	2%	0
027.43	Magnesium, ICP, Microwave (%)	0876	10.60	0.2000	10.94	0.8862	0.3484	33	-0.38	2%	0
027.43	Magnesium, ICP, Microwave (%)	0036	10.74	0.1522	10.94	0.8862	0.3484	33	-0.22	1%	0
027.43	Magnesium, ICP, Microwave (%)	0027	10.87	0.3500	10.94	0.8862	0.3484	33	-0.08	0%	0
027.43	Magnesium, ICP, Microwave (%)	0083	10.90	0.1500	10.94	0.8862	0.3484	33	-0.05	0%	0
027.43	Magnesium, ICP, Microwave (%)	0017	10.90	0.5542	10.94	0.8862	0.3484	33	-0.05	0%	0
027.43	Magnesium, ICP, Microwave (%)	0098	10.90	0.0000	10.94	0.8862	0.3484	33	-0.04	0%	0
027.43	Magnesium, ICP, Microwave (%)	2326	11.00	0.0000	10.94	0.8862	0.3484	33	0.07	0%	0
027.43	Magnesium, ICP, Microwave (%)	0968	11.02	0.2140	10.94	0.8862	0.3484	33	0.09	0%	0
027.43	Magnesium, ICP, Microwave (%)	0941	11.10	0.4100	10.94	0.8862	0.3484	33	0.18	1%	0
027.43	Magnesium, ICP, Microwave (%)	0010	11.23	0.7800	10.94	0.8862	0.3484	33	0.33	1%	0
027.43	Magnesium, ICP, Microwave (%)	0610	11.28	0.5500	10.94	0.8862	0.3484	33	0.38	2%	0
027.43	Magnesium, ICP, Microwave (%)	0354	11.29	0.0700	10.94	0.8862	0.3484	33	0.39	2%	0
027.43	Magnesium, ICP, Microwave (%)	0297	11.32	0.2400	10.94	0.8862	0.3484	33	0.43	2%	0
027.43	Magnesium, ICP, Microwave (%)	0511	11.45	1.060	10.94	0.8862	0.3484	33	0.58	2%	0
027.43	Magnesium, ICP, Microwave (%)	2055	11.48	0.6485	10.94	0.8862	0.3484	33	0.61	2%	0
027.43	Magnesium, ICP, Microwave (%)	2089	11.50	0.0200	10.94	0.8862	0.3484	33	0.63	3%	0
027.43	Magnesium, ICP, Microwave (%)	0508	11.60	0.7410	10.94	0.8862	0.3484	33	0.75	3%	0
027.43	Magnesium, ICP, Microwave (%)	2445	11.66	0.2300	10.94	0.8862	0.3484	33	0.81	3%	0
027.43	Magnesium, ICP, Microwave (%)	0345	11.80	0.0700	10.94	0.8862	0.3484	33	0.97	4%	0
027.43	Magnesium, ICP, Microwave (%)	0505	11.84	0.1600	10.94	0.8862	0.3484	33	1.02	4%	0
027.43	Magnesium, ICP, Microwave (%)	0407	12.11	0.5949	10.94	0.8862	0.3484	33	1.33	5%	0
027.43	Magnesium, ICP, Microwave (%)	0038	12.55	0.9000	10.94	0.8862	0.3484	33	1.82	7%	0
027.43	Magnesium, ICP, Microwave (%)	0682	13.61	0.0000	10.94	0.8862	0.3484	33	3.01	12%	0
027.43	Magnesium, ICP, Microwave (%)	0028	10.98	2.590	10.94	0.8862	0.3484	33	0.04	0%	1
027.44	Magnesium, ICP, Dry ash (%)	0039	9.023	0.1560				3			0
027.44	Magnesium, ICP, Dry ash (%)	2114	10.96	0.2300				3			0
027.44	Magnesium, ICP, Dry ash (%)	0164	11.55	0.7000				3			0
027.52	Magnesium, ICP-MS, Open vessel (%)	2146	10.99	0.2300				2			0
027.52	Magnesium, ICP-MS, Open vessel (%)	0047	11.45	0.2900				2			0
027.53	Magnesium, ICP-MS, Microwave (%)	0407	9.774	0.1439				2			0
027.53	Magnesium, ICP-MS, Microwave (%)	0939	10.89	0.2200				2			0
027.99	Magnesium, Miscellaneous (%)	0123	10.50	0.6000	11.08	0.5108	0.3600	4			0
027.99	Magnesium, Miscellaneous (%)	0242	10.89	0.1300	11.08	0.5108	0.3600	4			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
027.99	Magnesium, Miscellaneous (%)	0100	11.24	0.5100	11.08	0.5108	0.3600	4			0
027.99	Magnesium, Miscellaneous (%)	0590	11.70	0.2000	11.08	0.5108	0.3600	4			0
027.99	Magnesium, Miscellaneous (%)	0889	5.105	0.1500	11.08	0.5108	0.3600	4			2
028.00	Manganese, Color (ppm)	2392	1,710	83.50				1			0
028.31	Manganese, AAS, Dry ash (ppm)	0689	1,184	41.00	1,649	115.2	43.35	10	-4.04	14%	0
028.31	Manganese, AAS, Dry ash (ppm)	2188	1,503	2.000	1,649	115.2	43.35	10	-1.27	4%	0
028.31	Manganese, AAS, Dry ash (ppm)	0939	1,584	13.00	1,649	115.2	43.35	10	-0.57	2%	0
028.31	Manganese, AAS, Dry ash (ppm)	0563	1,617	142.1	1,649	115.2	43.35	10	-0.27	1%	0
028.31	Manganese, AAS, Dry ash (ppm)	0529	1,670	50.00	1,649	115.2	43.35	10	0.19	1%	0
028.31	Manganese, AAS, Dry ash (ppm)	2196	1,672	0.0000	1,649	115.2	43.35	10	0.20	1%	0
028.31	Manganese, AAS, Dry ash (ppm)	0651	1,717	17.43	1,649	115.2	43.35	10	0.59	2%	0
028.31	Manganese, AAS, Dry ash (ppm)	2022	1,740	60.00	1,649	115.2	43.35	10	0.79	3%	0
028.31	Manganese, AAS, Dry ash (ppm)	0536	1,747	9.000	1,649	115.2	43.35	10	0.85	3%	0
028.31	Manganese, AAS, Dry ash (ppm)	0001	1,763	91.00	1,649	115.2	43.35	10	0.99	3%	0
028.32	Manganese, AAS, Open vessel (ppm)	0038	1,505	110.0				2			0
028.32	Manganese, AAS, Open vessel (ppm)	2146	1,619	68.00				2			0
028.33	Manganese, AAS, Microwave (ppm)	0948	1,622	9.960				2			0
028.33	Manganese, AAS, Microwave (ppm)	2022	1,767	55.76				2			0
028.41	Manganese, ICP, Dry ash (ppm)	0964	44.90	4.200	1,606	175.1	21.52	15	-8.91	49%	0
028.41	Manganese, ICP, Dry ash (ppm)	0619	1,312	51.00	1,606	175.1	21.52	15	-1.68	9%	0
028.41	Manganese, ICP, Dry ash (ppm)	0358	1,479	50.23	1,606	175.1	21.52	15	-0.73	4%	0
028.41	Manganese, ICP, Dry ash (ppm)	0407	1,484	32.16	1,606	175.1	21.52	15	-0.69	4%	0
028.41	Manganese, ICP, Dry ash (ppm)	0598	1,502	0.2931	1,606	175.1	21.52	15	-0.59	3%	0
028.41	Manganese, ICP, Dry ash (ppm)	0074	1,532	7.000	1,606	175.1	21.52	15	-0.42	2%	0
028.41	Manganese, ICP, Dry ash (ppm)	0049	1,585	38.56	1,606	175.1	21.52	15	-0.12	1%	0
028.41	Manganese, ICP, Dry ash (ppm)	0171	1,610	20.00	1,606	175.1	21.52	15	0.02	0%	0
028.41	Manganese, ICP, Dry ash (ppm)	0229	1,688	14.00	1,606	175.1	21.52	15	0.47	3%	0
028.41	Manganese, ICP, Dry ash (ppm)	0098	1,701	1.000	1,606	175.1	21.52	15	0.54	3%	0
028.41	Manganese, ICP, Dry ash (ppm)	0910	1,720	16.00	1,606	175.1	21.52	15	0.65	4%	0
028.41	Manganese, ICP, Dry ash (ppm)	0004	1,720	18.96	1,606	175.1	21.52	15	0.66	4%	0
028.41	Manganese, ICP, Dry ash (ppm)	0019	1,770	9.000	1,606	175.1	21.52	15	0.94	5%	0
028.41	Manganese, ICP, Dry ash (ppm)	0674	1,790	0.0000	1,606	175.1	21.52	15	1.05	6%	0
028.41	Manganese, ICP, Dry ash (ppm)	0226	1,819	38.94	1,606	175.1	21.52	15	1.22	7%	0
028.41	Manganese, ICP, Dry ash (ppm)	0148	1,786	174.4	1,606	175.1	21.52	15	1.03	6%	1
028.42	Manganese, ICP, Open vessel (ppm)	0726	1,438	32.00	1,624	116.2	53.56	19	-1.60	6%	0
028.42	Manganese, ICP, Open vessel (ppm)	0042	1,481	39.00	1,624	116.2	53.56	19	-1.24	4%	0
028.42	Manganese, ICP, Open vessel (ppm)	0870	1,498	58.00	1,624	116.2	53.56	19	-1.09	4%	0
028.42	Manganese, ICP, Open vessel (ppm)	0685	1,555	20.00	1,624	116.2	53.56	19	-0.59	2%	0
028.42	Manganese, ICP, Open vessel (ppm)	0357	1,559	0.1800	1,624	116.2	53.56	19	-0.56	2%	0
028.42	Manganese, ICP, Open vessel (ppm)	2129	1,573	21.00	1,624	116.2	53.56	19	-0.44	2%	0
028.42	Manganese, ICP, Open vessel (ppm)	0045	1,585	270.0	1,624	116.2	53.56	19	-0.34	1%	0
028.42	Manganese, ICP, Open vessel (ppm)	2319	1,585	30.00	1,624	116.2	53.56	19	-0.34	1%	0



Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
028.42	Manganese, ICP, Open vessel (ppm)	0504	1,599	36.10	1,624	116.2	53.56	19	-0.21	1%	0
028.42	Manganese, ICP, Open vessel (ppm)	2433	1,601	63.80	1,624	116.2	53.56	19	-0.20	1%	0
028.42	Manganese, ICP, Open vessel (ppm)	0263	1,611	26.19	1,624	116.2	53.56	19	-0.11	0%	0
028.42	Manganese, ICP, Open vessel (ppm)	0037	1,640	5.900	1,624	116.2	53.56	19	0.13	0%	0
028.42	Manganese, ICP, Open vessel (ppm)	0009	1,651	28.00	1,624	116.2	53.56	19	0.23	1%	0
028.42	Manganese, ICP, Open vessel (ppm)	0366	1,680	80.00	1,624	116.2	53.56	19	0.48	2%	0
028.42	Manganese, ICP, Open vessel (ppm)	0026	1,696	180.7	1,624	116.2	53.56	19	0.62	2%	0
028.42	Manganese, ICP, Open vessel (ppm)	0413	1,700	140.0	1,624	116.2	53.56	19	0.65	2%	0
028.42	Manganese, ICP, Open vessel (ppm)	2375	1,812	118.0	1,624	116.2	53.56	19	1.62	6%	0
028.42	Manganese, ICP, Open vessel (ppm)	0278	1,904	3.000	1,624	116.2	53.56	19	2.40	9%	0
028.42	Manganese, ICP, Open vessel (ppm)	0692	1,964	71.00	1,624	116.2	53.56	19	2.92	10%	0
028.42	Manganese, ICP, Open vessel (ppm)	0693	1,827	446.5	1,624	116.2	53.56	19	1.75	6%	1
028.43	Manganese, ICP, Microwave (ppm)	0353	994.5	9.000	1,559	135.2	33.85	28	-4.18	18%	0
028.43	Manganese, ICP, Microwave (ppm)	0870	1,217	5.000	1,559	135.2	33.85	28	-2.53	11%	0
028.43	Manganese, ICP, Microwave (ppm)	0511	1,339	122.0	1,559	135.2	33.85	28	-1.63	7%	0
028.43	Manganese, ICP, Microwave (ppm)	0505	1,403	6.000	1,559	135.2	33.85	28	-1.15	5%	0
028.43	Manganese, ICP, Microwave (ppm)	0508	1,433	35.30	1,559	135.2	33.85	28	-0.93	4%	0
028.43	Manganese, ICP, Microwave (ppm)	0407	1,445	20.17	1,559	135.2	33.85	28	-0.84	4%	0
028.43	Manganese, ICP, Microwave (ppm)	0226	1,451	2.500	1,559	135.2	33.85	28	-0.80	3%	0
028.43	Manganese, ICP, Microwave (ppm)	0354	1,483	25.60	1,559	135.2	33.85	28	-0.56	2%	0
028.43	Manganese, ICP, Microwave (ppm)	0510	1,495	10.00	1,559	135.2	33.85	28	-0.47	2%	0
028.43	Manganese, ICP, Microwave (ppm)	0297	1,513	1.000	1,559	135.2	33.85	28	-0.34	1%	0
028.43	Manganese, ICP, Microwave (ppm)	0675	1,527	31.06	1,559	135.2	33.85	28	-0.24	1%	0
028.43	Manganese, ICP, Microwave (ppm)	0968	1,528	7.380	1,559	135.2	33.85	28	-0.23	1%	0
028.43	Manganese, ICP, Microwave (ppm)	0202	1,534	73.00	1,559	135.2	33.85	28	-0.19	1%	0
028.43	Manganese, ICP, Microwave (ppm)	2055	1,575	40.00	1,559	135.2	33.85	28	0.12	1%	0
028.43	Manganese, ICP, Microwave (ppm)	0035	1,583	69.00	1,559	135.2	33.85	28	0.17	1%	0
028.43	Manganese, ICP, Microwave (ppm)	0028	1,585	43.05	1,559	135.2	33.85	28	0.19	1%	0
028.43	Manganese, ICP, Microwave (ppm)	0017	1,594	111.7	1,559	135.2	33.85	28	0.26	1%	0
028.43	Manganese, ICP, Microwave (ppm)	0682	1,607	0.0000	1,559	135.2	33.85	28	0.35	2%	0
028.43	Manganese, ICP, Microwave (ppm)	0876	1,621	109.2	1,559	135.2	33.85	28	0.46	2%	0
028.43	Manganese, ICP, Microwave (ppm)	0083	1,635	40.78	1,559	135.2	33.85	28	0.56	2%	0
028.43	Manganese, ICP, Microwave (ppm)	0169	1,645	10.00	1,559	135.2	33.85	28	0.64	3%	0
028.43	Manganese, ICP, Microwave (ppm)	0610	1,645	50.00	1,559	135.2	33.85	28	0.64	3%	0
028.43	Manganese, ICP, Microwave (ppm)	0013	1,670	60.00	1,559	135.2	33.85	28	0.82	4%	0
028.43	Manganese, ICP, Microwave (ppm)	0027	1,684	21.63	1,559	135.2	33.85	28	0.93	4%	0
028.43	Manganese, ICP, Microwave (ppm)	0345	1,687	10.70	1,559	135.2	33.85	28	0.95	4%	0
028.43	Manganese, ICP, Microwave (ppm)	0098	1,717	29.00	1,559	135.2	33.85	28	1.17	5%	0
028.43	Manganese, ICP, Microwave (ppm)	0941	1,773	44.00	1,559	135.2	33.85	28	1.58	7%	0
028.43	Manganese, ICP, Microwave (ppm)	2326	1,822	39.00	1,559	135.2	33.85	28	1.94	8%	0
028.43	Manganese, ICP, Microwave (ppm)	2089	1,653	258.4	1,559	135.2	33.85	28	0.69	3%	1
028.44	Manganese, ICP, Dry ash (ppm)	2259	1,391	55.00	1,619	189.3	39.85	4			0



Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
028.44	Manganese, ICP, Dry ash (ppm)	0066	1,535	54.48	1,619	189.3	39.85	4			0
028.44	Manganese, ICP, Dry ash (ppm)	0164	1,770	20.00	1,619	189.3	39.85	4			0
028.44	Manganese, ICP, Dry ash (ppm)	2114	1,779	29.90	1,619	189.3	39.85	4			0
028.52	Manganese, ICP-MS, Open vessel (ppm)	2146	1,630	15.00				2			0
028.52	Manganese, ICP-MS, Open vessel (ppm)	0047	1,640	88.00				2			0
028.53	Manganese, ICP-MS, Microwave (ppm)	0939	1,734	111.0				3			0
028.53	Manganese, ICP-MS, Microwave (ppm)	0407	1,871	19.58				3			0
028.53	Manganese, ICP-MS, Microwave (ppm)	0043	2,017	51.22				3			0
028.99	Manganese, Miscellaneous (ppm)	0242	1,674	3.000				3			0
028.99	Manganese, Miscellaneous (ppm)	0100	1,677	59.00				3			0
028.99	Manganese, Miscellaneous (ppm)	0590	1,684	32.00				3			0
028.99	Manganese, Miscellaneous (ppm)	0123	1,522	20.00				3			2
031.01	Phosphorus, Photometric (%)	0590	1.060	0.0200	2.606	0.1632	0.0503	29	-9.47	30%	0
031.01	Phosphorus, Photometric (%)	0108	1.700	0.0400	2.606	0.1632	0.0503	29	-5.55	17%	0
031.01	Phosphorus, Photometric (%)	0689	2.300	0.1400	2.606	0.1632	0.0503	29	-1.88	6%	0
031.01	Phosphorus, Photometric (%)	2200	2.315	0.0300	2.606	0.1632	0.0503	29	-1.78	6%	0
031.01	Phosphorus, Photometric (%)	2199	2.445	0.0100	2.606	0.1632	0.0503	29	-0.99	3%	0
031.01	Phosphorus, Photometric (%)	2325	2.475	0.0100	2.606	0.1632	0.0503	29	-0.80	3%	0
031.01	Phosphorus, Photometric (%)	0646	2.495	0.0300	2.606	0.1632	0.0503	29	-0.68	2%	0
031.01	Phosphorus, Photometric (%)	2144	2.500	0.0400	2.606	0.1632	0.0503	29	-0.65	2%	0
031.01	Phosphorus, Photometric (%)	2006	2.534	0.0150	2.606	0.1632	0.0503	29	-0.45	1%	0
031.01	Phosphorus, Photometric (%)	0651	2.560	0.0000	2.606	0.1632	0.0503	29	-0.29	1%	0
031.01	Phosphorus, Photometric (%)	0622	2.562	0.0972	2.606	0.1632	0.0503	29	-0.27	1%	0
031.01	Phosphorus, Photometric (%)	0018	2.595	0.0500	2.606	0.1632	0.0503	29	-0.07	0%	0
031.01	Phosphorus, Photometric (%)	2392	2.605	0.0100	2.606	0.1632	0.0503	29	-0.01	0%	0
031.01	Phosphorus, Photometric (%)	2434	2.610	0.0000	2.606	0.1632	0.0503	29	0.02	0%	0
031.01	Phosphorus, Photometric (%)	0038	2.620	0.1000	2.606	0.1632	0.0503	29	0.08	0%	0
031.01	Phosphorus, Photometric (%)	2188	2.620	0.0000	2.606	0.1632	0.0503	29	0.08	0%	0
031.01	Phosphorus, Photometric (%)	0529	2.630	0.0200	2.606	0.1632	0.0503	29	0.15	0%	0
031.01	Phosphorus, Photometric (%)	0885	2.649	0.2164	2.606	0.1632	0.0503	29	0.26	1%	0
031.01	Phosphorus, Photometric (%)	0939	2.655	0.1100	2.606	0.1632	0.0503	29	0.30	1%	0
031.01	Phosphorus, Photometric (%)	0884	2.675	0.0700	2.606	0.1632	0.0503	29	0.42	1%	0
031.01	Phosphorus, Photometric (%)	2196	2.698	0.0000	2.606	0.1632	0.0503	29	0.56	2%	0
031.01	Phosphorus, Photometric (%)	2190	2.699	0.0499	2.606	0.1632	0.0503	29	0.57	2%	0
031.01	Phosphorus, Photometric (%)	2181	2.740	0.0600	2.606	0.1632	0.0503	29	0.82	3%	0
031.01	Phosphorus, Photometric (%)	2009	2.752	0.0119	2.606	0.1632	0.0503	29	0.90	3%	0
031.01	Phosphorus, Photometric (%)	2302	2.770	0.0000	2.606	0.1632	0.0503	29	1.00	3%	0
031.01	Phosphorus, Photometric (%)	2193	2.790	0.0000	2.606	0.1632	0.0503	29	1.13	4%	0
031.01	Phosphorus, Photometric (%)	0948	2.800	0.2200	2.606	0.1632	0.0503	29	1.19	4%	0
031.01	Phosphorus, Photometric (%)	2246	2.805	0.0100	2.606	0.1632	0.0503	29	1.22	4%	0
031.01	Phosphorus, Photometric (%)	0563	4.915	0.0131	2.606	0.1632	0.0503	29	14.14	44%	0
031.01	Phosphorus, Photometric (%)	0596	2.570	0.3000	2.606	0.1632	0.0503	29	-0.22	1%	1

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
031.03	Phosphorus, Autoanalyzer (%)	0169	2.630	0.0800				2			0
031.03	Phosphorus, Autoanalyzer (%)	0001	2.736	0.0040				2			0
031.41	Phosphorus, ICP, Dry ash (%)	0964	1.249	0.0971	2.599	0.1885	0.0865	19	-7.16	26%	0
031.41	Phosphorus, ICP, Dry ash (%)	0685	2.270	0.0200	2.599	0.1885	0.0865	19	-1.74	6%	0
031.41	Phosphorus, ICP, Dry ash (%)	0598	2.396	0.0032	2.599	0.1885	0.0865	19	-1.08	4%	0
031.41	Phosphorus, ICP, Dry ash (%)	0358	2.475	0.1900	2.599	0.1885	0.0865	19	-0.66	2%	0
031.41	Phosphorus, ICP, Dry ash (%)	0049	2.480	0.0600	2.599	0.1885	0.0865	19	-0.63	2%	0
031.41	Phosphorus, ICP, Dry ash (%)	0674	2.540	0.0000	2.599	0.1885	0.0865	19	-0.31	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	2259	2.548	0.2250	2.599	0.1885	0.0865	19	-0.27	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	0229	2.560	0.1600	2.599	0.1885	0.0865	19	-0.21	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	0619	2.565	0.0500	2.599	0.1885	0.0865	19	-0.18	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	0019	2.580	0.1400	2.599	0.1885	0.0865	19	-0.10	0%	0
031.41	Phosphorus, ICP, Dry ash (%)	0148	2.600	0.0400	2.599	0.1885	0.0865	19	0.01	0%	0
031.41	Phosphorus, ICP, Dry ash (%)	0407	2.607	0.1239	2.599	0.1885	0.0865	19	0.04	0%	0
031.41	Phosphorus, ICP, Dry ash (%)	0144	2.635	0.0700	2.599	0.1885	0.0865	19	0.19	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	0910	2.700	0.1600	2.599	0.1885	0.0865	19	0.54	2%	0
031.41	Phosphorus, ICP, Dry ash (%)	0171	2.720	0.0800	2.599	0.1885	0.0865	19	0.64	2%	0
031.41	Phosphorus, ICP, Dry ash (%)	0098	2.763	0.0650	2.599	0.1885	0.0865	19	0.87	3%	0
031.41	Phosphorus, ICP, Dry ash (%)	0074	2.825	0.0320	2.599	0.1885	0.0865	19	1.20	4%	0
031.41	Phosphorus, ICP, Dry ash (%)	0226	2.870	0.0200	2.599	0.1885	0.0865	19	1.44	5%	0
031.41	Phosphorus, ICP, Dry ash (%)	0004	3.010	0.0600	2.599	0.1885	0.0865	19	2.18	8%	0
031.42	Phosphorus, ICP, Open vessel (%)	0366	2.310	0.1000	2.630	0.1432	0.1078	20	-2.23	6%	0
031.42	Phosphorus, ICP, Open vessel (%)	2433	2.467	0.0097	2.630	0.1432	0.1078	20	-1.14	3%	0
031.42	Phosphorus, ICP, Open vessel (%)	0014	2.480	0.0000	2.630	0.1432	0.1078	20	-1.05	3%	0
031.42	Phosphorus, ICP, Open vessel (%)	0045	2.480	0.2600	2.630	0.1432	0.1078	20	-1.05	3%	0
031.42	Phosphorus, ICP, Open vessel (%)	0009	2.506	0.2222	2.630	0.1432	0.1078	20	-0.86	2%	0
031.42	Phosphorus, ICP, Open vessel (%)	0042	2.540	0.0600	2.630	0.1432	0.1078	20	-0.63	2%	0
031.42	Phosphorus, ICP, Open vessel (%)	0357	2.542	0.0322	2.630	0.1432	0.1078	20	-0.61	2%	0
031.42	Phosphorus, ICP, Open vessel (%)	0037	2.568	0.0860	2.630	0.1432	0.1078	20	-0.43	1%	0
031.42	Phosphorus, ICP, Open vessel (%)	0278	2.615	0.0300	2.630	0.1432	0.1078	20	-0.10	0%	0
031.42	Phosphorus, ICP, Open vessel (%)	0413	2.650	0.1000	2.630	0.1432	0.1078	20	0.14	0%	0
031.42	Phosphorus, ICP, Open vessel (%)	0504	2.660	0.2490	2.630	0.1432	0.1078	20	0.21	1%	0
031.42	Phosphorus, ICP, Open vessel (%)	0026	2.670	0.0870	2.630	0.1432	0.1078	20	0.28	1%	0
031.42	Phosphorus, ICP, Open vessel (%)	0726	2.685	0.0500	2.630	0.1432	0.1078	20	0.39	1%	0
031.42	Phosphorus, ICP, Open vessel (%)	0693	2.696	0.0350	2.630	0.1432	0.1078	20	0.46	1%	0
031.42	Phosphorus, ICP, Open vessel (%)	0047	2.700	0.0000	2.630	0.1432	0.1078	20	0.49	1%	0
031.42	Phosphorus, ICP, Open vessel (%)	2319	2.715	0.0300	2.630	0.1432	0.1078	20	0.59	2%	0
031.42	Phosphorus, ICP, Open vessel (%)	0263	2.734	0.0350	2.630	0.1432	0.1078	20	0.72	2%	0
031.42	Phosphorus, ICP, Open vessel (%)	0870	2.787	0.1140	2.630	0.1432	0.1078	20	1.10	3%	0
031.42	Phosphorus, ICP, Open vessel (%)	2375	3.065	0.1900	2.630	0.1432	0.1078	20	3.04	8%	0
031.42	Phosphorus, ICP, Open vessel (%)	2129	3.270	0.4350	2.630	0.1432	0.1078	20	4.47	12%	0
031.42	Phosphorus, ICP, Open vessel (%)	0692	2.520	1.720	2.630	0.1432	0.1078	20	-0.77	2%	1

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
031.43	Phosphorus, ICP, Microwave (%)	0964	1.244	0.0225	2.638	0.1867	0.1172	33	-7.47	26%	0
031.43	Phosphorus, ICP, Microwave (%)	0353	1.670	0.0000	2.638	0.1867	0.1172	33	-5.18	18%	0
031.43	Phosphorus, ICP, Microwave (%)	0870	2.169	0.1330	2.638	0.1867	0.1172	33	-2.51	9%	0
031.43	Phosphorus, ICP, Microwave (%)	0202	2.345	0.4500	2.638	0.1867	0.1172	33	-1.57	6%	0
031.43	Phosphorus, ICP, Microwave (%)	0682	2.350	0.0000	2.638	0.1867	0.1172	33	-1.54	5%	0
031.43	Phosphorus, ICP, Microwave (%)	0511	2.480	0.0600	2.638	0.1867	0.1172	33	-0.84	3%	0
031.43	Phosphorus, ICP, Microwave (%)	0505	2.536	0.0460	2.638	0.1867	0.1172	33	-0.54	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0297	2.545	0.0500	2.638	0.1867	0.1172	33	-0.50	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0510	2.545	0.0300	2.638	0.1867	0.1172	33	-0.50	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0876	2.550	0.1000	2.638	0.1867	0.1172	33	-0.47	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0083	2.570	0.0400	2.638	0.1867	0.1172	33	-0.36	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0407	2.572	0.2559	2.638	0.1867	0.1172	33	-0.35	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0028	2.595	0.3300	2.638	0.1867	0.1172	33	-0.23	1%	0
031.43	Phosphorus, ICP, Microwave (%)	2089	2.610	0.0400	2.638	0.1867	0.1172	33	-0.15	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0226	2.635	0.2100	2.638	0.1867	0.1172	33	-0.01	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0968	2.645	0.0340	2.638	0.1867	0.1172	33	0.04	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0027	2.648	0.0580	2.638	0.1867	0.1172	33	0.06	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0675	2.660	0.0200	2.638	0.1867	0.1172	33	0.12	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0035	2.680	0.1200	2.638	0.1867	0.1172	33	0.23	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0036	2.681	0.0561	2.638	0.1867	0.1172	33	0.23	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0098	2.686	0.0250	2.638	0.1867	0.1172	33	0.26	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0941	2.691	0.0870	2.638	0.1867	0.1172	33	0.28	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0017	2.708	0.3120	2.638	0.1867	0.1172	33	0.37	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0354	2.717	0.3000	2.638	0.1867	0.1172	33	0.43	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0038	2.740	0.4200	2.638	0.1867	0.1172	33	0.55	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0010	2.765	0.0900	2.638	0.1867	0.1172	33	0.68	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0610	2.780	0.4200	2.638	0.1867	0.1172	33	0.76	3%	0
031.43	Phosphorus, ICP, Microwave (%)	0001	2.800	0.0600	2.638	0.1867	0.1172	33	0.87	3%	0
031.43	Phosphorus, ICP, Microwave (%)	0345	2.825	0.0460	2.638	0.1867	0.1172	33	1.00	4%	0
031.43	Phosphorus, ICP, Microwave (%)	2276	2.836	0.0616	2.638	0.1867	0.1172	33	1.06	4%	0
031.43	Phosphorus, ICP, Microwave (%)	2055	2.976	0.1179	2.638	0.1867	0.1172	33	1.81	6%	0
031.43	Phosphorus, ICP, Microwave (%)	2326	3.050	0.1000	2.638	0.1867	0.1172	33	2.21	8%	0
031.43	Phosphorus, ICP, Microwave (%)	0848	3.485	0.0900	2.638	0.1867	0.1172	33	4.54	16%	0
031.44	Phosphorus, ICP, Dry ash (%)	0066	2.405	0.1100	2.507	0.0703	0.0773	4			0
031.44	Phosphorus, ICP, Dry ash (%)	0164	2.525	0.0500	2.507	0.0703	0.0773	4			0
031.44	Phosphorus, ICP, Dry ash (%)	2445	2.530	0.0000	2.507	0.0703	0.0773	4			0
031.44	Phosphorus, ICP, Dry ash (%)	2114	2.567	0.0720	2.507	0.0703	0.0773	4			0
031.44	Phosphorus, ICP, Dry ash (%)	0039	2.717	0.6660	2.507	0.0703	0.0773	4			1
031.52	Phosphorus, ICP-MS, Open vessel (%)	2146	2.690	0.1600				1			0
031.53	Phosphorus, ICP-MS, Microwave (%)	0407	2.843	0.0607				2			0
031.53	Phosphorus, ICP-MS, Microwave (%)	0939	2.850	0.2000				2			0
031.99	Phosphorus, Miscellaneous (%)	0889	1.910	0.0400	2.407	0.3149	0.1060	5			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
031.99	Phosphorus, Miscellaneous (%)	0676	2.345	0.0700	2.407	0.3149	0.1060	5		0	
031.99	Phosphorus, Miscellaneous (%)	0123	2.505	0.2300	2.407	0.3149	0.1060	5		0	
031.99	Phosphorus, Miscellaneous (%)	0242	2.515	0.1500	2.407	0.3149	0.1060	5		0	
031.99	Phosphorus, Miscellaneous (%)	0100	2.760	0.0400	2.407	0.3149	0.1060	5		0	
032.08	Potassium, Ion-selective electrode (%)	2434	1.110	0.0000				1		0	
032.31	Potassium, AAS, Dry ash (%)	0536	0.4800	0.0000	0.7365	0.1190	0.0198	7	-2.16	17%	0
032.31	Potassium, AAS, Dry ash (%)	0939	0.6500	0.0000	0.7365	0.1190	0.0198	7	-0.73	6%	0
032.31	Potassium, AAS, Dry ash (%)	0038	0.7050	0.0400	0.7365	0.1190	0.0198	7	-0.26	2%	0
032.31	Potassium, AAS, Dry ash (%)	0948	0.7755	0.0110	0.7365	0.1190	0.0198	7	0.33	3%	0
032.31	Potassium, AAS, Dry ash (%)	0529	0.7850	0.0100	0.7365	0.1190	0.0198	7	0.41	3%	0
032.31	Potassium, AAS, Dry ash (%)	2196	0.8400	0.0000	0.7365	0.1190	0.0198	7	0.87	7%	0
032.31	Potassium, AAS, Dry ash (%)	0563	0.8423	0.0181	0.7365	0.1190	0.0198	7	0.89	7%	0
032.32	Potassium, AAS, Open vessel (%)	2146	0.7950	0.0500				2		0	
032.32	Potassium, AAS, Open vessel (%)	0169	0.8000	0.0200				2		0	
032.41	Potassium, ICP, Dry ash (%)	0674	0.6000	0.0000	0.8035	0.1234	0.0466	18	-1.65	13%	0
032.41	Potassium, ICP, Dry ash (%)	0229	0.6800	0.0200	0.8035	0.1234	0.0466	18	-1.00	8%	0
032.41	Potassium, ICP, Dry ash (%)	0066	0.7100	0.0200	0.8035	0.1234	0.0466	18	-0.76	6%	0
032.41	Potassium, ICP, Dry ash (%)	0148	0.7105	0.0430	0.8035	0.1234	0.0466	18	-0.75	6%	0
032.41	Potassium, ICP, Dry ash (%)	0358	0.7200	0.0400	0.8035	0.1234	0.0466	18	-0.68	5%	0
032.41	Potassium, ICP, Dry ash (%)	0910	0.7400	0.0400	0.8035	0.1234	0.0466	18	-0.51	4%	0
032.41	Potassium, ICP, Dry ash (%)	0098	0.7450	0.1500	0.8035	0.1234	0.0466	18	-0.47	4%	0
032.41	Potassium, ICP, Dry ash (%)	0049	0.7500	0.0200	0.8035	0.1234	0.0466	18	-0.43	3%	0
032.41	Potassium, ICP, Dry ash (%)	0171	0.7800	0.0400	0.8035	0.1234	0.0466	18	-0.19	1%	0
032.41	Potassium, ICP, Dry ash (%)	0074	0.7900	0.0200	0.8035	0.1234	0.0466	18	-0.11	1%	0
032.41	Potassium, ICP, Dry ash (%)	2259	0.8025	0.1690	0.8035	0.1234	0.0466	18	-0.01	0%	0
032.41	Potassium, ICP, Dry ash (%)	0144	0.8250	0.0100	0.8035	0.1234	0.0466	18	0.17	1%	0
032.41	Potassium, ICP, Dry ash (%)	0598	0.8457	0.0175	0.8035	0.1234	0.0466	18	0.34	3%	0
032.41	Potassium, ICP, Dry ash (%)	0019	0.8950	0.0900	0.8035	0.1234	0.0466	18	0.74	6%	0
032.41	Potassium, ICP, Dry ash (%)	0407	0.9090	0.2078	0.8035	0.1234	0.0466	18	0.85	7%	0
032.41	Potassium, ICP, Dry ash (%)	0004	0.9650	0.0500	0.8035	0.1234	0.0466	18	1.31	10%	0
032.41	Potassium, ICP, Dry ash (%)	0226	1.100	0.0200	0.8035	0.1234	0.0466	18	2.40	18%	0
032.41	Potassium, ICP, Dry ash (%)	0964	1.781	0.0551	0.8035	0.1234	0.0466	18	7.93	61%	0
032.42	Potassium, ICP, Open vessel (%)	0870	0.6939	0.0178	0.7769	0.0673	0.0398	17	-1.23	5%	0
032.42	Potassium, ICP, Open vessel (%)	2129	0.6981	0.0178	0.7769	0.0673	0.0398	17	-1.17	5%	0
032.42	Potassium, ICP, Open vessel (%)	2433	0.6983	0.0023	0.7769	0.0673	0.0398	17	-1.17	5%	0
032.42	Potassium, ICP, Open vessel (%)	0263	0.7230	0.0120	0.7769	0.0673	0.0398	17	-0.80	3%	0
032.42	Potassium, ICP, Open vessel (%)	0357	0.7383	0.0133	0.7769	0.0673	0.0398	17	-0.57	2%	0
032.42	Potassium, ICP, Open vessel (%)	0042	0.7420	0.0060	0.7769	0.0673	0.0398	17	-0.52	2%	0
032.42	Potassium, ICP, Open vessel (%)	0413	0.7600	0.0600	0.7769	0.0673	0.0398	17	-0.25	1%	0
032.42	Potassium, ICP, Open vessel (%)	2375	0.7700	0.0600	0.7769	0.0673	0.0398	17	-0.10	0%	0
032.42	Potassium, ICP, Open vessel (%)	0045	0.7750	0.0900	0.7769	0.0673	0.0398	17	-0.03	0%	0
032.42	Potassium, ICP, Open vessel (%)	0726	0.7750	0.0100	0.7769	0.0673	0.0398	17	-0.03	0%	0



Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
032.42	Potassium, ICP, Open vessel (%)	0037	0.7755	0.0070	0.7769	0.0673	0.0398	17	-0.02	0%	0
032.42	Potassium, ICP, Open vessel (%)	0009	0.8097	0.0637	0.7769	0.0673	0.0398	17	0.49	2%	0
032.42	Potassium, ICP, Open vessel (%)	0504	0.8125	0.0190	0.7769	0.0673	0.0398	17	0.53	2%	0
032.42	Potassium, ICP, Open vessel (%)	0692	0.8250	0.1700	0.7769	0.0673	0.0398	17	0.71	3%	0
032.42	Potassium, ICP, Open vessel (%)	0278	0.8550	0.0300	0.7769	0.0673	0.0398	17	1.16	5%	0
032.42	Potassium, ICP, Open vessel (%)	0366	1.225	0.0700	0.7769	0.0673	0.0398	17	6.66	29%	0
032.42	Potassium, ICP, Open vessel (%)	0026	1.316	0.1030	0.7769	0.0673	0.0398	17	8.00	35%	0
032.42	Potassium, ICP, Open vessel (%)	0693	0.9845	0.4590	0.7769	0.0673	0.0398	17	3.08	13%	1
032.43	Potassium, ICP, Microwave (%)	0353	0.4800	0.0200	0.7726	0.0797	0.0204	32	-3.67	19%	0
032.43	Potassium, ICP, Microwave (%)	0226	0.6450	0.0100	0.7726	0.0797	0.0204	32	-1.60	8%	0
032.43	Potassium, ICP, Microwave (%)	0511	0.6700	0.0200	0.7726	0.0797	0.0204	32	-1.29	7%	0
032.43	Potassium, ICP, Microwave (%)	0028	0.6850	0.0700	0.7726	0.0797	0.0204	32	-1.10	6%	0
032.43	Potassium, ICP, Microwave (%)	0876	0.7000	0.0000	0.7726	0.0797	0.0204	32	-0.91	5%	0
032.43	Potassium, ICP, Microwave (%)	0354	0.7170	0.0020	0.7726	0.0797	0.0204	32	-0.70	4%	0
032.43	Potassium, ICP, Microwave (%)	0202	0.7200	0.0600	0.7726	0.0797	0.0204	32	-0.66	3%	0
032.43	Potassium, ICP, Microwave (%)	0010	0.7250	0.0100	0.7726	0.0797	0.0204	32	-0.60	3%	0
032.43	Potassium, ICP, Microwave (%)	0013	0.7250	0.0300	0.7726	0.0797	0.0204	32	-0.60	3%	0
032.43	Potassium, ICP, Microwave (%)	0036	0.7327	0.0061	0.7726	0.0797	0.0204	32	-0.50	3%	0
032.43	Potassium, ICP, Microwave (%)	0083	0.7360	0.0280	0.7726	0.0797	0.0204	32	-0.46	2%	0
032.43	Potassium, ICP, Microwave (%)	2089	0.7400	0.0000	0.7726	0.0797	0.0204	32	-0.41	2%	0
032.43	Potassium, ICP, Microwave (%)	0682	0.7500	0.0000	0.7726	0.0797	0.0204	32	-0.28	1%	0
032.43	Potassium, ICP, Microwave (%)	0941	0.7560	0.0067	0.7726	0.0797	0.0204	32	-0.21	1%	0
032.43	Potassium, ICP, Microwave (%)	0345	0.7575	0.0110	0.7726	0.0797	0.0204	32	-0.19	1%	0
032.43	Potassium, ICP, Microwave (%)	0098	0.7600	0.0200	0.7726	0.0797	0.0204	32	-0.16	1%	0
032.43	Potassium, ICP, Microwave (%)	0610	0.7650	0.0100	0.7726	0.0797	0.0204	32	-0.09	0%	0
032.43	Potassium, ICP, Microwave (%)	0035	0.7750	0.0100	0.7726	0.0797	0.0204	32	0.03	0%	0
032.43	Potassium, ICP, Microwave (%)	2055	0.7781	0.0006	0.7726	0.0797	0.0204	32	0.07	0%	0
032.43	Potassium, ICP, Microwave (%)	0510	0.7800	0.0600	0.7726	0.0797	0.0204	32	0.09	0%	0
032.43	Potassium, ICP, Microwave (%)	0407	0.7824	0.0456	0.7726	0.0797	0.0204	32	0.12	1%	0
032.43	Potassium, ICP, Microwave (%)	0508	0.7936	0.0408	0.7726	0.0797	0.0204	32	0.26	1%	0
032.43	Potassium, ICP, Microwave (%)	0017	0.8018	0.0176	0.7726	0.0797	0.0204	32	0.37	2%	0
032.43	Potassium, ICP, Microwave (%)	0675	0.8100	0.0200	0.7726	0.0797	0.0204	32	0.47	2%	0
032.43	Potassium, ICP, Microwave (%)	0297	0.8150	0.0100	0.7726	0.0797	0.0204	32	0.53	3%	0
032.43	Potassium, ICP, Microwave (%)	0870	0.8220	0.0327	0.7726	0.0797	0.0204	32	0.62	3%	0
032.43	Potassium, ICP, Microwave (%)	0027	0.8705	0.0230	0.7726	0.0797	0.0204	32	1.23	6%	0
032.43	Potassium, ICP, Microwave (%)	2326	0.8800	0.0200	0.7726	0.0797	0.0204	32	1.35	7%	0
032.43	Potassium, ICP, Microwave (%)	0505	0.9000	0.0400	0.7726	0.0797	0.0204	32	1.60	8%	0
032.43	Potassium, ICP, Microwave (%)	0968	1.089	0.0030	0.7726	0.0797	0.0204	32	3.97	20%	0
032.43	Potassium, ICP, Microwave (%)	2445	1.145	0.0100	0.7726	0.0797	0.0204	32	4.68	24%	0
032.43	Potassium, ICP, Microwave (%)	0964	1.695	0.0108	0.7726	0.0797	0.0204	32	11.57	60%	0
032.44	Potassium, ICP, Dry ash (%)	0164	0.7070	0.0300				3			0
032.44	Potassium, ICP, Dry ash (%)	0039	0.7892	0.0202				3			0

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			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
032.44	Potassium, ICP, Dry ash (%)	2114	0.8603	0.0154				3			0
032.52	Potassium, ICP-MS, Open vessel (%)	2319	0.7850	0.0100				1			0
032.53	Potassium, ICP-MS, Microwave (%)	0939	0.7150	0.0100				2			0
032.53	Potassium, ICP-MS, Microwave (%)	0407	0.8046	0.1236				2			0
032.99	Potassium, Miscellaneous (%)	0001	0.7060	0.0100	0.7810	0.0659	0.0325	6	-1.14	5%	0
032.99	Potassium, Miscellaneous (%)	0123	0.7600	0.0000	0.7810	0.0659	0.0325	6	-0.32	1%	0
032.99	Potassium, Miscellaneous (%)	0242	0.7600	0.0000	0.7810	0.0659	0.0325	6	-0.32	1%	0
032.99	Potassium, Miscellaneous (%)	0100	0.7750	0.0100	0.7810	0.0659	0.0325	6	-0.09	0%	0
032.99	Potassium, Miscellaneous (%)	0590	0.8050	0.0300	0.7810	0.0659	0.0325	6	0.36	2%	0
032.99	Potassium, Miscellaneous (%)	0889	0.9100	0.0800	0.7810	0.0659	0.0325	6	1.96	8%	0
033.00	Salt as chloride, Sol Cl (%)	0366	10.25	0.3000	16.33	1.042	0.2248	12	-5.84	19%	0
033.00	Salt as chloride, Sol Cl (%)	0353	15.28	0.0800	16.33	1.042	0.2248	12	-1.01	3%	0
033.00	Salt as chloride, Sol Cl (%)	2193	15.52	0.1200	16.33	1.042	0.2248	12	-0.78	2%	0
033.00	Salt as chloride, Sol Cl (%)	0539	15.58	0.7700	16.33	1.042	0.2248	12	-0.72	2%	0
033.00	Salt as chloride, Sol Cl (%)	0675	16.25	0.1000	16.33	1.042	0.2248	12	-0.08	0%	0
033.00	Salt as chloride, Sol Cl (%)	0693	16.34	0.0330	16.33	1.042	0.2248	12	0.01	0%	0
033.00	Salt as chloride, Sol Cl (%)	2337	16.46	0.0200	16.33	1.042	0.2248	12	0.13	0%	0
033.00	Salt as chloride, Sol Cl (%)	0511	16.48	0.3600	16.33	1.042	0.2248	12	0.14	0%	0
033.00	Salt as chloride, Sol Cl (%)	0885	16.88	0.3300	16.33	1.042	0.2248	12	0.52	2%	0
033.00	Salt as chloride, Sol Cl (%)	2009	17.24	0.0813	16.33	1.042	0.2248	12	0.87	3%	0
033.00	Salt as chloride, Sol Cl (%)	2196	17.28	0.0000	16.33	1.042	0.2248	12	0.91	3%	0
033.00	Salt as chloride, Sol Cl (%)	0045	18.35	0.5000	16.33	1.042	0.2248	12	1.94	6%	0
033.01	Salt as chloride, Poten Cl (%)	0682	15.30	0.0000	16.86	0.6410	0.3032	20	-2.43	5%	0
033.01	Salt as chloride, Poten Cl (%)	0004	15.71	0.3000	16.86	0.6410	0.3032	20	-1.79	3%	0
033.01	Salt as chloride, Poten Cl (%)	0413	16.20	0.6000	16.86	0.6410	0.3032	20	-1.02	2%	0
033.01	Salt as chloride, Poten Cl (%)	0407	16.27	0.0920	16.86	0.6410	0.3032	20	-0.91	2%	0
033.01	Salt as chloride, Poten Cl (%)	0619	16.40	0.8000	16.86	0.6410	0.3032	20	-0.71	1%	0
033.01	Salt as chloride, Poten Cl (%)	0354	16.41	0.0110	16.86	0.6410	0.3032	20	-0.70	1%	0
033.01	Salt as chloride, Poten Cl (%)	0083	16.59	0.0400	16.86	0.6410	0.3032	20	-0.41	1%	0
033.01	Salt as chloride, Poten Cl (%)	0098	16.70	0.5100	16.86	0.6410	0.3032	20	-0.25	0%	0
033.01	Salt as chloride, Poten Cl (%)	2190	16.74	0.6699	16.86	0.6410	0.3032	20	-0.19	0%	0
033.01	Salt as chloride, Poten Cl (%)	0164	16.80	0.2000	16.86	0.6410	0.3032	20	-0.09	0%	0
033.01	Salt as chloride, Poten Cl (%)	2319	16.93	0.1200	16.86	0.6410	0.3032	20	0.12	0%	0
033.01	Salt as chloride, Poten Cl (%)	0010	16.99	0.1100	16.86	0.6410	0.3032	20	0.20	0%	0
033.01	Salt as chloride, Poten Cl (%)	0036	17.04	0.3237	16.86	0.6410	0.3032	20	0.29	1%	0
033.01	Salt as chloride, Poten Cl (%)	0148	17.14	0.1500	16.86	0.6410	0.3032	20	0.44	1%	0
033.01	Salt as chloride, Poten Cl (%)	0019	17.37	0.5300	16.86	0.6410	0.3032	20	0.80	2%	0
033.01	Salt as chloride, Poten Cl (%)	0226	17.38	0.1200	16.86	0.6410	0.3032	20	0.82	2%	0
033.01	Salt as chloride, Poten Cl (%)	2268	17.45	0.6500	16.86	0.6410	0.3032	20	0.92	2%	0
033.01	Salt as chloride, Poten Cl (%)	0510	17.50	0.1480	16.86	0.6410	0.3032	20	1.01	2%	0
033.01	Salt as chloride, Poten Cl (%)	2375	17.61	0.0000	16.86	0.6410	0.3032	20	1.18	2%	0
033.01	Salt as chloride, Poten Cl (%)	0596	19.19	0.1700	16.86	0.6410	0.3032	20	3.63	7%	0

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			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
033.03	Salt as chloride, Quantab (%)	2076	10.16	0.0000				3		0	
033.03	Salt as chloride, Quantab (%)	0505	16.80	0.0100				3		0	
033.03	Salt as chloride, Quantab (%)	0726	18.53	1.650				3		0	
033.05	Salt as chloride, Ion Sel Electrode (%)	2433	10.30	0.0320	14.65	3.232	0.0507	4		0	
033.05	Salt as chloride, Ion Sel Electrode (%)	2434	14.20	0.0000	14.65	3.232	0.0507	4		0	
033.05	Salt as chloride, Ion Sel Electrode (%)	0689	16.48	0.0600	14.65	3.232	0.0507	4		0	
033.05	Salt as chloride, Ion Sel Electrode (%)	0171	17.63	0.0600	14.65	3.232	0.0507	4		0	
033.99	Salt, Miscellaneous (%)	2129	15.85	0.3158	16.89	0.8642	0.4524	9	-1.21	3%	0
033.99	Salt, Miscellaneous (%)	0042	16.15	0.5000	16.89	0.8642	0.4524	9	-0.86	2%	0
033.99	Salt, Miscellaneous (%)	0017	16.29	0.7921	16.89	0.8642	0.4524	9	-0.70	2%	0
033.99	Salt, Miscellaneous (%)	2246	16.46	0.3100	16.89	0.8642	0.4524	9	-0.51	1%	0
033.99	Salt, Miscellaneous (%)	0027	17.05	0.2990	16.89	0.8642	0.4524	9	0.18	0%	0
033.99	Salt, Miscellaneous (%)	0358	17.14	0.6800	16.89	0.8642	0.4524	9	0.29	1%	0
033.99	Salt, Miscellaneous (%)	2144	17.38	0.0700	16.89	0.8642	0.4524	9	0.56	1%	0
033.99	Salt, Miscellaneous (%)	2326	17.56	0.1300	16.89	0.8642	0.4524	9	0.77	2%	0
033.99	Salt, Miscellaneous (%)	0904	19.39	1.280	16.89	0.8642	0.4524	9	2.89	7%	0
034.01	Selenium, Total (Se), Fluor (ppm)	0038	20.10	0.8000				1		0	
034.04	Selenium, Total (Se), AA, Hydride (ppm)	0904	7.430	1.000				3		0	
034.04	Selenium, Total (Se), AA, Hydride (ppm)	0171	14.25	0.1000				3		0	
034.04	Selenium, Total (Se), AA, Hydride (ppm)	0169	19.05	0.1000				3		0	
034.04	Selenium, Total (Se), AA, Hydride (ppm)	0045	15.75	6.900				3		1	
034.34	Selenium, Total (Se), AAS, Graphite furnace (p	0596	19.25	0.9000				1		0	
034.41	Selenium, Total (Se), ICP, Dry ash (ppm)	0619	16.60	4.000				3		0	
034.41	Selenium, Total (Se), ICP, Dry ash (ppm)	2259	16.66	0.2300				3		0	
034.41	Selenium, Total (Se), ICP, Dry ash (ppm)	0148	18.68	3.380				3		0	
034.42	Selenium, Total (Se), ICP, Open vessel (ppm)	0692	18.06	0.6200				3		0	
034.42	Selenium, Total (Se), ICP, Open vessel (ppm)	0160	19.20	1.200				3		0	
034.42	Selenium, Total (Se), ICP, Open vessel (ppm)	0042	20.10	0.4000				3		0	
034.43	Selenium, Total (Se), ICP, Microwave (ppm)	2114	11.80	0.7100	20.08	3.294	0.5863	12	-2.52	21%	0
034.43	Selenium, Total (Se), ICP, Microwave (ppm)	0723	16.26	0.1500	20.08	3.294	0.5863	12	-1.16	10%	0
034.43	Selenium, Total (Se), ICP, Microwave (ppm)	0505	18.52	0.1900	20.08	3.294	0.5863	12	-0.48	4%	0
034.43	Selenium, Total (Se), ICP, Microwave (ppm)	0066	18.52	0.6200	20.08	3.294	0.5863	12	-0.47	4%	0
034.43	Selenium, Total (Se), ICP, Microwave (ppm)	0968	19.08	0.1600	20.08	3.294	0.5863	12	-0.31	3%	0
034.43	Selenium, Total (Se), ICP, Microwave (ppm)	0941	19.40	1.800	20.08	3.294	0.5863	12	-0.21	2%	0
034.43	Selenium, Total (Se), ICP, Microwave (ppm)	0508	20.01	0.9250	20.08	3.294	0.5863	12	-0.02	0%	0
034.43	Selenium, Total (Se), ICP, Microwave (ppm)	0610	21.05	2.100	20.08	3.294	0.5863	12	0.29	2%	0
034.43	Selenium, Total (Se), ICP, Microwave (ppm)	0027	21.31	0.3700	20.08	3.294	0.5863	12	0.37	3%	0
034.43	Selenium, Total (Se), ICP, Microwave (ppm)	0036	23.05	0.3000	20.08	3.294	0.5863	12	0.90	7%	0
034.43	Selenium, Total (Se), ICP, Microwave (ppm)	0682	24.30	0.0000	20.08	3.294	0.5863	12	1.28	10%	0
034.43	Selenium, Total (Se), ICP, Microwave (ppm)	2445	24.37	0.3100	20.08	3.294	0.5863	12	1.30	11%	0
034.52	Selenium, Total (Se), ICP-MS, Open vessel (p	0910	16.78	1.110	19.17	2.194	1.083	4		0	
034.52	Selenium, Total (Se), ICP-MS, Open vessel (p	0186	18.09	1.010	19.17	2.194	1.083	4		0	

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			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
034.52	Selenium, Total (Se), ICP-MS, Open vessel (ppm)	0047	20.06	1.480	19.17	2.194	1.083	4			0
034.52	Selenium, Total (Se), ICP-MS, Open vessel (ppm)	2146	21.77	0.7300	19.17	2.194	1.083	4			0
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	0009	17.76	0.7942	21.59	3.202	0.8711	7	-1.19	9%	0
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	0013	18.85	0.1000	21.59	3.202	0.8711	7	-0.85	6%	0
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	0278	20.26	0.1500	21.59	3.202	0.8711	7	-0.42	3%	0
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	0560	22.39	0.6748	21.59	3.202	0.8711	7	0.25	2%	0
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	0939	22.61	1.440	21.59	3.202	0.8711	7	0.32	2%	0
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	0164	23.25	1.300	21.59	3.202	0.8711	7	0.52	4%	0
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	0407	26.00	1.639	21.59	3.202	0.8711	7	1.38	10%	0
035.05	Sodium, Flame Emission (%)	0108	0.2750	0.0100				1			0
035.31	Sodium, AAS, Dry ash (%)	0622	4.888	0.0153	6.236	1.171	0.1394	7	-1.15	11%	0
035.31	Sodium, AAS, Dry ash (%)	0536	5.140	0.0600	6.236	1.171	0.1394	7	-0.94	9%	0
035.31	Sodium, AAS, Dry ash (%)	2196	6.070	0.0000	6.236	1.171	0.1394	7	-0.14	1%	0
035.31	Sodium, AAS, Dry ash (%)	0939	6.415	0.2700	6.236	1.171	0.1394	7	0.15	1%	0
035.31	Sodium, AAS, Dry ash (%)	0563	6.507	0.0138	6.236	1.171	0.1394	7	0.23	2%	0
035.31	Sodium, AAS, Dry ash (%)	0948	6.641	0.0710	6.236	1.171	0.1394	7	0.35	3%	0
035.31	Sodium, AAS, Dry ash (%)	0529	10.06	0.4060	6.236	1.171	0.1394	7	3.26	31%	0
035.32	Sodium, AAS, Open vessel (%)	0169	6.070	0.1400				2			0
035.32	Sodium, AAS, Open vessel (%)	2146	6.110	0.0600				2			0
035.41	Sodium, ICP, Dry ash (%)	0049	5.985	0.0700	6.575	0.4114	0.2295	16	-1.44	4%	0
035.41	Sodium, ICP, Dry ash (%)	0598	6.063	0.0312	6.575	0.4114	0.2295	16	-1.25	4%	0
035.41	Sodium, ICP, Dry ash (%)	0358	6.210	1.340	6.575	0.4114	0.2295	16	-0.89	3%	0
035.41	Sodium, ICP, Dry ash (%)	2114	6.222	0.1303	6.575	0.4114	0.2295	16	-0.86	3%	0
035.41	Sodium, ICP, Dry ash (%)	0148	6.410	0.2200	6.575	0.4114	0.2295	16	-0.40	1%	0
035.41	Sodium, ICP, Dry ash (%)	0066	6.415	0.0900	6.575	0.4114	0.2295	16	-0.39	1%	0
035.41	Sodium, ICP, Dry ash (%)	0910	6.430	0.6000	6.575	0.4114	0.2295	16	-0.35	1%	0
035.41	Sodium, ICP, Dry ash (%)	0229	6.555	0.1100	6.575	0.4114	0.2295	16	-0.05	0%	0
035.41	Sodium, ICP, Dry ash (%)	0619	6.615	0.0100	6.575	0.4114	0.2295	16	0.10	0%	0
035.41	Sodium, ICP, Dry ash (%)	0164	6.685	0.0100	6.575	0.4114	0.2295	16	0.27	1%	0
035.41	Sodium, ICP, Dry ash (%)	0039	6.691	1.376	6.575	0.4114	0.2295	16	0.28	1%	0
035.41	Sodium, ICP, Dry ash (%)	0004	6.725	0.3700	6.575	0.4114	0.2295	16	0.36	1%	0
035.41	Sodium, ICP, Dry ash (%)	0098	6.825	0.0100	6.575	0.4114	0.2295	16	0.61	2%	0
035.41	Sodium, ICP, Dry ash (%)	0226	7.060	0.1800	6.575	0.4114	0.2295	16	1.18	4%	0
035.41	Sodium, ICP, Dry ash (%)	0144	7.125	0.1500	6.575	0.4114	0.2295	16	1.34	4%	0
035.41	Sodium, ICP, Dry ash (%)	0407	7.201	0.4612	6.575	0.4114	0.2295	16	1.52	5%	0
035.41	Sodium, ICP, Dry ash (%)	0964	0.2419	0.0046	6.575	0.4114	0.2295	16	-15.39	48%	2
035.42	Sodium, ICP, Open vessel (%)	0278	5.820	0.3600	6.527	0.4900	0.2879	17	-1.44	5%	0
035.42	Sodium, ICP, Open vessel (%)	0160	6.025	0.1900	6.527	0.4900	0.2879	17	-1.02	4%	0
035.42	Sodium, ICP, Open vessel (%)	0045	6.085	0.5900	6.527	0.4900	0.2879	17	-0.90	3%	0
035.42	Sodium, ICP, Open vessel (%)	0504	6.100	0.3200	6.527	0.4900	0.2879	17	-0.87	3%	0
035.42	Sodium, ICP, Open vessel (%)	0366	6.185	0.1300	6.527	0.4900	0.2879	17	-0.70	3%	0
035.42	Sodium, ICP, Open vessel (%)	0357	6.309	0.0201	6.527	0.4900	0.2879	17	-0.45	2%	0



Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
035.42	Sodium, ICP, Open vessel (%)	0042	6.365	0.1900	6.527	0.4900	0.2879	17	-0.33	1%	0
035.42	Sodium, ICP, Open vessel (%)	2375	6.365	0.1500	6.527	0.4900	0.2879	17	-0.33	1%	0
035.42	Sodium, ICP, Open vessel (%)	2129	6.400	0.4960	6.527	0.4900	0.2879	17	-0.26	1%	0
035.42	Sodium, ICP, Open vessel (%)	0870	6.585	0.0490	6.527	0.4900	0.2879	17	0.12	0%	0
035.42	Sodium, ICP, Open vessel (%)	2319	6.740	0.1800	6.527	0.4900	0.2879	17	0.43	2%	0
035.42	Sodium, ICP, Open vessel (%)	2433	6.742	0.1088	6.527	0.4900	0.2879	17	0.44	2%	0
035.42	Sodium, ICP, Open vessel (%)	0263	6.810	0.0230	6.527	0.4900	0.2879	17	0.58	2%	0
035.42	Sodium, ICP, Open vessel (%)	0693	6.913	0.8090	6.527	0.4900	0.2879	17	0.79	3%	0
035.42	Sodium, ICP, Open vessel (%)	0037	6.997	0.5090	6.527	0.4900	0.2879	17	0.96	4%	0
035.42	Sodium, ICP, Open vessel (%)	0413	7.310	0.3400	6.527	0.4900	0.2879	17	1.60	6%	0
035.42	Sodium, ICP, Open vessel (%)	0692	7.805	0.5900	6.527	0.4900	0.2879	17	2.61	10%	0
035.43	Sodium, ICP, Microwave (%)	0964	0.2197	0.0008	6.392	0.5955	0.1445	24	-10.37	48%	0
035.43	Sodium, ICP, Microwave (%)	0353	4.245	0.1500	6.392	0.5955	0.1445	24	-3.61	17%	0
035.43	Sodium, ICP, Microwave (%)	0297	5.560	0.0400	6.392	0.5955	0.1445	24	-1.40	7%	0
035.43	Sodium, ICP, Microwave (%)	0870	5.578	0.1610	6.392	0.5955	0.1445	24	-1.37	6%	0
035.43	Sodium, ICP, Microwave (%)	0202	5.755	0.2500	6.392	0.5955	0.1445	24	-1.07	5%	0
035.43	Sodium, ICP, Microwave (%)	0226	6.065	0.1300	6.392	0.5955	0.1445	24	-0.55	3%	0
035.43	Sodium, ICP, Microwave (%)	0354	6.146	0.0680	6.392	0.5955	0.1445	24	-0.41	2%	0
035.43	Sodium, ICP, Microwave (%)	0682	6.230	0.0000	6.392	0.5955	0.1445	24	-0.27	1%	0
035.43	Sodium, ICP, Microwave (%)	0968	6.263	0.1000	6.392	0.5955	0.1445	24	-0.22	1%	0
035.43	Sodium, ICP, Microwave (%)	0035	6.285	0.1300	6.392	0.5955	0.1445	24	-0.18	1%	0
035.43	Sodium, ICP, Microwave (%)	0941	6.450	0.0300	6.392	0.5955	0.1445	24	0.10	0%	0
035.43	Sodium, ICP, Microwave (%)	0675	6.470	0.1200	6.392	0.5955	0.1445	24	0.13	1%	0
035.43	Sodium, ICP, Microwave (%)	0511	6.485	0.1300	6.392	0.5955	0.1445	24	0.16	1%	0
035.43	Sodium, ICP, Microwave (%)	0083	6.520	0.2400	6.392	0.5955	0.1445	24	0.21	1%	0
035.43	Sodium, ICP, Microwave (%)	0098	6.555	0.2100	6.392	0.5955	0.1445	24	0.27	1%	0
035.43	Sodium, ICP, Microwave (%)	2089	6.630	0.0200	6.392	0.5955	0.1445	24	0.40	2%	0
035.43	Sodium, ICP, Microwave (%)	0876	6.700	0.2000	6.392	0.5955	0.1445	24	0.52	2%	0
035.43	Sodium, ICP, Microwave (%)	2055	6.702	0.2454	6.392	0.5955	0.1445	24	0.52	2%	0
035.43	Sodium, ICP, Microwave (%)	0505	6.760	0.4600	6.392	0.5955	0.1445	24	0.62	3%	0
035.43	Sodium, ICP, Microwave (%)	0610	6.775	0.0700	6.392	0.5955	0.1445	24	0.64	3%	0
035.43	Sodium, ICP, Microwave (%)	2326	7.000	0.4000	6.392	0.5955	0.1445	24	1.02	5%	0
035.43	Sodium, ICP, Microwave (%)	0345	7.058	0.0950	6.392	0.5955	0.1445	24	1.12	5%	0
035.43	Sodium, ICP, Microwave (%)	0407	7.205	0.2931	6.392	0.5955	0.1445	24	1.36	6%	0
035.43	Sodium, ICP, Microwave (%)	0510	7.229	0.0220	6.392	0.5955	0.1445	24	1.40	7%	0
035.52	Sodium, ICP-MS, Open vessel (%)	2146	6.215	0.1700				1			0
035.53	Sodium, ICP-MS, Microwave (%)	0407	5.813	0.4810				2			0
035.53	Sodium, ICP-MS, Microwave (%)	0939	6.585	0.0700				2			0
035.99	Sodium, Miscellaneous (%)	0590	6.350	0.2000				3			0
035.99	Sodium, Miscellaneous (%)	0242	6.570	0.0000				3			0
035.99	Sodium, Miscellaneous (%)	0123	7.115	0.0700				3			0
035.99	Sodium, Miscellaneous (%)	0100	6.680	0.5200				3			1

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
035.99	Sodium, Miscellaneous (%)	0889	0.7225	0.0250				3			2
036.00	Sulfur, Gravimetric (%)	0038	0.7070	0.0000				1			0
036.04	Sulfur, LECO (%)	0148	0.5410	0.0180				3			0
036.04	Sulfur, LECO (%)	0610	0.5700	0.0000				3			0
036.04	Sulfur, LECO (%)	0226	0.5750	0.0100				3			0
036.04	Sulfur, LECO (%)	0001	0.9600	0.0380				3			2
036.42	Sulfur, ICP, Open vessel (%)	0910	0.4710	0.0436	0.6437	0.0939	0.0249	16	-1.84	13%	0
036.42	Sulfur, ICP, Open vessel (%)	2129	0.5285	0.1606	0.6437	0.0939	0.0249	16	-1.23	9%	0
036.42	Sulfur, ICP, Open vessel (%)	0692	0.5550	0.2100	0.6437	0.0939	0.0249	16	-0.94	7%	0
036.42	Sulfur, ICP, Open vessel (%)	0708	0.5740	0.0040	0.6437	0.0939	0.0249	16	-0.74	5%	0
036.42	Sulfur, ICP, Open vessel (%)	0042	0.5875	0.0030	0.6437	0.0939	0.0249	16	-0.60	4%	0
036.42	Sulfur, ICP, Open vessel (%)	0366	0.6050	0.0100	0.6437	0.0939	0.0249	16	-0.41	3%	0
036.42	Sulfur, ICP, Open vessel (%)	2375	0.6350	0.0100	0.6437	0.0939	0.0249	16	-0.09	1%	0
036.42	Sulfur, ICP, Open vessel (%)	0407	0.6500	0.0033	0.6437	0.0939	0.0249	16	0.07	0%	0
036.42	Sulfur, ICP, Open vessel (%)	0045	0.6500	0.1400	0.6437	0.0939	0.0249	16	0.07	0%	0
036.42	Sulfur, ICP, Open vessel (%)	0037	0.6520	0.0180	0.6437	0.0939	0.0249	16	0.09	1%	0
036.42	Sulfur, ICP, Open vessel (%)	0357	0.6633	0.0064	0.6437	0.0939	0.0249	16	0.21	2%	0
036.42	Sulfur, ICP, Open vessel (%)	0870	0.6800	0.0243	0.6437	0.0939	0.0249	16	0.39	3%	0
036.42	Sulfur, ICP, Open vessel (%)	0164	0.7300	0.0400	0.6437	0.0939	0.0249	16	0.92	7%	0
036.42	Sulfur, ICP, Open vessel (%)	0693	0.7355	0.0070	0.6437	0.0939	0.0249	16	0.98	7%	0
036.42	Sulfur, ICP, Open vessel (%)	0726	0.7700	0.0200	0.6437	0.0939	0.0249	16	1.35	10%	0
036.42	Sulfur, ICP, Open vessel (%)	0278	0.7800	0.0200	0.6437	0.0939	0.0249	16	1.45	11%	0
036.43	Sulfur, ICP, Microwave (%)	0964	0.4467	0.0153	0.6951	0.0616	0.0268	23	-4.03	18%	0
036.43	Sulfur, ICP, Microwave (%)	0353	0.4850	0.0300	0.6951	0.0616	0.0268	23	-3.41	15%	0
036.43	Sulfur, ICP, Microwave (%)	0202	0.5800	0.0600	0.6951	0.0616	0.0268	23	-1.87	8%	0
036.43	Sulfur, ICP, Microwave (%)	0407	0.6283	0.0262	0.6951	0.0616	0.0268	23	-1.08	5%	0
036.43	Sulfur, ICP, Microwave (%)	0297	0.6500	0.0000	0.6951	0.0616	0.0268	23	-0.73	3%	0
036.43	Sulfur, ICP, Microwave (%)	0682	0.6600	0.0000	0.6951	0.0616	0.0268	23	-0.57	3%	0
036.43	Sulfur, ICP, Microwave (%)	0968	0.6645	0.0010	0.6951	0.0616	0.0268	23	-0.50	2%	0
036.43	Sulfur, ICP, Microwave (%)	0226	0.6750	0.0100	0.6951	0.0616	0.0268	23	-0.33	1%	0
036.43	Sulfur, ICP, Microwave (%)	0345	0.6860	0.0060	0.6951	0.0616	0.0268	23	-0.15	1%	0
036.43	Sulfur, ICP, Microwave (%)	0035	0.6900	0.0400	0.6951	0.0616	0.0268	23	-0.08	0%	0
036.43	Sulfur, ICP, Microwave (%)	0505	0.6965	0.0190	0.6951	0.0616	0.0268	23	0.02	0%	0
036.43	Sulfur, ICP, Microwave (%)	0038	0.6980	0.0700	0.6951	0.0616	0.0268	23	0.05	0%	0
036.43	Sulfur, ICP, Microwave (%)	0098	0.7013	0.0019	0.6951	0.0616	0.0268	23	0.10	0%	0
036.43	Sulfur, ICP, Microwave (%)	0870	0.7059	0.0456	0.6951	0.0616	0.0268	23	0.18	1%	0
036.43	Sulfur, ICP, Microwave (%)	0169	0.7150	0.0100	0.6951	0.0616	0.0268	23	0.32	1%	0
036.43	Sulfur, ICP, Microwave (%)	0508	0.7172	0.0222	0.6951	0.0616	0.0268	23	0.36	2%	0
036.43	Sulfur, ICP, Microwave (%)	0083	0.7350	0.0100	0.6951	0.0616	0.0268	23	0.65	3%	0
036.43	Sulfur, ICP, Microwave (%)	0027	0.7360	0.0220	0.6951	0.0616	0.0268	23	0.66	3%	0
036.43	Sulfur, ICP, Microwave (%)	0876	0.7400	0.1000	0.6951	0.0616	0.0268	23	0.73	3%	0
036.43	Sulfur, ICP, Microwave (%)	2326	0.7450	0.0100	0.6951	0.0616	0.0268	23	0.81	4%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
036.43	Sulfur, ICP, Microwave (%)	0510	0.7600	0.0400	0.6951	0.0616	0.0268	23	1.05	5%	0
036.43	Sulfur, ICP, Microwave (%)	2089	0.7900	0.0400	0.6951	0.0616	0.0268	23	1.54	7%	0
036.43	Sulfur, ICP, Microwave (%)	0941	0.9420	0.0371	0.6951	0.0616	0.0268	23	4.01	18%	0
036.52	Sulfur, ICP-MS, Open vessel (%)	0186	0.6643	0.0435				1			0
036.53	Sulfur, ICP-MS, Microwave (%)	0043	0.7320	0.0080				1			0
036.99	Sulfur, Miscellaneous (%)	0889	0.5000	0.0100				3			0
036.99	Sulfur, Miscellaneous (%)	0904	0.5400	0.0400				3			0
036.99	Sulfur, Miscellaneous (%)	0242	0.6300	0.0200				3			0
037.31	Zinc, AAS, Dry ash (ppm)	0689	2,477	24.00	2,721	140.2	49.75	10	-1.74	4%	0
037.31	Zinc, AAS, Dry ash (ppm)	0529	2,531	81.30	2,721	140.2	49.75	10	-1.35	3%	0
037.31	Zinc, AAS, Dry ash (ppm)	0939	2,684	88.00	2,721	140.2	49.75	10	-0.26	1%	0
037.31	Zinc, AAS, Dry ash (ppm)	2196	2,695	0.0000	2,721	140.2	49.75	10	-0.19	0%	0
037.31	Zinc, AAS, Dry ash (ppm)	2022	2,710	160.0	2,721	140.2	49.75	10	-0.08	0%	0
037.31	Zinc, AAS, Dry ash (ppm)	0001	2,762	16.00	2,721	140.2	49.75	10	0.30	1%	0
037.31	Zinc, AAS, Dry ash (ppm)	0563	2,770	24.55	2,721	140.2	49.75	10	0.35	1%	0
037.31	Zinc, AAS, Dry ash (ppm)	0651	2,812	16.93	2,721	140.2	49.75	10	0.65	2%	0
037.31	Zinc, AAS, Dry ash (ppm)	0596	2,858	64.00	2,721	140.2	49.75	10	0.98	3%	0
037.31	Zinc, AAS, Dry ash (ppm)	0536	2,875	20.00	2,721	140.2	49.75	10	1.10	3%	0
037.32	Zinc, AAS, Open vessel (ppm)	2325	0.2800	0.0000				3			0
037.32	Zinc, AAS, Open vessel (ppm)	0038	2,600	160.0				3			0
037.32	Zinc, AAS, Open vessel (ppm)	2146	2,702	355.0				3			0
037.33	Zinc, AAS, Microwave (ppm)	0948	2,623	216.5				2			0
037.33	Zinc, AAS, Microwave (ppm)	2022	2,813	168.6				2			0
037.34	Zinc, AAS, Dry ash (ppm)	2188	2,940	61.00				1			0
037.41	Zinc, ICP, Dry ash (ppm)	0964	76.20	10.00	2,519	271.5	111.3	17	-9.00	48%	0
037.41	Zinc, ICP, Dry ash (ppm)	0619	1,862	280.0	2,519	271.5	111.3	17	-2.42	13%	0
037.41	Zinc, ICP, Dry ash (ppm)	0848	2,253	105.3	2,519	271.5	111.3	17	-0.98	5%	0
037.41	Zinc, ICP, Dry ash (ppm)	0598	2,396	4.657	2,519	271.5	111.3	17	-0.45	2%	0
037.41	Zinc, ICP, Dry ash (ppm)	2259	2,403	94.00	2,519	271.5	111.3	17	-0.43	2%	0
037.41	Zinc, ICP, Dry ash (ppm)	0171	2,415	110.0	2,519	271.5	111.3	17	-0.38	2%	0
037.41	Zinc, ICP, Dry ash (ppm)	0358	2,420	29.13	2,519	271.5	111.3	17	-0.36	2%	0
037.41	Zinc, ICP, Dry ash (ppm)	0910	2,454	318.0	2,519	271.5	111.3	17	-0.24	1%	0
037.41	Zinc, ICP, Dry ash (ppm)	0148	2,490	240.3	2,519	271.5	111.3	17	-0.11	1%	0
037.41	Zinc, ICP, Dry ash (ppm)	0229	2,564	3.000	2,519	271.5	111.3	17	0.16	1%	0
037.41	Zinc, ICP, Dry ash (ppm)	0407	2,591	27.98	2,519	271.5	111.3	17	0.26	1%	0
037.41	Zinc, ICP, Dry ash (ppm)	0019	2,628	181.0	2,519	271.5	111.3	17	0.40	2%	0
037.41	Zinc, ICP, Dry ash (ppm)	0074	2,674	28.00	2,519	271.5	111.3	17	0.57	3%	0
037.41	Zinc, ICP, Dry ash (ppm)	0226	2,678	36.37	2,519	271.5	111.3	17	0.58	3%	0
037.41	Zinc, ICP, Dry ash (ppm)	0674	2,828	0.0000	2,519	271.5	111.3	17	1.14	6%	0
037.41	Zinc, ICP, Dry ash (ppm)	0004	2,896	65.51	2,519	271.5	111.3	17	1.39	7%	0
037.41	Zinc, ICP, Dry ash (ppm)	0098	2,913	273.0	2,519	271.5	111.3	17	1.45	8%	0
037.41	Zinc, ICP, Dry ash (ppm)	0049	2,445	903.3	2,519	271.5	111.3	17	-0.27	1%	1

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
037.42	Zinc, ICP, Open vessel (ppm)	0870	2,084	104.0	2,630	318.9	218.8	19	-1.71	10%	0
037.42	Zinc, ICP, Open vessel (ppm)	0042	2,108	72.00	2,630	318.9	218.8	19	-1.64	10%	0
037.42	Zinc, ICP, Open vessel (ppm)	0045	2,265	470.0	2,630	318.9	218.8	19	-1.15	7%	0
037.42	Zinc, ICP, Open vessel (ppm)	0357	2,266	29.09	2,630	318.9	218.8	19	-1.14	7%	0
037.42	Zinc, ICP, Open vessel (ppm)	2433	2,355	10.84	2,630	318.9	218.8	19	-0.86	5%	0
037.42	Zinc, ICP, Open vessel (ppm)	2319	2,550	160.0	2,630	318.9	218.8	19	-0.25	2%	0
037.42	Zinc, ICP, Open vessel (ppm)	0726	2,578	12.00	2,630	318.9	218.8	19	-0.16	1%	0
037.42	Zinc, ICP, Open vessel (ppm)	0263	2,594	52.27	2,630	318.9	218.8	19	-0.11	1%	0
037.42	Zinc, ICP, Open vessel (ppm)	0504	2,602	73.00	2,630	318.9	218.8	19	-0.09	1%	0
037.42	Zinc, ICP, Open vessel (ppm)	0366	2,655	210.0	2,630	318.9	218.8	19	0.08	0%	0
037.42	Zinc, ICP, Open vessel (ppm)	0009	2,666	455.0	2,630	318.9	218.8	19	0.11	1%	0
037.42	Zinc, ICP, Open vessel (ppm)	0278	2,758	65.60	2,630	318.9	218.8	19	0.40	2%	0
037.42	Zinc, ICP, Open vessel (ppm)	0413	2,780	160.0	2,630	318.9	218.8	19	0.47	3%	0
037.42	Zinc, ICP, Open vessel (ppm)	0037	2,821	153.6	2,630	318.9	218.8	19	0.60	4%	0
037.42	Zinc, ICP, Open vessel (ppm)	0692	2,921	545.0	2,630	318.9	218.8	19	0.91	6%	0
037.42	Zinc, ICP, Open vessel (ppm)	0693	2,932	520.3	2,630	318.9	218.8	19	0.95	6%	0
037.42	Zinc, ICP, Open vessel (ppm)	0026	2,946	461.4	2,630	318.9	218.8	19	0.99	6%	0
037.42	Zinc, ICP, Open vessel (ppm)	2129	2,977	32.00	2,630	318.9	218.8	19	1.09	7%	0
037.42	Zinc, ICP, Open vessel (ppm)	2375	3,005	718.0	2,630	318.9	218.8	19	1.18	7%	0
037.43	Zinc, ICP, Microwave (ppm)	0345	0.2275	0.0030	2,427	302.4	87.23	32	-8.03	50%	0
037.43	Zinc, ICP, Microwave (ppm)	0353	1,557	45.00	2,427	302.4	87.23	32	-2.88	18%	0
037.43	Zinc, ICP, Microwave (ppm)	0511	1,907	89.00	2,427	302.4	87.23	32	-1.72	11%	0
037.43	Zinc, ICP, Microwave (ppm)	0870	1,961	6.000	2,427	302.4	87.23	32	-1.54	10%	0
037.43	Zinc, ICP, Microwave (ppm)	0354	2,139	29.63	2,427	302.4	87.23	32	-0.95	6%	0
037.43	Zinc, ICP, Microwave (ppm)	0226	2,164	22.00	2,427	302.4	87.23	32	-0.87	5%	0
037.43	Zinc, ICP, Microwave (ppm)	0682	2,210	0.0000	2,427	302.4	87.23	32	-0.72	4%	0
037.43	Zinc, ICP, Microwave (ppm)	0508	2,242	190.8	2,427	302.4	87.23	32	-0.61	4%	0
037.43	Zinc, ICP, Microwave (ppm)	0968	2,254	46.80	2,427	302.4	87.23	32	-0.57	4%	0
037.43	Zinc, ICP, Microwave (ppm)	2089	2,268	128.8	2,427	302.4	87.23	32	-0.53	3%	0
037.43	Zinc, ICP, Microwave (ppm)	0675	2,287	90.86	2,427	302.4	87.23	32	-0.46	3%	0
037.43	Zinc, ICP, Microwave (ppm)	0505	2,365	118.0	2,427	302.4	87.23	32	-0.21	1%	0
037.43	Zinc, ICP, Microwave (ppm)	0083	2,387	20.27	2,427	302.4	87.23	32	-0.13	1%	0
037.43	Zinc, ICP, Microwave (ppm)	2445	2,387	52.42	2,427	302.4	87.23	32	-0.13	1%	0
037.43	Zinc, ICP, Microwave (ppm)	0202	2,390	153.0	2,427	302.4	87.23	32	-0.12	1%	0
037.43	Zinc, ICP, Microwave (ppm)	0035	2,410	42.00	2,427	302.4	87.23	32	-0.06	0%	0
037.43	Zinc, ICP, Microwave (ppm)	0610	2,430	120.0	2,427	302.4	87.23	32	0.01	0%	0
037.43	Zinc, ICP, Microwave (ppm)	0510	2,440	40.00	2,427	302.4	87.23	32	0.04	0%	0
037.43	Zinc, ICP, Microwave (ppm)	0010	2,507	2.000	2,427	302.4	87.23	32	0.26	2%	0
037.43	Zinc, ICP, Microwave (ppm)	2055	2,511	111.0	2,427	302.4	87.23	32	0.28	2%	0
037.43	Zinc, ICP, Microwave (ppm)	0017	2,530	306.1	2,427	302.4	87.23	32	0.34	2%	0
037.43	Zinc, ICP, Microwave (ppm)	0848	2,537	3.975	2,427	302.4	87.23	32	0.36	2%	0
037.43	Zinc, ICP, Microwave (ppm)	0098	2,599	148.0	2,427	302.4	87.23	32	0.57	4%	0



Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
037.43	Zinc, ICP, Microwave (ppm)	0297	2,615	100.0	2,427	302.4	87.23	32	0.62	4%	0
037.43	Zinc, ICP, Microwave (ppm)	0169	2,625	30.00	2,427	302.4	87.23	32	0.65	4%	0
037.43	Zinc, ICP, Microwave (ppm)	0407	2,648	284.6	2,427	302.4	87.23	32	0.73	5%	0
037.43	Zinc, ICP, Microwave (ppm)	0038	2,735	150.0	2,427	302.4	87.23	32	1.02	6%	0
037.43	Zinc, ICP, Microwave (ppm)	0013	2,750	300.0	2,427	302.4	87.23	32	1.07	7%	0
037.43	Zinc, ICP, Microwave (ppm)	0941	2,790	83.00	2,427	302.4	87.23	32	1.20	7%	0
037.43	Zinc, ICP, Microwave (ppm)	0876	2,791	6.100	2,427	302.4	87.23	32	1.20	8%	0
037.43	Zinc, ICP, Microwave (ppm)	0027	3,142	122.0	2,427	302.4	87.23	32	2.36	15%	0
037.43	Zinc, ICP, Microwave (ppm)	2326	3,295	156.0	2,427	302.4	87.23	32	2.87	18%	0
037.43	Zinc, ICP, Microwave (ppm)	0028	2,461	514.0	2,427	302.4	87.23	32	0.11	1%	1
037.44	Zinc, ICP, Dry ash (ppm)	0723	2,312	30.60	2,532	230.7	55.76	4			0
037.44	Zinc, ICP, Dry ash (ppm)	0066	2,355	114.4	2,532	230.7	55.76	4			0
037.44	Zinc, ICP, Dry ash (ppm)	0164	2,700	60.00	2,532	230.7	55.76	4			0
037.44	Zinc, ICP, Dry ash (ppm)	2114	2,760	18.00	2,532	230.7	55.76	4			0
037.44	Zinc, ICP, Dry ash (ppm)	0039	2,335	687.0	2,532	230.7	55.76	4			1
037.52	Zinc, ICP-MS, Open vessel (ppm)	0047	2,638	52.00				2			0
037.52	Zinc, ICP-MS, Open vessel (ppm)	2146	2,769	429.0				2			0
037.53	Zinc, ICP-MS, Microwave (ppm)	0939	2,595	28.00				3			0
037.53	Zinc, ICP-MS, Microwave (ppm)	0407	2,596	119.0				3			0
037.53	Zinc, ICP-MS, Microwave (ppm)	0043	2,852	22.12				3			0
037.99	Zinc, Miscellaneous (ppm)	0123	1,946	163.0	2,372	336.9	102.4	5			0
037.99	Zinc, Miscellaneous (ppm)	0242	2,126	17.00	2,372	336.9	102.4	5			0
037.99	Zinc, Miscellaneous (ppm)	0889	2,449	73.19	2,372	336.9	102.4	5			0
037.99	Zinc, Miscellaneous (ppm)	0100	2,553	214.0	2,372	336.9	102.4	5			0
037.99	Zinc, Miscellaneous (ppm)	0590	2,788	45.00	2,372	336.9	102.4	5			0
038.41	Molybdenum, ICP, Dry ash (ppm)	0964	1.305	0.0900	5.318	2.844	0.2356	4			0
038.41	Molybdenum, ICP, Dry ash (ppm)	0407	5.942	0.4625	5.318	2.844	0.2356	4			0
038.41	Molybdenum, ICP, Dry ash (ppm)	0226	6.005	0.1700	5.318	2.844	0.2356	4			0
038.41	Molybdenum, ICP, Dry ash (ppm)	0208	8.020	0.2200	5.318	2.844	0.2356	4			0
038.42	Molybdenum, ICP, Open vessel (ppm)	0693	4.923	1.338	8.782	5.108	0.6970	4			0
038.42	Molybdenum, ICP, Open vessel (ppm)	0042	5.515	0.1100	8.782	5.108	0.6970	4			0
038.42	Molybdenum, ICP, Open vessel (ppm)	0366	8.650	0.1000	8.782	5.108	0.6970	4			0
038.42	Molybdenum, ICP, Open vessel (ppm)	0278	16.04	1.240	8.782	5.108	0.6970	4			0
038.42	Molybdenum, ICP, Open vessel (ppm)	0692	8.000	6.000	8.782	5.108	0.6970	4			1
038.43	Molybdenum, ICP, Microwave (ppm)	0964	1.715	0.9500	4.109	2.062	0.4011	7	-1.16	29%	0
038.43	Molybdenum, ICP, Microwave (ppm)	0407	3.060	0.2048	4.109	2.062	0.4011	7	-0.51	13%	0
038.43	Molybdenum, ICP, Microwave (ppm)	0169	3.245	0.0100	4.109	2.062	0.4011	7	-0.42	11%	0
038.43	Molybdenum, ICP, Microwave (ppm)	0353	3.468	0.5131	4.109	2.062	0.4011	7	-0.31	8%	0
038.43	Molybdenum, ICP, Microwave (ppm)	0202	4.190	0.4200	4.109	2.062	0.4011	7	0.04	1%	0
038.43	Molybdenum, ICP, Microwave (ppm)	0083	6.535	0.0100	4.109	2.062	0.4011	7	1.18	30%	0
038.43	Molybdenum, ICP, Microwave (ppm)	0297	6.550	0.7000	4.109	2.062	0.4011	7	1.18	30%	0
038.52	Molybdenum, ICP-MS, Open vessel (ppm)	0186	9.355	0.0607				1			0

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			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
038.53	Molybdenum, ICP-MS, Microwave (ppm)	0407	4.120	0.5501				3			0
038.53	Molybdenum, ICP-MS, Microwave (ppm)	0164	7.810	0.3000				3			0
038.53	Molybdenum, ICP-MS, Microwave (ppm)	0939	8.005	0.0700				3			0
038.99	Molybdenum, Miscellaneous (ppm)	0123	6.045	0.4300				1			0
040.43	Barium, ICP, Microwave (ppm)	2055	7.550	0.1000				1			0
040.53	Barium, ICP-MS, Microwave (ppm)	0407	9.948	0.3753				1			0
041.53	Vanadium, ICP-MS, Microwave (ppm)	0407	7.079	0.2837				1			0
042.00	Chloride, Titrimetric (%)	0619	9.630	0.1600	10.26	0.4596	0.1075	4			0
042.00	Chloride, Titrimetric (%)	0610	10.20	0.1000	10.26	0.4596	0.1075	4			0
042.00	Chloride, Titrimetric (%)	2199	10.55	0.0700	10.26	0.4596	0.1075	4			0
042.00	Chloride, Titrimetric (%)	2326	10.65	0.1000	10.26	0.4596	0.1075	4			0
042.01	Chloride, Ion-selective electrode (%)	2434	8.610	0.0000				2			0
042.01	Chloride, Ion-selective electrode (%)	2433	10.30	0.0320				2			0
042.99	Chloride, Miscellaneous (%)	0297	9.725	0.0700				3			0
042.99	Chloride, Miscellaneous (%)	0941	10.58	0.0000				3			0
042.99	Chloride, Miscellaneous (%)	2392	11.10	0.8000				3			0
102.01	Niacin, Microbiological (ppm)	0227	5.940	0.3600				1			0
103.01	Pantothenic Acid, Microbiological (ppm)	0227	5.260	0.2000				1			0
104.00	Riboflavin, Fluorometric (ppm)	0227	< 0.5					0			5
105.01	Thiamine, Fluorometer (ppm)	0227	1.170	0.1200				1			0
106.00	Vitamin A, Color (KU / kg)	0227	165.5	11.00				1			0
106.01	Vitamin A, UV (KU / kg)	0098	199.0	6.000				1			0
106.02	Vitamin A, LC (KU / kg)	0017	24.70	0.0000	180.6	33.12	6.352	12	-4.71	43%	0
106.02	Vitamin A, LC (KU / kg)	0148	141.2	1.766	180.6	33.12	6.352	12	-1.19	11%	0
106.02	Vitamin A, LC (KU / kg)	0004	151.3	13.95	180.6	33.12	6.352	12	-0.88	8%	0
106.02	Vitamin A, LC (KU / kg)	2319	159.5	17.00	180.6	33.12	6.352	12	-0.64	6%	0
106.02	Vitamin A, LC (KU / kg)	0904	174.6	7.440	180.6	33.12	6.352	12	-0.18	2%	0
106.02	Vitamin A, LC (KU / kg)	0038	182.0	4.000	180.6	33.12	6.352	12	0.04	0%	0
106.02	Vitamin A, LC (KU / kg)	0870	190.0	1.900	180.6	33.12	6.352	12	0.28	3%	0
106.02	Vitamin A, LC (KU / kg)	0563	197.5	6.694	180.6	33.12	6.352	12	0.51	5%	0
106.02	Vitamin A, LC (KU / kg)	0027	199.7	2.770	180.6	33.12	6.352	12	0.58	5%	0
106.02	Vitamin A, LC (KU / kg)	2392	208.7	8.400	180.6	33.12	6.352	12	0.85	8%	0
106.02	Vitamin A, LC (KU / kg)	0010	215.3	2.000	180.6	33.12	6.352	12	1.05	10%	0
106.02	Vitamin A, LC (KU / kg)	0619	216.5	7.000	180.6	33.12	6.352	12	1.08	10%	0
106.02	Vitamin A, LC (KU / kg)	0610	212.5	35.00	180.6	33.12	6.352	12	0.96	9%	1
107.00	Vitamin B12, Microbiological (ppb)	0227	< 4.4					0			5
108.02	Vitamin D3, LC (KU / kg)	0148	0.2348	0.0408				3			0
108.02	Vitamin D3, LC (KU / kg)	0227	0.8800	0.1260				3			0
108.02	Vitamin D3, LC (KU / kg)	2319	0.9730	0.3000				3			0
108.02	Vitamin D3, LC (KU / kg)	0619	0.0000	0.0000				3			4
108.02	Vitamin D3, LC (KU / kg)	0870	< 2					3			5
108.02	Vitamin D3, LC (KU / kg)	0910	< 20					3			5

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			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
108.99	Vitamin D3, Miscellaneous (KU / kg)	0010	1.250	0.1000				1			0
109.02	Vitamin E, LC (IU / kg)	0148	267.7	0.1000	318.9	54.66	22.90	15	-0.94	8%	0
109.02	Vitamin E, LC (IU / kg)	0563	272.4	9.610	318.9	54.66	22.90	15	-0.85	7%	0
109.02	Vitamin E, LC (IU / kg)	2394	273.1	1.400	318.9	54.66	22.90	15	-0.84	7%	0
109.02	Vitamin E, LC (IU / kg)	0619	275.0	8.000	318.9	54.66	22.90	15	-0.80	7%	0
109.02	Vitamin E, LC (IU / kg)	0590	284.0	20.00	318.9	54.66	22.90	15	-0.64	5%	0
109.02	Vitamin E, LC (IU / kg)	0098	290.0	36.00	318.9	54.66	22.90	15	-0.53	5%	0
109.02	Vitamin E, LC (IU / kg)	0027	297.8	24.30	318.9	54.66	22.90	15	-0.39	3%	0
109.02	Vitamin E, LC (IU / kg)	0904	299.3	3.170	318.9	54.66	22.90	15	-0.36	3%	0
109.02	Vitamin E, LC (IU / kg)	2392	300.0	26.00	318.9	54.66	22.90	15	-0.35	3%	0
109.02	Vitamin E, LC (IU / kg)	2319	329.5	25.00	318.9	54.66	22.90	15	0.19	2%	0
109.02	Vitamin E, LC (IU / kg)	0610	338.5	54.00	318.9	54.66	22.90	15	0.36	3%	0
109.02	Vitamin E, LC (IU / kg)	0227	384.0	20.00	318.9	54.66	22.90	15	1.19	10%	0
109.02	Vitamin E, LC (IU / kg)	0038	385.0	72.00	318.9	54.66	22.90	15	1.21	10%	0
109.02	Vitamin E, LC (IU / kg)	0968	387.0	0.4100	318.9	54.66	22.90	15	1.25	11%	0
109.02	Vitamin E, LC (IU / kg)	0870	505.2	101.0	318.9	54.66	22.90	15	3.41	29%	0
109.99	Vitamin E, Miscellaneous (IU / kg)	0171	268.5	5.000				1			0
111.00	Vitamin C, Phosphorylated, LC (ppm)	0227	< 4.4					0			5
113.01	Folic Acid, Micro (ppm)	0227	0.2025	0.0270				1			0
114.01	Biotin, Microbiological (ppm)	0227	0.1595	0.0030				1			0
114.99	Biotin, Miscellaneous (ppm)	0227	0.1290	0.0040				1			0
115.00	Non Protein N (NPN), Urea + Am, Urease meth	0407	0.1112	0.0976				1			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0682	0.1040	0.0000				1			0
120.02	Alanine, Post-col OPA Der (%)	0098	0.1030	0.0040				1			0
120.05	Alanine, Pre-col AQC Der (%)	0870	0.0830	0.0020				2			0
120.05	Alanine, Pre-col AQC Der (%)	0407	0.0955	0.0010				2			0
120.99	Alanine, Miscellaneous (%)	0227	0.0850	0.0100				1			0
121.00	Arginine, Post-col Ninhydrin Der (%)	0682	0.0810	0.0000				1			0
121.02	Arginine, Post-col OPA Der (%)	0098	0.0790	0.0040				1			0
121.05	Arginine, Pre-col AQC Der (%)	0870	0.0775	0.0010				2			0
121.05	Arginine, Pre-col AQC Der (%)	0407	0.1170	0.0020				2			0
121.99	Arginine, Miscellaneous (%)	0227	0.0750	0.0100				1			0
122.00	Aspartic, Post-col Ninhydrin Der (%)	0682	0.2590	0.0000				1			0
122.02	Aspartic, Post-col OPA Der (%)	0098	0.2735	0.0110				1			0
122.05	Aspartic, Pre-col AQC Der (%)	0870	0.2460	0.0020				2			0
122.05	Aspartic, Pre-col AQC Der (%)	0407	0.2550	0.0140				2			0
122.99	Aspartic, Miscellaneous (%)	0227	0.2400	0.0200				1			0
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	0682	0.0200	0.0000				1			0
124.02	Cysteine/Cystine, PAO Post-col OPA Der (%)	0098	0.0205	0.0010				1			0
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	0407	0.0158	0.0029				2			0
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	0870	0.0340	0.0020				2			0
124.99	Cysteine/Cystine, Miscellaneous (%)	0227	0.0200	0.0000				1			0

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			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
125.00	Glutamic, Post-col Ninhydrin Der (%)	0682	0.2860	0.0000				1		0	
125.02	Glutamic, Post-col OPA Der (%)	0098	0.2935	0.0170				1		0	
125.05	Glutamic, Pre-col AQC Der (%)	0870	0.2820	0.0040				2		0	
125.05	Glutamic, Pre-col AQC Der (%)	0407	0.2835	0.0030				2		0	
125.99	Glutamic, Miscellaneous (%)	0227	0.2550	0.0300				1		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0682	0.1220	0.0000				1		0	
126.02	Glycine, Post-col OPA Der (%)	0098	0.1310	0.0060				1		0	
126.05	Glycine, Pre-col AQC Der (%)	0407	0.1245	0.0030				2		0	
126.05	Glycine, Pre-col AQC Der (%)	0870	0.1730	0.0080				2		0	
126.99	Glycine, Miscellaneous (%)	0227	0.1150	0.0100				1		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0682	0.0490	0.0000				1		0	
127.02	Histidine, Post-col OPA Der (%)	0098	0.0315	0.0030				1		0	
127.05	Histidine, Pre-col AQC Der (%)	0407	0.0295	0.0010				1		0	
127.05	Histidine, Pre-col AQC Der (%)	0870	< 0.01					1		5	
127.99	Histidine, Miscellaneous (%)	0227	0.0300	0.0000				1		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0682	0.0700	0.0000				1		0	
128.02	Isoleucine, Post-col OPA Der (%)	0098	0.0650	0.0040				1		0	
128.05	Isoleucine, Pre-col AQC Der (%)	0407	0.0670	0.0000				2		0	
128.05	Isoleucine, Pre-col AQC Der (%)	0870	0.0700	0.0020				2		0	
128.99	Isoleucine, Miscellaneous (%)	0227	0.0650	0.0100				1		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0682	0.1030	0.0000				1		0	
129.02	Leucine, Post-col OPA Der (%)	0098	0.1100	0.0060				1		0	
129.05	Leucine, Pre-col AQC Der (%)	0407	0.1055	0.0030				2		0	
129.05	Leucine, Pre-col AQC Der (%)	0870	0.1170	0.0040				2		0	
129.99	Leucine, Miscellaneous (%)	0227	0.0850	0.0100				1		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0682	0.0830	0.0000				1		0	
130.02	L-Lysine, Post-col OPA Der (%)	0098	0.0850	0.0060				1		0	
130.05	L-Lysine, Pre-col AQC Der (%)	0870	0.0725	0.0010				2		0	
130.05	L-Lysine, Pre-col AQC Der (%)	0407	0.0890	0.0040				2		0	
130.99	L-Lysine, Miscellaneous (%)	0227	0.0750	0.0100				1		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0682	0.0140	0.0000				1		0	
131.02	Methionine, PAO Post-col OPA Der (%)	0098	0.0120	0.0000				1		0	
131.05	Methionine, PAO Pre-col AQC Der (%)	0407	0.0091	0.0000				1		0	
131.05	Methionine, PAO Pre-col AQC Der (%)	0870	< 0.01					1		5	
131.99	Methionine, Miscellaneous (%)	0227	< 0.01					0		5	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0682	0.0660	0.0000				1		0	
132.02	Phenylalanine, Post-col OPA Der (%)	0098	0.0670	0.0040				1		0	
132.05	Phenylalanine, Pre-col AQC Der (%)	0407	0.0540	0.0000				2		0	
132.05	Phenylalanine, Pre-col AQC Der (%)	0870	0.0690	0.0060				2		0	
132.99	Phenylalanine, Miscellaneous (%)	0227	0.0650	0.0100				1		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0682	0.0830	0.0000				1		0	
133.05	Proline, Pre-col AQC Der (%)	0870	0.0850	0.0020				2		0	



Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
133.05	Proline, Pre-col AQC Der (%)	0407	0.0890	0.0020				2		0	
133.99	Proline, Miscellaneous (%)	0227	0.0700	0.0000				1		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0682	0.0970	0.0000				1		0	
134.02	Serine, Post-col OPA Der (%)	0098	0.0915	0.0050				1		0	
134.05	Serine, Pre-col AQC Der (%)	0407	0.0770	0.0000				2		0	
134.05	Serine, Pre-col AQC Der (%)	0870	0.1100	0.0040				2		0	
134.99	Serine, Miscellaneous (%)	0227	0.0850	0.0100				1		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0682	0.0600	0.0000				1		0	
135.02	Threonine, Post-col OPA Der (%)	0098	0.0640	0.0060				1		0	
135.05	Threonine, Pre-col AQC Der (%)	0407	0.0545	0.0010				2		0	
135.05	Threonine, Pre-col AQC Der (%)	0870	0.0570	0.0020				2		0	
135.99	Threonine, Miscellaneous (%)	0227	0.0600	0.0000				1		0	
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	0227	0.0200	0.0000				2		0	
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	0682	0.0240	0.0000				2		0	
136.02	Tryptophan, Alka-Hydrol Post-col OPA De (%)	0098	0.0165	0.0010				1		0	
136.03	Tryptophan, Alka-Hydrol + IS RP LC FI (%)	2059	0.0165	0.0010				1		0	
136.05	Tryptophan, Pre-col AQC Der (%)	0407	0.0155	0.0010				1		0	
136.05	Tryptophan, Pre-col AQC Der (%)	0870	< 0.01					1		5	
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0682	0.0280	0.0000				2		0	
137.00	Tyrosine, Post-col Ninhydrin Der (%)	2059	0.0705	0.0050				2		0	
137.02	Tyrosine, Post-col OPA Der (%)	0098	0.0565	0.0010				1		0	
137.05	Tyrosine, Pre-col AQC Der (%)	0407	0.0505	0.0010				1		0	
137.05	Tyrosine, Pre-col AQC Der (%)	0870	< 0.01					1		5	
137.99	Tyrosine, Miscellaneous (%)	0227	0.0450	0.0100				1		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0682	0.0940	0.0000				1		0	
138.02	Valine, Post-col OPA Der (%)	0098	0.0935	0.0030				1		0	
138.05	Valine, Pre-col AQC Der (%)	0870	0.0860	0.0000				2		0	
138.05	Valine, Pre-col AQC Der (%)	0407	0.1260	0.0020				2		0	
138.99	Valine, Miscellaneous (%)	0227	0.0850	0.0100				1		0	
139.00	Taurine, Post-col Ninhydrin Der (%)	0682	0.0130	0.0000				1		0	
139.02	Taurine, Post-col OPA Der (%)	0098	< 0.01					0		5	
139.05	Taurine, Pre-col AQC Der (%)	0407	0.0060	0.0020				1		0	
139.99	Taurine, Miscellaneous (%)	0227	< 0.01					0		5	
160.10	Fructose, HPAEC PAD (%)	0297	0.5000	0.0000				1		0	
160.99	Fructose, Miscellaneous (%)	0227	0.5600	0.0200				1		0	
161.10	Galactose, HPAEC PAD (%)	0297	0.0000	0.0000				0		4	
162.10	Glucose, HPAEC PAD (%)	0297	0.1400	0.0000				1		0	
162.99	Glucose, Miscellaneous (%)	0227	< 0.15					0		5	
163.10	Lactose, HPAEC PAD (%)	0297	0.0000	0.0000				0		4	
163.99	Lactose, Miscellaneous (%)	0227	< 0.15					0		5	
164.10	Maltose, HPAEC PAD (%)	0297	0.0000	0.0000				0		4	
164.99	Maltose, Miscellaneous (%)	0227	< 0.15					0		5	

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
165.10	Sucrose, HPAEC PAD (%)	0297	3.685	0.0700				1			0
165.99	Sucrose, Miscellaneous (%)	0227	3.730	0.1400				1			0
166.10	Raffinose, HPAEC PAD (%)	0297	0.0000	0.0000				0			4
166.99	Raffinose, Miscellaneous (%)	0227	< 0.05					0			5
167.10	Stachyose, HPAEC PAD (%)	0297	0.0000	0.0000				0			4
167.99	Stachyose, Miscellaneous (%)	0227	0.1000	0.0000				1			0
351.03	Chlortetracycline, LC (UV or FL) (ppm)	0910	< 15					0			5
354.01	Decoquinatate, LC (UV or FL) (ppm)	0910	< 0.1					0			5
361.02	Lasalocid Sodium, LC (ppm)	0910	< 1					0			5
365.02	Monensin, LC (ppm)	0910	< 2					0			5
367.99	Nicarbazin, Miscellaneous (ppm)	0910	< 3					0			5
386.99	Tiamulin, Miscellaneous (ppm)	0910	< 1					0			5
388.03	Tylosin, LC (ppm)	0910	< 10					0			5
392.99	Fenbendazole, Miscellaneous (ppm)	0910	< 1					0			5
400.01	Water Activity, Aqualab chilled mirror (Units)	2268	0.0975	0.0150	0.3999	0.0267	0.0031	6	-11.34	38%	0
400.01	Water Activity, Aqualab chilled mirror (Units)	0942	0.3965	0.0010	0.3999	0.0267	0.0031	6	-0.13	0%	0
400.01	Water Activity, Aqualab chilled mirror (Units)	0589	0.3975	0.0030	0.3999	0.0267	0.0031	6	-0.09	0%	0
400.01	Water Activity, Aqualab chilled mirror (Units)	2181	0.3998	0.0002	0.3999	0.0267	0.0031	6	0.00	0%	0
400.01	Water Activity, Aqualab chilled mirror (Units)	2114	0.4161	0.0051	0.3999	0.0267	0.0031	6	0.61	2%	0
400.01	Water Activity, Aqualab chilled mirror (Units)	0407	0.4297	0.0002	0.3999	0.0267	0.0031	6	1.12	4%	0
400.99	Water Activity, Miscellaneous (Units)	0676	0.4030	0.0000				1			0
516.00	Arsenic, Total (As), AA, Hydride (ppm)	0904	0.3650	0.0500				2			0
516.00	Arsenic, Total (As), AA, Hydride (ppm)	2022	0.5822	0.0301				2			0
516.42	Arsenic, Total (As), ICP, Open vessel (ppm)	0042	6.010	0.1600				1			0
516.43	Arsenic, Total (As), ICP, Microwave (ppm)	0619	0.0730	0.0040				3			0
516.43	Arsenic, Total (As), ICP, Microwave (ppm)	2114	0.3823	0.0086				3			0
516.43	Arsenic, Total (As), ICP, Microwave (ppm)	0964	2.025	0.1290				3			0
516.43	Arsenic, Total (As), ICP, Microwave (ppm)	0682	< 20					3			5
516.52	Arsenic, Total (As), ICP-MS, Open vessel (ppm)	0186	0.4838	0.0221				1			0
516.53	Arsenic, Total (As), ICP-MS, Microwave (ppm)	0407	0.5064	0.0044				3			0
516.53	Arsenic, Total (As), ICP-MS, Microwave (ppm)	0227	0.5925	0.0390				3			0
516.53	Arsenic, Total (As), ICP-MS, Microwave (ppm)	0939	0.6100	0.0600				3			0
518.34	Cadmium, AAS, Graphite furnace (ppm)	2022	0.7043	0.0034				1			0
518.41	Cadmium, ICP, Dry ash (ppm)	0619	0.4575	0.0070				2			0
518.41	Cadmium, ICP, Dry ash (ppm)	0407	0.5359	0.0029				2			0
518.42	Cadmium, ICP, Open vessel (ppm)	2433	0.5535	0.0050				1			0
518.42	Cadmium, ICP, Open vessel (ppm)	0042	< 0.4					1			5
518.43	Cadmium, ICP, Microwave (ppm)	0682	0.4100	0.0000	0.6142	0.1876	0.0133	4			0
518.43	Cadmium, ICP, Microwave (ppm)	0407	0.5268	0.0160	0.6142	0.1876	0.0133	4			0
518.43	Cadmium, ICP, Microwave (ppm)	0941	0.6770	0.0140	0.6142	0.1876	0.0133	4			0
518.43	Cadmium, ICP, Microwave (ppm)	0968	0.8430	0.0100	0.6142	0.1876	0.0133	4			0
518.52	Cadmium, ICP-MS, Open vessel (ppm)	0186	0.6897	0.0165				1			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
518.53	Cadmium, ICP-MS, Microwave (ppm)	0939	0.5850	0.0300	0.6637	0.0742	0.0136	4		0	
518.53	Cadmium, ICP-MS, Microwave (ppm)	0610	0.6350	0.0100	0.6637	0.0742	0.0136	4		0	
518.53	Cadmium, ICP-MS, Microwave (ppm)	0407	0.6744	0.0034	0.6637	0.0742	0.0136	4		0	
518.53	Cadmium, ICP-MS, Microwave (ppm)	0227	0.7605	0.0110	0.6637	0.0742	0.0136	4		0	
518.99	Cadmium, Miscellaneous (ppm)	2114	0.6098	0.0016				1		0	
520.41	Chromium, Total (Cr), ICP, Dry ash (ppm)	0407	97.24	9.982				3		0	
520.41	Chromium, Total (Cr), ICP, Dry ash (ppm)	0208	110.5	5.000				3		0	
520.41	Chromium, Total (Cr), ICP, Dry ash (ppm)	0619	136.5	9.000				3		0	
520.42	Chromium, Total (Cr), ICP, Open vessel (ppm)	0042	69.95	2.500				3		0	
520.42	Chromium, Total (Cr), ICP, Open vessel (ppm)	0693	90.77	20.25				3		0	
520.42	Chromium, Total (Cr), ICP, Open vessel (ppm)	0685	96.77	2.000				3		0	
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	0964	15.18	0.6490	110.2	31.68	2.608	8	-3.00	43%	0
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	0407	73.67	10.56	110.2	31.68	2.608	8	-1.15	17%	0
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	0723	107.5	2.610	110.2	31.68	2.608	8	-0.09	1%	0
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	0968	116.0	0.2700	110.2	31.68	2.608	8	0.18	3%	0
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	0297	120.5	5.000	110.2	31.68	2.608	8	0.32	5%	0
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	0510	128.1	1.970	110.2	31.68	2.608	8	0.56	8%	0
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	0682	135.0	0.0000	110.2	31.68	2.608	8	0.78	11%	0
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	0226	138.3	1.080	110.2	31.68	2.608	8	0.89	13%	0
520.52	Chromium, Total (Cr), ICP-MS, Open vessel (ppm)	0186	152.4	0.7000				1		0	
520.53	Chromium, Total (Cr), ICP-MS, Microwave (ppm)	0407	94.53	13.26				3		0	
520.53	Chromium, Total (Cr), ICP-MS, Microwave (ppm)	0164	128.0	2.000				3		0	
520.53	Chromium, Total (Cr), ICP-MS, Microwave (ppm)	0939	137.5	3.000				3		0	
526.41	Lead, ICP, Dry ash (ppm)	0619	0.4925	0.1450				2		0	
526.41	Lead, ICP, Dry ash (ppm)	0407	1.015	0.0282				2		0	
526.42	Lead, ICP, Open vessel (ppm)	2433	0.7375	0.0070				2		0	
526.42	Lead, ICP, Open vessel (ppm)	0042	3.855	0.6100				2		0	
526.43	Lead, ICP, Microwave (ppm)	0941	0.6005	0.0110				2		0	
526.43	Lead, ICP, Microwave (ppm)	0407	1.006	0.1275				2		0	
526.43	Lead, ICP, Microwave (ppm)	0682	< 10					2		5	
526.52	Lead, ICP-MS, Open vessel (ppm)	0186	1.172	0.0287				1		0	
526.53	Lead, ICP-MS, Microwave (ppm)	0610	0.6050	0.0100				3		0	
526.53	Lead, ICP-MS, Microwave (ppm)	0407	0.6687	0.0112				3		0	
526.53	Lead, ICP-MS, Microwave (ppm)	0939	0.8150	0.0100				3		0	
526.53	Lead, ICP-MS, Microwave (ppm)	0227	0.8005	0.0870				3		1	
526.99	Lead, Miscellaneous (ppm)	2114	0.7314	0.0131				1		0	
529.99	Mercury, Miscellaneous (ppb)	0407	5.430	0.9355				1		0	
529.99	Mercury, Miscellaneous (ppb)	0910	< 0.01					1		5	
529.99	Mercury, Miscellaneous (ppb)	0186	< 10					1		5	
529.99	Mercury, Miscellaneous (ppb)	0227	< 100					1		5	
529.99	Mercury, Miscellaneous (ppb)	0682	< 10000					1		5	
539.41	Nickel, ICP, Dry ash (ppm)	0407	34.57	2.500				1		0	

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Robust* Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
539.42	Nickel, ICP, Open vessel (ppm)	0042	20.45	0.7000				2		0	
539.42	Nickel, ICP, Open vessel (ppm)	2433	33.16	0.1120				2		0	
539.43	Nickel, ICP, Microwave (ppm)	0964	6.390	0.8600	34.18	20.45	1.437	6	-1.36	41%	0
539.43	Nickel, ICP, Microwave (ppm)	0407	18.51	0.7536	34.18	20.45	1.437	6	-0.77	23%	0
539.43	Nickel, ICP, Microwave (ppm)	0226	40.12	0.8700	34.18	20.45	1.437	6	0.29	9%	0
539.43	Nickel, ICP, Microwave (ppm)	0682	40.82	0.0000	34.18	20.45	1.437	6	0.32	10%	0
539.43	Nickel, ICP, Microwave (ppm)	0297	44.50	3.000	34.18	20.45	1.437	6	0.50	15%	0
539.43	Nickel, ICP, Microwave (ppm)	0941	54.75	1.700	34.18	20.45	1.437	6	1.01	30%	0
539.52	Nickel, ICP-MS, Open vessel (ppm)	0186	50.32	0.6500				1		0	
539.53	Nickel, ICP-MS, Microwave (ppm)	0407	25.30	6.075				2		0	
539.53	Nickel, ICP-MS, Microwave (ppm)	0939	40.17	0.7700				2		0	
702.00	Butyric Acid (4:0), Miscellaneous GC (%)	0164	< 0.02					0		5	
704.00	Caproic Acid (6:0) , Miscellaneous GC (%)	0164	< 0.02					0		5	
706.99	Caprylic acid (8:0), Miscellaneous (% (w/w))	0164	< 0.02					0		5	
708.99	Capric acid (10:0), Miscellaneous (% (w/w))	0164	< 0.02					0		5	
710.99	Lauric Acid (12:0), Miscellaneous (% (w/w))	0164	< 0.02					0		5	
714.99	Myristic Acid (14:0) , Miscellaneous (% (w/w))	0164	0.0350	0.0020				1		0	
716.99	Palmitic Acid (16:0), Miscellaneous (% (w/w))	0164	0.5960	0.0260				1		0	
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (% (w/w))	0164	0.0275	0.0010				1		0	
720.99	Margaric acid (17:0), Miscellaneous (% (w/w))	0164	< 0.02					0		5	
722.99	Stearic Acid (18:0), Miscellaneous (% (w/w))	0164	0.3045	0.0110				1		0	
724.99	Oleic Acid (9c-18:1), Miscellaneous (% (w/w))	0164	0.4885	0.0270				1		0	
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (% (w/w))	0164	0.0705	0.0070				1		0	
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellaneous (% (w/w))	0164	< 0.02					0		5	
730.99	Arachidic Acid (20:0), Miscellaneous (% (w/w))	0164	< 0.02					0		5	
732.99	Gondoic Acid (11c-20:1), Miscellaneous (% (w/w))	0164	< 0.02					0		5	
736.99	Arachidonic Acid (5c,8c,11c,14c-20:4), Miscellaneous (% (w/w))	0164	< 0.02					0		5	
740.99	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5), Miscellaneous (% (w/w))	0164	< 0.02					0		5	
742.99	Behenic Acid (22:0), Miscellaneous (% (w/w))	0164	< 0.02					0		5	
744.99	Erucic Acid (13c-22:1), Miscellaneous (% (w/w))	0164	< 0.02					0		5	
746.99	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5), Miscellaneous (% (w/w))	0164	< 0.02					0		5	
748.99	Lignoceric Acid (24:0), Miscellaneous (% (w/w))	0164	< 0.02					0		5	
750.99	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c,22:6), Miscellaneous (% (w/w))	0164	< 0.02					0		5	
752.99	Nervonic Acid (24:1) isomers, Miscellaneous (% (w/w))	0164	< 0.02					0		5	
754.99	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Miscellaneous (% (w/w))	0164	< 0.02					0		5	
756.99	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Miscellaneous (% (w/w))	0164	0.0750	0.0060				1		0	
758.99	Total Saturated Fatty Acids, Miscellaneous (% (w/w))	0164	0.9815	0.0450				1		0	
764.99	Total cis Monounsaturated Fatty Acids, Miscellaneous (% (w/w))	0164	0.5765	0.0310				1		0	
768.99	Total cis Polyunsaturated Fatty Acids, Miscellaneous (% (w/w))	0164	0.0885	0.0090				1		0	
770.99	Total Fat (equivalent to NLEA), Miscellaneous (% (w/w))	0164	1.743	0.0880				1		0	
772.99	Total Fatty Acids, Miscellaneous (% (w/w))	0164	1.664	0.0840				1		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)

Method Code	Analyte Name and Method (Units) and Green = Z <= 2 and >= -2 (OK at 95%).	Lab Code	Lab Data		Robust* Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
<p><b>Note 2:</b> Data Not Used Flags: 1=Rejected for duplicates too far apart, 2=Rejected as extreme outlier, 5=Reporting limit (&lt;), 4=Zeros submitted as values and 3=Statistical problem. Flag 0 indicates data used in calculations.</p> <p><b>Note 3:</b> *Robust statistics not used if &lt; 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 blunders removed (Mandel h and k exclusions apply; Grey). A zero range is not included in robust R-bar calculation.</p>											