



**AAFCO**  
Association of American Feed Control Officials



**Pet Food Ingredient Scheme**

**Beet Pulp**

**Test Material Code # 202343**

**Method Proficiency Testing Report**

**# Labs Reporting: 91**

**# Methods Reported 210**

**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 (%)	2122	8.130	0.0600	8.413	0.4074	0.0970	4		0	
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0504	8.145	0.0900	8.413	0.4074	0.0970	4		0	
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0027	8.376	0.0380	8.413	0.4074	0.0970	4		0	
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0309	9.000	0.2000	8.413	0.4074	0.0970	4		0	
001.03	Loss on Drying, Low temp. methods (%)	2124	8.315	0.0100				2		0	
001.03	Loss on Drying, Low temp. methods (%)	0619	9.085	0.0100				2		0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2398	7.505	0.0900	8.382	0.1425	0.0800	49	-6.15	5% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0226	7.855	0.1700	8.382	0.1425	0.0800	49	-3.70	3% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0034	7.895	0.1700	8.382	0.1425	0.0800	49	-3.42	3% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0010	8.000	0.0000	8.382	0.1425	0.0800	49	-2.68	2% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2420	8.075	0.2700	8.382	0.1425	0.0800	49	-2.15	2% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0139	8.190	0.0800	8.382	0.1425	0.0800	49	-1.35	1% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2424	8.230	0.4600	8.382	0.1425	0.0800	49	-1.07	1% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2426	8.260	0.0400	8.382	0.1425	0.0800	49	-0.86	1% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2436	8.260	0.0200	8.382	0.1425	0.0800	49	-0.86	1% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2399	8.270	0.1000	8.382	0.1425	0.0800	49	-0.79	1% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2439	8.270	0.1000	8.382	0.1425	0.0800	49	-0.79	1% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2437	8.280	0.0200	8.382	0.1425	0.0800	49	-0.72	1% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	1020	8.290	0.0000	8.382	0.1425	0.0800	49	-0.64	1% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2438	8.300	0.1200	8.382	0.1425	0.0800	49	-0.57	0% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2435	8.320	0.1000	8.382	0.1425	0.0800	49	-0.43	0% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0171	8.325	0.0100	8.382	0.1425	0.0800	49	-0.40	0% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2382	8.335	0.0300	8.382	0.1425	0.0800	49	-0.33	0% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2385	8.335	0.1100	8.382	0.1425	0.0800	49	-0.33	0% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	1021	8.345	0.0500	8.382	0.1425	0.0800	49	-0.26	0% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2380	8.350	0.0200	8.382	0.1425	0.0800	49	-0.22	0% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2421	8.355	0.0300	8.382	0.1425	0.0800	49	-0.19	0% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2361	8.360	0.0000	8.382	0.1425	0.0800	49	-0.15	0% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2414	8.370	0.0400	8.382	0.1425	0.0800	49	-0.08	0% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2429	8.375	0.0100	8.382	0.1425	0.0800	49	-0.05	0% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2293	8.385	0.0300	8.382	0.1425	0.0800	49	0.02	0% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	1023	8.385	0.0100	8.382	0.1425	0.0800	49	0.02	0% 0	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2444	8.390	0.0400	8.382	0.1425	0.0800	49	0.06	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	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0142	8.405	0.1700	8.382	0.1425	0.0800	49	0.16	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	1022	8.405	0.0100	8.382	0.1425	0.0800	49	0.16	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	1024	8.415	0.3300	8.382	0.1425	0.0800	49	0.23	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2252	8.420	0.0400	8.382	0.1425	0.0800	49	0.27	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2124	8.430	0.1600	8.382	0.1425	0.0800	49	0.34	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2395	8.440	0.1400	8.382	0.1425	0.0800	49	0.41	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2422	8.450	0.0400	8.382	0.1425	0.0800	49	0.48	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2415	8.465	0.0900	8.382	0.1425	0.0800	49	0.58	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2331	8.470	0.0800	8.382	0.1425	0.0800	49	0.62	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0098	8.470	0.0200	8.382	0.1425	0.0800	49	0.62	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2330	8.475	0.0700	8.382	0.1425	0.0800	49	0.65	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2452	8.485	0.0300	8.382	0.1425	0.0800	49	0.72	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2219	8.490	0.3600	8.382	0.1425	0.0800	49	0.76	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2408	8.505	0.1300	8.382	0.1425	0.0800	49	0.86	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2396	8.525	0.1100	8.382	0.1425	0.0800	49	1.00	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2417	8.545	0.0300	8.382	0.1425	0.0800	49	1.14	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0845	8.550	0.1400	8.382	0.1425	0.0800	49	1.18	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2419	8.565	0.0700	8.382	0.1425	0.0800	49	1.29	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2220	8.595	0.0700	8.382	0.1425	0.0800	49	1.50	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2156	8.625	0.0900	8.382	0.1425	0.0800	49	1.71	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2362	8.675	0.0700	8.382	0.1425	0.0800	49	2.06	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0407	8.694	0.0339	8.382	0.1425	0.0800	49	2.19	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0074	8.190	0.5400	8.382	0.1425	0.0800	49	-1.35	1%	1
001.99	Loss on Drying, Miscellaneous (%)	0889	7.680	0.0000	8.079	0.3268	0.1150	4			0
001.99	Loss on Drying, Miscellaneous (%)	0918	7.985	0.1300	8.079	0.3268	0.1150	4			0
001.99	Loss on Drying, Miscellaneous (%)	0510	8.200	0.0000	8.079	0.3268	0.1150	4			0
001.99	Loss on Drying, Miscellaneous (%)	0914	8.450	0.1000	8.079	0.3268	0.1150	4			0
001.99	Loss on Drying, Miscellaneous (%)	2155	5.105	0.7900	8.079	0.3268	0.1150	4			2
002.00	Protein, Crude, Crude (%)	0845	8.055	0.0100				1			0
002.01	Protein, Crude, Auto Kjell-Foss (%)	0870	7.597	0.0080	7.674	0.0588	0.0470	4			0
002.01	Protein, Crude, Auto Kjell-Foss (%)	0164	7.660	0.0600	7.674	0.0588	0.0470	4			0
002.01	Protein, Crude, Auto Kjell-Foss (%)	0889	7.720	0.0800	7.674	0.0588	0.0470	4			0
002.01	Protein, Crude, Auto Kjell-Foss (%)	0619	7.720	0.0400	7.674	0.0588	0.0470	4			0
002.04	Protein, Crude, Copper Catalyst (%)	2122	7.520	0.1400				2			0
002.04	Protein, Crude, Copper Catalyst (%)	0504	7.635	0.0300				2			0
002.05	Protein, Crude, Copper, Boric Acid (%)	0407	6.055	0.0100				1			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2461	6.480	0.0400	7.601	0.1366	0.0675	78	-8.20	7%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0529	6.690	0.2600	7.601	0.1366	0.0675	78	-6.67	6%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0914	7.020	0.4400	7.601	0.1366	0.0675	78	-4.25	4%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2155	7.044	0.2010	7.601	0.1366	0.0675	78	-4.08	4%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0880	7.055	0.2300	7.601	0.1366	0.0675	78	-3.99	4%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2380	7.315	0.0300	7.601	0.1366	0.0675	78	-2.09	2%	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	0098	7.345	0.1700	7.601	0.1366	0.0675	78	-1.87	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2382	7.350	0.0400	7.601	0.1366	0.0675	78	-1.83	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0510	7.450	0.1000	7.601	0.1366	0.0675	78	-1.10	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0074	7.455	0.1900	7.601	0.1366	0.0675	78	-1.07	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2414	7.460	0.0800	7.601	0.1366	0.0675	78	-1.03	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0164	7.470	0.1800	7.601	0.1366	0.0675	78	-0.96	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2184	7.485	0.0700	7.601	0.1366	0.0675	78	-0.85	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0001	7.486	0.0050	7.601	0.1366	0.0675	78	-0.84	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2361	7.490	0.2400	7.601	0.1366	0.0675	78	-0.81	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0918	7.505	0.0300	7.601	0.1366	0.0675	78	-0.70	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2385	7.515	0.0100	7.601	0.1366	0.0675	78	-0.63	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2252	7.525	0.0715	7.601	0.1366	0.0675	78	-0.55	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2426	7.525	0.0100	7.601	0.1366	0.0675	78	-0.55	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2424	7.526	0.0590	7.601	0.1366	0.0675	78	-0.55	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	1019	7.535	0.4100	7.601	0.1366	0.0675	78	-0.48	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2330	7.535	0.0700	7.601	0.1366	0.0675	78	-0.48	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	1020	7.541	0.0650	7.601	0.1366	0.0675	78	-0.44	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0504	7.545	0.2300	7.601	0.1366	0.0675	78	-0.41	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0010	7.550	0.1000	7.601	0.1366	0.0675	78	-0.37	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2408	7.550	0.0600	7.601	0.1366	0.0675	78	-0.37	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2439	7.550	0.0400	7.601	0.1366	0.0675	78	-0.37	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2089	7.565	0.0500	7.601	0.1366	0.0675	78	-0.26	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2437	7.565	0.0100	7.601	0.1366	0.0675	78	-0.26	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2293	7.567	0.0785	7.601	0.1366	0.0675	78	-0.25	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2417	7.569	0.0324	7.601	0.1366	0.0675	78	-0.23	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2452	7.573	0.0053	7.601	0.1366	0.0675	78	-0.20	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2396	7.574	0.0347	7.601	0.1366	0.0675	78	-0.20	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2331	7.575	0.0900	7.601	0.1366	0.0675	78	-0.19	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2395	7.575	0.0100	7.601	0.1366	0.0675	78	-0.19	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2420	7.578	0.0358	7.601	0.1366	0.0675	78	-0.16	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0208	7.580	0.0600	7.601	0.1366	0.0675	78	-0.15	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2219	7.580	0.0600	7.601	0.1366	0.0675	78	-0.15	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2415	7.580	0.0200	7.601	0.1366	0.0675	78	-0.15	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2399	7.580	0.0129	7.601	0.1366	0.0675	78	-0.15	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2422	7.585	0.1079	7.601	0.1366	0.0675	78	-0.11	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2429	7.590	0.0200	7.601	0.1366	0.0675	78	-0.08	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2438	7.590	0.0400	7.601	0.1366	0.0675	78	-0.08	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2124	7.595	0.1500	7.601	0.1366	0.0675	78	-0.04	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0042	7.600	0.2000	7.601	0.1366	0.0675	78	0.00	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2362	7.600	0.0800	7.601	0.1366	0.0675	78	0.00	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0511	7.610	0.0200	7.601	0.1366	0.0675	78	0.07	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2156	7.615	0.0100	7.601	0.1366	0.0675	78	0.11	0%	0

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002.06	Protein, Crude, Combustion Nitrogen Analyzer	2421	7.615	0.0700	7.601	0.1366	0.0675	78	0.11	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2463	7.630	0.1400	7.601	0.1366	0.0675	78	0.22	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2419	7.630	0.0458	7.601	0.1366	0.0675	78	0.22	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2220	7.635	0.0100	7.601	0.1366	0.0675	78	0.25	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2398	7.639	0.0636	7.601	0.1366	0.0675	78	0.28	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	1021	7.645	0.0922	7.601	0.1366	0.0675	78	0.32	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2444	7.650	0.0200	7.601	0.1366	0.0675	78	0.36	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2436	7.655	0.1100	7.601	0.1366	0.0675	78	0.40	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0139	7.670	0.0000	7.601	0.1366	0.0675	78	0.51	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	1022	7.686	0.0192	7.601	0.1366	0.0675	78	0.62	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2435	7.690	0.1800	7.601	0.1366	0.0675	78	0.65	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0047	7.700	0.0000	7.601	0.1366	0.0675	78	0.73	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2462	7.700	0.1000	7.601	0.1366	0.0675	78	0.73	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	1023	7.706	0.0513	7.601	0.1366	0.0675	78	0.77	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0417	7.725	0.0500	7.601	0.1366	0.0675	78	0.91	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2312	7.725	0.0300	7.601	0.1366	0.0675	78	0.91	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0508	7.729	0.0491	7.601	0.1366	0.0675	78	0.94	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0619	7.740	0.0200	7.601	0.1366	0.0675	78	1.02	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0876	7.750	0.1000	7.601	0.1366	0.0675	78	1.09	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2460	7.790	0.0400	7.601	0.1366	0.0675	78	1.39	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0870	7.791	0.0063	7.601	0.1366	0.0675	78	1.39	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0026	7.792	0.0887	7.601	0.1366	0.0675	78	1.40	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0407	7.835	0.0020	7.601	0.1366	0.0675	78	1.72	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0142	7.860	0.0400	7.601	0.1366	0.0675	78	1.90	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	2033	7.860	0.0400	7.601	0.1366	0.0675	78	1.90	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0171	7.925	0.0300	7.601	0.1366	0.0675	78	2.38	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0027	7.967	0.0210	7.601	0.1366	0.0675	78	2.68	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0309	8.326	0.1661	7.601	0.1366	0.0675	78	5.31	5%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0034	8.481	0.0390	7.601	0.1366	0.0675	78	6.44	6%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	0226	8.530	0.0600	7.601	0.1366	0.0675	78	6.80	6%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer	1024	6.165	2.955	7.601	0.1366	0.0675	78	-10.51	9%	1
002.08	Protein, Crude, Cu/Ti (%)	0098	7.610	0.0200				1			0
002.11	Protein, Crude, NIR (%)	0889	12.48	0.2600				1			0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	0309	0.3335	0.0322	2.075	1.065	0.1304	5			0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2122	1.845	0.0100	2.075	1.065	0.1304	5			0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2293	2.410	0.1400	2.075	1.065	0.1304	5			0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2385	2.880	0.3000	2.075	1.065	0.1304	5			0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2444	2.905	0.1700	2.075	1.065	0.1304	5			0
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirec	0504	0.3100	0.0600				1			0
003.06	Fat, Crude, Pet Ether (%)	2033	0.3850	0.1100				2			0
003.06	Fat, Crude, Pet Ether (%)	0918	0.6700	0.2200				2			0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	0098	0.4950	0.1100				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	
003.10	Fat, Crude, Randall, Pet Ether (%)	2155	0.3290	0.0220	0.4308	0.0912	0.0430	7	-1.12	12%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0619	0.3530	0.0760	0.4308	0.0912	0.0430	7	-0.85	9%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2184	0.3850	0.0300	0.4308	0.0912	0.0430	7	-0.50	5%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0098	0.4250	0.0300	0.4308	0.0912	0.0430	7	-0.06	1%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0242	0.4700	0.0200	0.4308	0.0912	0.0430	7	0.43	5%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0889	0.5150	0.1700	0.4308	0.0912	0.0430	7	0.92	10%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0870	0.5386	0.0313	0.4308	0.0912	0.0430	7	1.18	13%	0
003.12	Fat, Crude, Hexane Ext (%)	0171	0.5100	0.0200				1			0
003.13	Fat, Crude, Randall, Hexane Ext. (%)	2373	0.3150	0.0100				3			0
003.13	Fat, Crude, Randall, Hexane Ext. (%)	0098	0.4050	0.0300				3			0
003.13	Fat, Crude, Randall, Hexane Ext. (%)	0870	0.6129	0.0098				3			0
003.14	Fat, Crude, Ankom (%)	0511	0.0750	0.0100	0.5609	0.3563	0.0561	10	-1.36	43%	0
003.14	Fat, Crude, Ankom (%)	2409	0.2950	0.0700	0.5609	0.3563	0.0561	10	-0.75	24%	0
003.14	Fat, Crude, Ankom (%)	0074	0.3350	0.0500	0.5609	0.3563	0.0561	10	-0.63	20%	0
003.14	Fat, Crude, Ankom (%)	0529	0.3500	0.0200	0.5609	0.3563	0.0561	10	-0.59	19%	0
003.14	Fat, Crude, Ankom (%)	0171	0.5600	0.0000	0.5609	0.3563	0.0561	10	0.00	0%	0
003.14	Fat, Crude, Ankom (%)	0619	0.5775	0.2450	0.5609	0.3563	0.0561	10	0.05	1%	0
003.14	Fat, Crude, Ankom (%)	0026	0.6300	0.1200	0.5609	0.3563	0.0561	10	0.19	6%	0
003.14	Fat, Crude, Ankom (%)	0407	0.7162	0.0617	0.5609	0.3563	0.0561	10	0.44	14%	0
003.14	Fat, Crude, Ankom (%)	0510	0.9750	0.0100	0.5609	0.3563	0.0561	10	1.16	37%	0
003.14	Fat, Crude, Ankom (%)	0226	1.285	0.0300	0.5609	0.3563	0.0561	10	2.03	65%	0
003.99	Fat, Crude, Miscellaneous (%)	2312	0.1050	0.0100				3			0
003.99	Fat, Crude, Miscellaneous (%)	0880	0.7000	0.0000				3			0
003.99	Fat, Crude, Miscellaneous (%)	1019	11.37	3.060				3			0
004.00	Fiber, Crude, Asbestos Free (%)	0164	14.65	0.1000	15.44	0.6485	0.2160	4			0
004.00	Fiber, Crude, Asbestos Free (%)	0309	15.17	0.0240	15.44	0.6485	0.2160	4			0
004.00	Fiber, Crude, Asbestos Free (%)	0171	15.94	0.3400	15.44	0.6485	0.2160	4			0
004.00	Fiber, Crude, Asbestos Free (%)	0208	16.00	0.4000	15.44	0.6485	0.2160	4			0
004.00	Fiber, Crude, Asbestos Free (%)	2312	15.90	1.600	15.44	0.6485	0.2160	4			1
004.03	Fiber, Crude, Fritted Glass (%)	2089	14.77	0.0000				1			0
004.06	Fiber, Crude, Fibertec (%)	0027	15.13	0.2550				3			0
004.06	Fiber, Crude, Fibertec (%)	0918	15.99	0.2500				3			0
004.06	Fiber, Crude, Fibertec (%)	0845	16.01	0.1000				3			0
004.07	Fiber, Crude, ANKOM (%)	0510	14.25	0.1000	15.40	0.5764	0.4528	15	-1.99	4%	0
004.07	Fiber, Crude, ANKOM (%)	2033	14.58	0.2500	15.40	0.5764	0.4528	15	-1.43	3%	0
004.07	Fiber, Crude, ANKOM (%)	0026	15.00	0.4000	15.40	0.5764	0.4528	15	-0.69	1%	0
004.07	Fiber, Crude, ANKOM (%)	0870	15.09	0.1998	15.40	0.5764	0.4528	15	-0.54	1%	0
004.07	Fiber, Crude, ANKOM (%)	0226	15.18	0.1300	15.40	0.5764	0.4528	15	-0.39	1%	0
004.07	Fiber, Crude, ANKOM (%)	0034	15.23	0.9700	15.40	0.5764	0.4528	15	-0.30	1%	0
004.07	Fiber, Crude, ANKOM (%)	0407	15.24	0.6866	15.40	0.5764	0.4528	15	-0.28	1%	0
004.07	Fiber, Crude, ANKOM (%)	0074	15.30	0.0100	15.40	0.5764	0.4528	15	-0.18	0%	0
004.07	Fiber, Crude, ANKOM (%)	0876	15.45	0.3000	15.40	0.5764	0.4528	15	0.09	0%	0

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004.07	Fiber, Crude, ANKOM (%)	0914	15.50	0.6000	15.40	0.5764	0.4528	15	0.18	0%	0
004.07	Fiber, Crude, ANKOM (%)	0504	15.81	0.0000	15.40	0.5764	0.4528	15	0.72	1%	0
004.07	Fiber, Crude, ANKOM (%)	0529	15.86	0.7200	15.40	0.5764	0.4528	15	0.80	2%	0
004.07	Fiber, Crude, ANKOM (%)	0619	15.90	0.0000	15.40	0.5764	0.4528	15	0.87	2%	0
004.07	Fiber, Crude, ANKOM (%)	0511	16.05	0.9000	15.40	0.5764	0.4528	15	1.13	2%	0
004.07	Fiber, Crude, ANKOM (%)	2409	17.25	0.6200	15.40	0.5764	0.4528	15	3.21	6%	0
004.11	Fiber, Crude, NIR (%)	0889	26.39	0.0300				1			0
005.00	Ash, 2h @ 600°C (%)	0417	5.135	0.0100	6.416	0.4344	0.1845	44	-2.95	10%	0
005.00	Ash, 2h @ 600°C (%)	2415	5.445	0.2100	6.416	0.4344	0.1845	44	-2.23	8%	0
005.00	Ash, 2h @ 600°C (%)	2124	5.750	0.2800	6.416	0.4344	0.1845	44	-1.53	5%	0
005.00	Ash, 2h @ 600°C (%)	2184	5.770	1.180	6.416	0.4344	0.1845	44	-1.49	5%	0
005.00	Ash, 2h @ 600°C (%)	0098	5.805	0.1300	6.416	0.4344	0.1845	44	-1.41	5%	0
005.00	Ash, 2h @ 600°C (%)	0164	5.885	0.0300	6.416	0.4344	0.1845	44	-1.22	4%	0
005.00	Ash, 2h @ 600°C (%)	0027	5.964	0.2010	6.416	0.4344	0.1845	44	-1.04	4%	0
005.00	Ash, 2h @ 600°C (%)	2408	5.970	0.1200	6.416	0.4344	0.1845	44	-1.03	3%	0
005.00	Ash, 2h @ 600°C (%)	2302	6.030	0.0000	6.416	0.4344	0.1845	44	-0.89	3%	0
005.00	Ash, 2h @ 600°C (%)	0870	6.112	0.1963	6.416	0.4344	0.1845	44	-0.70	2%	0
005.00	Ash, 2h @ 600°C (%)	2373	6.125	0.0300	6.416	0.4344	0.1845	44	-0.67	2%	0
005.00	Ash, 2h @ 600°C (%)	0510	6.180	0.3200	6.416	0.4344	0.1845	44	-0.54	2%	0
005.00	Ash, 2h @ 600°C (%)	0876	6.200	0.0000	6.416	0.4344	0.1845	44	-0.50	2%	0
005.00	Ash, 2h @ 600°C (%)	0208	6.210	0.6000	6.416	0.4344	0.1845	44	-0.47	2%	0
005.00	Ash, 2h @ 600°C (%)	2252	6.215	0.3100	6.416	0.4344	0.1845	44	-0.46	2%	0
005.00	Ash, 2h @ 600°C (%)	2220	6.235	0.3300	6.416	0.4344	0.1845	44	-0.42	1%	0
005.00	Ash, 2h @ 600°C (%)	2396	6.255	0.5700	6.416	0.4344	0.1845	44	-0.37	1%	0
005.00	Ash, 2h @ 600°C (%)	0142	6.320	0.0000	6.416	0.4344	0.1845	44	-0.22	1%	0
005.00	Ash, 2h @ 600°C (%)	0504	6.340	0.0400	6.416	0.4344	0.1845	44	-0.17	1%	0
005.00	Ash, 2h @ 600°C (%)	2361	6.340	0.0200	6.416	0.4344	0.1845	44	-0.17	1%	0
005.00	Ash, 2h @ 600°C (%)	0047	6.350	0.7000	6.416	0.4344	0.1845	44	-0.15	1%	0
005.00	Ash, 2h @ 600°C (%)	0171	6.400	0.0800	6.416	0.4344	0.1845	44	-0.04	0%	0
005.00	Ash, 2h @ 600°C (%)	2293	6.415	0.0700	6.416	0.4344	0.1845	44	0.00	0%	0
005.00	Ash, 2h @ 600°C (%)	2362	6.455	0.0900	6.416	0.4344	0.1845	44	0.09	0%	0
005.00	Ash, 2h @ 600°C (%)	2330	6.530	0.3800	6.416	0.4344	0.1845	44	0.26	1%	0
005.00	Ash, 2h @ 600°C (%)	0309	6.550	0.1000	6.416	0.4344	0.1845	44	0.31	1%	0
005.00	Ash, 2h @ 600°C (%)	2331	6.555	0.0700	6.416	0.4344	0.1845	44	0.32	1%	0
005.00	Ash, 2h @ 600°C (%)	2033	6.630	0.0800	6.416	0.4344	0.1845	44	0.49	2%	0
005.00	Ash, 2h @ 600°C (%)	0001	6.637	0.0880	6.416	0.4344	0.1845	44	0.51	2%	0
005.00	Ash, 2h @ 600°C (%)	0880	6.670	0.3400	6.416	0.4344	0.1845	44	0.59	2%	0
005.00	Ash, 2h @ 600°C (%)	2122	6.715	0.2900	6.416	0.4344	0.1845	44	0.69	2%	0
005.00	Ash, 2h @ 600°C (%)	1020	6.735	0.1100	6.416	0.4344	0.1845	44	0.73	2%	0
005.00	Ash, 2h @ 600°C (%)	2395	6.760	0.4600	6.416	0.4344	0.1845	44	0.79	3%	0
005.00	Ash, 2h @ 600°C (%)	0226	6.795	0.0700	6.416	0.4344	0.1845	44	0.87	3%	0
005.00	Ash, 2h @ 600°C (%)	2219	6.795	0.5300	6.416	0.4344	0.1845	44	0.87	3%	0

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005.00	Ash, 2h @ 600°C (%)	2414	6.800	0.0000	6.416	0.4344	0.1845	44	0.88	3%	0
005.00	Ash, 2h @ 600°C (%)	2380	6.805	0.0100	6.416	0.4344	0.1845	44	0.90	3%	0
005.00	Ash, 2h @ 600°C (%)	0918	6.825	0.0300	6.416	0.4344	0.1845	44	0.94	3%	0
005.00	Ash, 2h @ 600°C (%)	0407	6.834	0.0481	6.416	0.4344	0.1845	44	0.96	3%	0
005.00	Ash, 2h @ 600°C (%)	2089	6.835	0.1900	6.416	0.4344	0.1845	44	0.97	3%	0
005.00	Ash, 2h @ 600°C (%)	2312	6.860	0.2400	6.416	0.4344	0.1845	44	1.02	3%	0
005.00	Ash, 2h @ 600°C (%)	2382	7.000	0.0200	6.416	0.4344	0.1845	44	1.34	5%	0
005.00	Ash, 2h @ 600°C (%)	2385	7.030	0.0800	6.416	0.4344	0.1845	44	1.41	5%	0
005.00	Ash, 2h @ 600°C (%)	0242	7.480	0.1400	6.416	0.4344	0.1845	44	2.45	8%	0
005.00	Ash, 2h @ 600°C (%)	1019	6.025	2.010	6.416	0.4344	0.1845	44	-0.90	3%	1
005.03	Ash, Microwave furnace (%)	2429	5.940	0.0400	6.266	0.2026	0.2383	6	-1.61	3%	0
005.03	Ash, Microwave furnace (%)	2439	6.195	0.2300	6.266	0.2026	0.2383	6	-0.35	1%	0
005.03	Ash, Microwave furnace (%)	2437	6.240	0.3800	6.266	0.2026	0.2383	6	-0.13	0%	0
005.03	Ash, Microwave furnace (%)	0511	6.350	0.5000	6.266	0.2026	0.2383	6	0.41	1%	0
005.03	Ash, Microwave furnace (%)	2436	6.380	0.2000	6.266	0.2026	0.2383	6	0.56	1%	0
005.03	Ash, Microwave furnace (%)	2438	6.470	0.0800	6.266	0.2026	0.2383	6	1.01	2%	0
005.05	Ash, 3h @ 550°C (%)	2417	5.310	0.4800	6.350	0.4839	0.2101	19	-2.15	8%	0
005.05	Ash, 3h @ 550°C (%)	2426	5.435	0.2100	6.350	0.4839	0.2101	19	-1.89	7%	0
005.05	Ash, 3h @ 550°C (%)	2422	5.720	0.2600	6.350	0.4839	0.2101	19	-1.30	5%	0
005.05	Ash, 3h @ 550°C (%)	2399	5.870	0.6200	6.350	0.4839	0.2101	19	-0.99	4%	0
005.05	Ash, 3h @ 550°C (%)	2419	5.950	0.0600	6.350	0.4839	0.2101	19	-0.83	3%	0
005.05	Ash, 3h @ 550°C (%)	2421	6.115	0.0500	6.350	0.4839	0.2101	19	-0.49	2%	0
005.05	Ash, 3h @ 550°C (%)	2424	6.200	0.0400	6.350	0.4839	0.2101	19	-0.31	1%	0
005.05	Ash, 3h @ 550°C (%)	1021	6.360	0.2000	6.350	0.4839	0.2101	19	0.02	0%	0
005.05	Ash, 3h @ 550°C (%)	2452	6.440	0.0200	6.350	0.4839	0.2101	19	0.19	1%	0
005.05	Ash, 3h @ 550°C (%)	0845	6.455	0.4100	6.350	0.4839	0.2101	19	0.22	1%	0
005.05	Ash, 3h @ 550°C (%)	2444	6.475	0.4100	6.350	0.4839	0.2101	19	0.26	1%	0
005.05	Ash, 3h @ 550°C (%)	0889	6.510	0.0400	6.350	0.4839	0.2101	19	0.33	1%	0
005.05	Ash, 3h @ 550°C (%)	0619	6.625	0.0500	6.350	0.4839	0.2101	19	0.57	2%	0
005.05	Ash, 3h @ 550°C (%)	2398	6.635	0.0700	6.350	0.4839	0.2101	19	0.59	2%	0
005.05	Ash, 3h @ 550°C (%)	1024	6.670	0.0800	6.350	0.4839	0.2101	19	0.66	3%	0
005.05	Ash, 3h @ 550°C (%)	1022	6.720	0.2200	6.350	0.4839	0.2101	19	0.76	3%	0
005.05	Ash, 3h @ 550°C (%)	2420	6.770	0.3600	6.350	0.4839	0.2101	19	0.87	3%	0
005.05	Ash, 3h @ 550°C (%)	0034	6.843	0.3716	6.350	0.4839	0.2101	19	1.02	4%	0
005.05	Ash, 3h @ 550°C (%)	0139	7.045	0.1700	6.350	0.4839	0.2101	19	1.44	5%	0
005.05	Ash, 3h @ 550°C (%)	1023	6.350	1.300	6.350	0.4839	0.2101	19	0.00	0%	1
005.11	Ash, NIR (%)	0889	7.453	0.5050				1			0
005.99	Ash, Miscellaneous (%)	0914	7.040	0.1000				2			0
005.99	Ash, Miscellaneous (%)	0910	7.100	0.6000				2			0
006.00	Total Sugars, As sucrose (%)	0407	19.83	1.460				1			0
006.99	Total Sugars, Miscellaneous (%)	0918	17.57	0.4900				3			0
006.99	Total Sugars, Miscellaneous (%)	0226	18.00	0.6100				3			0

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			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
006.99	Total Sugars, Miscellaneous (%)	2312	19.04	2.550				3			0
008.02	Fiber, Acid Detergent, Crucible (%)	0226	20.81	0.5400				2			0
008.02	Fiber, Acid Detergent, Crucible (%)	0309	21.60	0.1509				2			0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0619	18.48	0.1100	21.01	1.467	0.4129	10	-1.73	6%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0026	19.70	0.1900	21.01	1.467	0.4129	10	-0.89	3%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0504	19.71	0.6500	21.01	1.467	0.4129	10	-0.89	3%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0889	20.32	0.1100	21.01	1.467	0.4129	10	-0.47	2%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0407	20.93	0.4337	21.01	1.467	0.4129	10	-0.06	0%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0164	21.95	0.7000	21.01	1.467	0.4129	10	0.64	2%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0001	22.10	0.5770	21.01	1.467	0.4129	10	0.75	3%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0870	22.12	0.0404	21.01	1.467	0.4129	10	0.76	3%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0918	22.16	1.430	21.01	1.467	0.4129	10	0.78	3%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0511	22.30	0.4000	21.01	1.467	0.4129	10	0.88	3%	0
008.99	Fiber, Acid Detergent, Miscellaneous (%)	0027	18.80	0.0400				1			0
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat	0226	34.08	0.4300				2			0
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat	0309	36.13	0.3471				2			0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0619	30.25	0.3200	35.04	1.330	0.4989	7	-3.60	7%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0889	34.26	0.0600	35.04	1.330	0.4989	7	-0.58	1%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0504	34.88	0.0100	35.04	1.330	0.4989	7	-0.12	0%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0407	35.14	0.3866	35.04	1.330	0.4989	7	0.08	0%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0164	35.20	0.8000	35.04	1.330	0.4989	7	0.12	0%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0870	36.16	0.6714	35.04	1.330	0.4989	7	0.85	2%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0918	36.57	1.250	35.04	1.330	0.4989	7	1.15	2%	0
009.99	Fiber, Neutral Detergent, Miscellaneous (%)	0889	49.65	0.1750				1			0
010.03	Moisture, Karl-Fischer (%)	0164	8.745	0.1100				2			0
010.03	Moisture, Karl-Fischer (%)	2250	8.895	0.0300				2			0
010.11	Moisture, NIR (%)	0889	8.618	0.2050				1			0
010.99	Moisture, Miscellaneous (%)	2089	8.220	0.0200				1			0
011.01	Loss on Drying, HT, 135°C 2hr (%)	1019	7.740	0.0200	9.010	0.4946	0.1313	18	-2.57	7%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0309	8.306	0.0240	9.010	0.4946	0.1313	18	-1.42	4%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0880	8.525	0.0700	9.010	0.4946	0.1313	18	-0.98	3%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2312	8.530	0.4400	9.010	0.4946	0.1313	18	-0.97	3%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0164	8.650	0.1000	9.010	0.4946	0.1313	18	-0.73	2%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0098	8.850	0.2000	9.010	0.4946	0.1313	18	-0.32	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0511	8.875	0.3500	9.010	0.4946	0.1313	18	-0.27	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2302	9.000	0.0000	9.010	0.4946	0.1313	18	-0.02	0%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0226	9.050	0.1800	9.010	0.4946	0.1313	18	0.08	0%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0208	9.090	0.1200	9.010	0.4946	0.1313	18	0.16	0%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2184	9.125	0.2700	9.010	0.4946	0.1313	18	0.23	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0171	9.165	0.0500	9.010	0.4946	0.1313	18	0.31	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2033	9.165	0.0300	9.010	0.4946	0.1313	18	0.31	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0870	9.304	0.0764	9.010	0.4946	0.1313	18	0.59	2%	0



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011.01	Loss on Drying, HT, 135°C 2hr (%)	0242	9.355	0.2900	9.010	0.4946	0.1313	18	0.70	2%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2373	9.425	0.0500	9.010	0.4946	0.1313	18	0.84	2%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0407	10.26	0.0196	9.010	0.4946	0.1313	18	2.53	7%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0510	10.35	0.1000	9.010	0.4946	0.1313	18	2.71	7%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0047	9.800	1.400	9.010	0.4946	0.1313	18	1.60	4%	1
011.02	Loss on Drying, HT, 130°C for 2 hours (%)	0417	8.720	0.2400				2			0
011.02	Loss on Drying, HT, 130°C for 2 hours (%)	0529	9.115	0.0300				2			0
012.00	Starch, Polarimetric (Ewers) (%)	0619	10.85	1.100				1			0
012.01	Starch, Enzymatic-Colorimetric Method (Megaz	0407	0.3381	0.0694				3			0
012.01	Starch, Enzymatic-Colorimetric Method (Megaz	0870	1.374	0.0199				3			0
012.01	Starch, Enzymatic-Colorimetric Method (Megaz	2089	2.185	0.0100				3			0
012.03	Starch, Enzymatic-Colorimetric Method, Miscell	0407	1.430	0.0171				1			0
012.04	Starch, Enzymatic-Enzyme Membrane Technol	0510	0.6000	0.0000				1			0
012.11	Starch, NIR (%)	0889	14.56	0.7950				1			0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2435	0.7100	0.1000	1.312	0.8822	0.1250	10	-0.68	23%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2438	0.7200	0.0400	1.312	0.8822	0.1250	10	-0.67	23%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2436	0.7500	0.0400	1.312	0.8822	0.1250	10	-0.64	21%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2437	0.7800	0.1800	1.312	0.8822	0.1250	10	-0.60	20%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2439	0.8200	0.2600	1.312	0.8822	0.1250	10	-0.56	19%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2429	0.8750	0.1900	1.312	0.8822	0.1250	10	-0.49	17%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	0242	1.280	0.1400	1.312	0.8822	0.1250	10	-0.04	1%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	2220	2.040	0.1200	1.312	0.8822	0.1250	10	0.83	28%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	0309	2.526	0.1191	1.312	0.8822	0.1250	10	1.38	46%	0
013.00	Fat, Pretreat, Acid hydrolysis (%)	0139	2.615	0.0900	1.312	0.8822	0.1250	10	1.48	50%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2362	1.655	0.1500	2.340	0.3248	0.1688	32	-2.11	15%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2156	1.880	0.3600	2.340	0.3248	0.1688	32	-1.42	10%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	1021	1.970	0.0600	2.340	0.3248	0.1688	32	-1.14	8%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2422	1.975	0.0700	2.340	0.3248	0.1688	32	-1.12	8%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2414	2.020	0.2600	2.340	0.3248	0.1688	32	-0.99	7%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	0914	2.025	0.0500	2.340	0.3248	0.1688	32	-0.97	7%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2395	2.055	0.5100	2.340	0.3248	0.1688	32	-0.88	6%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2426	2.125	0.2700	2.340	0.3248	0.1688	32	-0.66	5%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2424	2.145	0.4300	2.340	0.3248	0.1688	32	-0.60	4%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	0208	2.150	0.0000	2.340	0.3248	0.1688	32	-0.58	4%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2396	2.150	0.1000	2.340	0.3248	0.1688	32	-0.58	4%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	0098	2.160	0.2200	2.340	0.3248	0.1688	32	-0.55	4%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2361	2.170	0.0200	2.340	0.3248	0.1688	32	-0.52	4%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2331	2.235	0.0500	2.340	0.3248	0.1688	32	-0.32	2%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2330	2.260	0.3800	2.340	0.3248	0.1688	32	-0.25	2%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	0164	2.270	0.0200	2.340	0.3248	0.1688	32	-0.22	1%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	0407	2.361	0.0010	2.340	0.3248	0.1688	32	0.06	0%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2399	2.410	0.0200	2.340	0.3248	0.1688	32	0.22	1%	0

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013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2452	2.445	0.0700	2.340	0.3248	0.1688	32	0.32	2%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2417	2.475	0.3100	2.340	0.3248	0.1688	32	0.42	3%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	1020	2.475	0.2100	2.340	0.3248	0.1688	32	0.42	3%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	1023	2.490	0.1000	2.340	0.3248	0.1688	32	0.46	3%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	0870	2.506	0.0521	2.340	0.3248	0.1688	32	0.51	4%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	1022	2.605	0.0900	2.340	0.3248	0.1688	32	0.82	6%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2415	2.630	0.1200	2.340	0.3248	0.1688	32	0.89	6%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2419	2.635	0.1500	2.340	0.3248	0.1688	32	0.91	6%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2252	2.645	0.5700	2.340	0.3248	0.1688	32	0.94	7%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2382	2.680	0.0400	2.340	0.3248	0.1688	32	1.05	7%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2380	2.695	0.1100	2.340	0.3248	0.1688	32	1.09	8%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2398	2.750	0.0800	2.340	0.3248	0.1688	32	1.26	9%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2421	2.805	0.4900	2.340	0.3248	0.1688	32	1.43	10%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	1024	2.940	0.2600	2.340	0.3248	0.1688	32	1.85	13%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolys	2420	2.960	0.8600	2.340	0.3248	0.1688	32	1.91	13%	1
013.10	Fat, Pretreat, Soxtec-Acid Hydrolysis (%)	2124	1.045	0.0500				2			0
013.10	Fat, Pretreat, Soxtec-Acid Hydrolysis (%)	0845	1.120	0.5200				2			0
013.13	Fat, Pretreat, Ankom- Acid Hydrolysis (%)	0407	3.447	0.1968				1			0
014.01	Fiber, Total Dietary, Enz-Grav (%)	0227	55.65	0.3000				1			0
015.41	Aluminum, ICP, Dry ash (ppm)	0407	479.4	32.94				1			0
015.43	Aluminum, ICP, Microwave (ppm)	0407	420.0	32.87				3			0
015.43	Aluminum, ICP, Microwave (ppm)	0510	502.5	13.00				3			0
015.43	Aluminum, ICP, Microwave (ppm)	0226	923.2	4.960				3			0
015.53	Aluminum, ICP-MS, Microwave (ppm)	0407	493.7	14.52				1			0
017.41	Boron, ICP, Dry ash (ppm)	0407	32.07	0.0584				1			0
017.43	Boron, ICP, Microwave (ppm)	0510	30.50	1.000				3			0
017.43	Boron, ICP, Microwave (ppm)	0226	31.65	0.5100				3			0
017.43	Boron, ICP, Microwave (ppm)	0407	32.40	0.1495				3			0
017.53	Boron, ICP-MS, Microwave (ppm)	0407	30.75	0.5480				1			0
019.00	Calcium, Ox-Mn04 Vol. (%)	2373	0.9500	0.0400				1			0
019.31	Calcium, AAS, Dry ash (%)	0001	0.7193	0.0122				3			0
019.31	Calcium, AAS, Dry ash (%)	0142	0.7386	0.1482				3			0
019.31	Calcium, AAS, Dry ash (%)	0529	0.7650	0.0100				3			0
019.41	Calcium, ICP, Dry ash (%)	0139	0.7150	0.0300	0.7557	0.0313	0.0269	15	-1.30	3%	0
019.41	Calcium, ICP, Dry ash (%)	0619	0.7225	0.0010	0.7557	0.0313	0.0269	15	-1.06	2%	0
019.41	Calcium, ICP, Dry ash (%)	2444	0.7250	0.0300	0.7557	0.0313	0.0269	15	-0.98	2%	0
019.41	Calcium, ICP, Dry ash (%)	1021	0.7350	0.0300	0.7557	0.0313	0.0269	15	-0.66	1%	0
019.41	Calcium, ICP, Dry ash (%)	1024	0.7350	0.0100	0.7557	0.0313	0.0269	15	-0.66	1%	0
019.41	Calcium, ICP, Dry ash (%)	1022	0.7400	0.0600	0.7557	0.0313	0.0269	15	-0.50	1%	0
019.41	Calcium, ICP, Dry ash (%)	0910	0.7450	0.0500	0.7557	0.0313	0.0269	15	-0.34	1%	0
019.41	Calcium, ICP, Dry ash (%)	2399	0.7600	0.0000	0.7557	0.0313	0.0269	15	0.14	0%	0
019.41	Calcium, ICP, Dry ash (%)	0164	0.7630	0.0100	0.7557	0.0313	0.0269	15	0.23	0%	0

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019.41	Calcium, ICP, Dry ash (%)	0098	0.7650	0.0100	0.7557	0.0313	0.0269	15	0.30	1%	0
019.41	Calcium, ICP, Dry ash (%)	2398	0.7700	0.0400	0.7557	0.0313	0.0269	15	0.46	1%	0
019.41	Calcium, ICP, Dry ash (%)	0171	0.7750	0.0100	0.7557	0.0313	0.0269	15	0.62	1%	0
019.41	Calcium, ICP, Dry ash (%)	0074	0.7800	0.0000	0.7557	0.0313	0.0269	15	0.78	2%	0
019.41	Calcium, ICP, Dry ash (%)	0407	0.8091	0.0424	0.7557	0.0313	0.0269	15	1.71	4%	0
019.41	Calcium, ICP, Dry ash (%)	0226	0.8350	0.0300	0.7557	0.0313	0.0269	15	2.53	5%	0
019.41	Calcium, ICP, Dry ash (%)	1023	0.8900	0.2400	0.7557	0.0313	0.0269	15	4.29	9%	1
019.42	Calcium, ICP, Open vessel (%)	0026	0.5540	0.0500				3			0
019.42	Calcium, ICP, Open vessel (%)	0870	0.7569	0.0348				3			0
019.42	Calcium, ICP, Open vessel (%)	0504	0.7690	0.0280				3			0
019.43	Calcium, ICP, Microwave (%)	0028	0.6850	0.0900	0.7829	0.0465	0.0343	19	-2.10	6%	0
019.43	Calcium, ICP, Microwave (%)	2033	0.7350	0.0100	0.7829	0.0465	0.0343	19	-1.03	3%	0
019.43	Calcium, ICP, Microwave (%)	2439	0.7428	0.0629	0.7829	0.0465	0.0343	19	-0.86	3%	0
019.43	Calcium, ICP, Microwave (%)	2124	0.7450	0.0100	0.7829	0.0465	0.0343	19	-0.81	2%	0
019.43	Calcium, ICP, Microwave (%)	0511	0.7550	0.0900	0.7829	0.0465	0.0343	19	-0.60	2%	0
019.43	Calcium, ICP, Microwave (%)	0510	0.7600	0.0200	0.7829	0.0465	0.0343	19	-0.49	1%	0
019.43	Calcium, ICP, Microwave (%)	2437	0.7650	0.0100	0.7829	0.0465	0.0343	19	-0.38	1%	0
019.43	Calcium, ICP, Microwave (%)	2438	0.7650	0.0100	0.7829	0.0465	0.0343	19	-0.38	1%	0
019.43	Calcium, ICP, Microwave (%)	2436	0.7661	0.0328	0.7829	0.0465	0.0343	19	-0.36	1%	0
019.43	Calcium, ICP, Microwave (%)	2435	0.7663	0.0298	0.7829	0.0465	0.0343	19	-0.36	1%	0
019.43	Calcium, ICP, Microwave (%)	2089	0.7800	0.0400	0.7829	0.0465	0.0343	19	-0.06	0%	0
019.43	Calcium, ICP, Microwave (%)	0010	0.7900	0.0000	0.7829	0.0465	0.0343	19	0.15	0%	0
019.43	Calcium, ICP, Microwave (%)	2429	0.7921	0.0149	0.7829	0.0465	0.0343	19	0.20	1%	0
019.43	Calcium, ICP, Microwave (%)	0027	0.8020	0.0080	0.7829	0.0465	0.0343	19	0.41	1%	0
019.43	Calcium, ICP, Microwave (%)	0098	0.8150	0.0100	0.7829	0.0465	0.0343	19	0.69	2%	0
019.43	Calcium, ICP, Microwave (%)	0407	0.8332	0.0585	0.7829	0.0465	0.0343	19	1.08	3%	0
019.43	Calcium, ICP, Microwave (%)	0918	0.8445	0.0490	0.7829	0.0465	0.0343	19	1.32	4%	0
019.43	Calcium, ICP, Microwave (%)	0870	0.8573	0.0796	0.7829	0.0465	0.0343	19	1.60	5%	0
019.43	Calcium, ICP, Microwave (%)	0226	0.9050	0.0100	0.7829	0.0465	0.0343	19	2.62	8%	0
019.44	Calcium, ICP, Dry ash (%)	2419	0.6700	0.0000	0.7405	0.0385	0.0260	25	-1.83	5%	0
019.44	Calcium, ICP, Dry ash (%)	2424	0.6850	0.0500	0.7405	0.0385	0.0260	25	-1.44	4%	0
019.44	Calcium, ICP, Dry ash (%)	2426	0.6900	0.0000	0.7405	0.0385	0.0260	25	-1.31	3%	0
019.44	Calcium, ICP, Dry ash (%)	2417	0.6950	0.0300	0.7405	0.0385	0.0260	25	-1.18	3%	0
019.44	Calcium, ICP, Dry ash (%)	2421	0.7050	0.0100	0.7405	0.0385	0.0260	25	-0.92	2%	0
019.44	Calcium, ICP, Dry ash (%)	2414	0.7100	0.0200	0.7405	0.0385	0.0260	25	-0.79	2%	0
019.44	Calcium, ICP, Dry ash (%)	2422	0.7150	0.0300	0.7405	0.0385	0.0260	25	-0.66	2%	0
019.44	Calcium, ICP, Dry ash (%)	2452	0.7150	0.0100	0.7405	0.0385	0.0260	25	-0.66	2%	0
019.44	Calcium, ICP, Dry ash (%)	2415	0.7200	0.0200	0.7405	0.0385	0.0260	25	-0.53	1%	0
019.44	Calcium, ICP, Dry ash (%)	2382	0.7250	0.0100	0.7405	0.0385	0.0260	25	-0.40	1%	0
019.44	Calcium, ICP, Dry ash (%)	2380	0.7300	0.0200	0.7405	0.0385	0.0260	25	-0.27	1%	0
019.44	Calcium, ICP, Dry ash (%)	2420	0.7450	0.0500	0.7405	0.0385	0.0260	25	0.12	0%	0
019.44	Calcium, ICP, Dry ash (%)	2362	0.7500	0.0000	0.7405	0.0385	0.0260	25	0.25	1%	0

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019.44	Calcium, ICP, Dry ash (%)	2408	0.7505	0.0090	0.7405	0.0385	0.0260	25	0.26	1%	0
019.44	Calcium, ICP, Dry ash (%)	2385	0.7550	0.0100	0.7405	0.0385	0.0260	25	0.38	1%	0
019.44	Calcium, ICP, Dry ash (%)	2361	0.7590	0.0280	0.7405	0.0385	0.0260	25	0.48	1%	0
019.44	Calcium, ICP, Dry ash (%)	2220	0.7600	0.0400	0.7405	0.0385	0.0260	25	0.51	1%	0
019.44	Calcium, ICP, Dry ash (%)	2219	0.7650	0.0500	0.7405	0.0385	0.0260	25	0.64	2%	0
019.44	Calcium, ICP, Dry ash (%)	2396	0.7720	0.0200	0.7405	0.0385	0.0260	25	0.82	2%	0
019.44	Calcium, ICP, Dry ash (%)	2330	0.7735	0.0090	0.7405	0.0385	0.0260	25	0.86	2%	0
019.44	Calcium, ICP, Dry ash (%)	2395	0.7760	0.0220	0.7405	0.0385	0.0260	25	0.92	2%	0
019.44	Calcium, ICP, Dry ash (%)	2293	0.7790	0.0520	0.7405	0.0385	0.0260	25	1.00	3%	0
019.44	Calcium, ICP, Dry ash (%)	2252	0.7830	0.0560	0.7405	0.0385	0.0260	25	1.10	3%	0
019.44	Calcium, ICP, Dry ash (%)	1020	0.7850	0.0100	0.7405	0.0385	0.0260	25	1.16	3%	0
019.44	Calcium, ICP, Dry ash (%)	2331	0.7860	0.0180	0.7405	0.0385	0.0260	25	1.18	3%	0
019.52	Calcium, ICP-MS, Open vessel (%)	0047	0.8750	0.1100				1			0
019.53	Calcium, ICP-MS, Microwave (%)	2409	0.7565	0.0050				3			0
019.53	Calcium, ICP-MS, Microwave (%)	2428	0.7750	0.0300				3			0
019.53	Calcium, ICP-MS, Microwave (%)	0407	0.8572	0.0296				3			0
019.99	Calcium, Miscellaneous (%)	0242	0.7450	0.0100				3			0
019.99	Calcium, Miscellaneous (%)	0889	0.7800	0.0200				3			0
019.99	Calcium, Miscellaneous (%)	2302	1.120	0.0000				3			0
021.00	Cobalt, Color (ppm)	0226	8.555	0.6300				1			0
021.31	Cobalt, AAS, Dry ash (ppm)	0164	11.00	0.0000				1			0
021.41	Cobalt, ICP, Dry ash (ppm)	0619	4.035	0.0700				3			0
021.41	Cobalt, ICP, Dry ash (ppm)	0407	10.66	1.097				3			0
021.41	Cobalt, ICP, Dry ash (ppm)	0171	12.75	0.7000				3			0
021.43	Cobalt, ICP, Microwave (ppm)	0510	10.08	0.1300				3			0
021.43	Cobalt, ICP, Microwave (ppm)	0027	13.36	0.0990				3			0
021.43	Cobalt, ICP, Microwave (ppm)	2033	14.41	0.1000				3			0
021.43	Cobalt, ICP, Microwave (ppm)	0407	9.473	1.135				3			1
021.53	Cobalt, ICP-MS, Microwave (ppm)	2428	7.000	8.000				2			0
021.53	Cobalt, ICP-MS, Microwave (ppm)	0407	10.71	0.6599				2			0
022.31	Copper, AAS, Dry ash (ppm)	0529	< 9.6					0			5
022.33	Copper, AAS, Microwave (ppm)	0010	5.700	0.4000				1			0
022.41	Copper, ICP, Dry ash (ppm)	2415	4.281	0.5720	5.006	0.6722	0.2750	9	-1.08	7%	0
022.41	Copper, ICP, Dry ash (ppm)	0139	4.525	0.2700	5.006	0.6722	0.2750	9	-0.72	5%	0
022.41	Copper, ICP, Dry ash (ppm)	2398	4.573	0.1810	5.006	0.6722	0.2750	9	-0.64	4%	0
022.41	Copper, ICP, Dry ash (ppm)	2444	4.588	0.1710	5.006	0.6722	0.2750	9	-0.62	4%	0
022.41	Copper, ICP, Dry ash (ppm)	0171	4.850	0.1600	5.006	0.6722	0.2750	9	-0.23	2%	0
022.41	Copper, ICP, Dry ash (ppm)	0407	5.086	0.3386	5.006	0.6722	0.2750	9	0.12	1%	0
022.41	Copper, ICP, Dry ash (ppm)	0098	5.485	0.5100	5.006	0.6722	0.2750	9	0.71	5%	0
022.41	Copper, ICP, Dry ash (ppm)	0164	5.650	0.1000	5.006	0.6722	0.2750	9	0.96	6%	0
022.41	Copper, ICP, Dry ash (ppm)	0226	6.330	0.2000	5.006	0.6722	0.2750	9	1.97	13%	0
022.41	Copper, ICP, Dry ash (ppm)	0074	6.000	2.000	5.006	0.6722	0.2750	9	1.48	10%	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			
022.42	Copper, ICP, Open vessel (ppm)	0870	4.900	0.0360				2			0
022.42	Copper, ICP, Open vessel (ppm)	0026	4.923	2.916				2			0
022.43	Copper, ICP, Microwave (ppm)	0511	4.500	1.000	5.258	0.4583	0.3269	18	-1.65	7%	0
022.43	Copper, ICP, Microwave (ppm)	2124	4.835	0.0300	5.258	0.4583	0.3269	18	-0.92	4%	0
022.43	Copper, ICP, Microwave (ppm)	0098	4.930	0.0600	5.258	0.4583	0.3269	18	-0.72	3%	0
022.43	Copper, ICP, Microwave (ppm)	2436	4.950	0.1000	5.258	0.4583	0.3269	18	-0.67	3%	0
022.43	Copper, ICP, Microwave (ppm)	0870	4.986	0.2390	5.258	0.4583	0.3269	18	-0.59	3%	0
022.43	Copper, ICP, Microwave (ppm)	0510	5.000	0.0000	5.258	0.4583	0.3269	18	-0.56	2%	0
022.43	Copper, ICP, Microwave (ppm)	2437	5.000	0.4000	5.258	0.4583	0.3269	18	-0.56	2%	0
022.43	Copper, ICP, Microwave (ppm)	2439	5.050	0.1000	5.258	0.4583	0.3269	18	-0.45	2%	0
022.43	Copper, ICP, Microwave (ppm)	2438	5.125	0.0500	5.258	0.4583	0.3269	18	-0.29	1%	0
022.43	Copper, ICP, Microwave (ppm)	0028	5.130	0.9000	5.258	0.4583	0.3269	18	-0.28	1%	0
022.43	Copper, ICP, Microwave (ppm)	2429	5.325	0.1500	5.258	0.4583	0.3269	18	0.15	1%	0
022.43	Copper, ICP, Microwave (ppm)	2033	5.350	0.1000	5.258	0.4583	0.3269	18	0.20	1%	0
022.43	Copper, ICP, Microwave (ppm)	2428	5.400	0.0000	5.258	0.4583	0.3269	18	0.31	1%	0
022.43	Copper, ICP, Microwave (ppm)	0918	5.480	0.1600	5.258	0.4583	0.3269	18	0.48	2%	0
022.43	Copper, ICP, Microwave (ppm)	0407	5.763	0.6859	5.258	0.4583	0.3269	18	1.10	5%	0
022.43	Copper, ICP, Microwave (ppm)	0027	5.855	0.2430	5.258	0.4583	0.3269	18	1.30	6%	0
022.43	Copper, ICP, Microwave (ppm)	0226	6.660	0.3600	5.258	0.4583	0.3269	18	3.06	13%	0
022.43	Copper, ICP, Microwave (ppm)	2089	6.720	0.9000	5.258	0.4583	0.3269	18	3.19	14%	0
022.44	Copper, ICP, Dry ash (ppm)	1022	4.237	0.0850	4.795	0.2490	0.2281	19	-2.24	6%	0
022.44	Copper, ICP, Dry ash (ppm)	2414	4.284	0.0470	4.795	0.2490	0.2281	19	-2.05	5%	0
022.44	Copper, ICP, Dry ash (ppm)	2362	4.525	0.2100	4.795	0.2490	0.2281	19	-1.08	3%	0
022.44	Copper, ICP, Dry ash (ppm)	2220	4.605	0.1900	4.795	0.2490	0.2281	19	-0.76	2%	0
022.44	Copper, ICP, Dry ash (ppm)	2219	4.610	0.8800	4.795	0.2490	0.2281	19	-0.74	2%	0
022.44	Copper, ICP, Dry ash (ppm)	2252	4.682	0.2110	4.795	0.2490	0.2281	19	-0.46	1%	0
022.44	Copper, ICP, Dry ash (ppm)	2361	4.741	0.3630	4.795	0.2490	0.2281	19	-0.22	1%	0
022.44	Copper, ICP, Dry ash (ppm)	2380	4.758	0.1860	4.795	0.2490	0.2281	19	-0.15	0%	0
022.44	Copper, ICP, Dry ash (ppm)	1021	4.775	0.2530	4.795	0.2490	0.2281	19	-0.08	0%	0
022.44	Copper, ICP, Dry ash (ppm)	2293	4.798	0.3740	4.795	0.2490	0.2281	19	0.01	0%	0
022.44	Copper, ICP, Dry ash (ppm)	2382	4.811	0.2020	4.795	0.2490	0.2281	19	0.06	0%	0
022.44	Copper, ICP, Dry ash (ppm)	2385	4.839	0.1590	4.795	0.2490	0.2281	19	0.17	0%	0
022.44	Copper, ICP, Dry ash (ppm)	2395	4.888	0.2120	4.795	0.2490	0.2281	19	0.37	1%	0
022.44	Copper, ICP, Dry ash (ppm)	2408	4.900	0.1870	4.795	0.2490	0.2281	19	0.42	1%	0
022.44	Copper, ICP, Dry ash (ppm)	2331	4.973	0.2970	4.795	0.2490	0.2281	19	0.71	2%	0
022.44	Copper, ICP, Dry ash (ppm)	0910	5.000	0.0000	4.795	0.2490	0.2281	19	0.82	2%	0
022.44	Copper, ICP, Dry ash (ppm)	2330	5.025	0.5580	4.795	0.2490	0.2281	19	0.92	2%	0
022.44	Copper, ICP, Dry ash (ppm)	1024	5.231	0.2500	4.795	0.2490	0.2281	19	1.75	5%	0
022.44	Copper, ICP, Dry ash (ppm)	1020	8.521	0.0070	4.795	0.2490	0.2281	19	14.96	39%	0
022.44	Copper, ICP, Dry ash (ppm)	1023	9.470	9.021	4.795	0.2490	0.2281	19	18.77	49%	1
022.53	Copper, ICP-MS, Microwave (ppm)	0407	5.402	0.1751				2			0
022.53	Copper, ICP-MS, Microwave (ppm)	2409	5.425	0.0700				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			
022.99	Copper, Miscellaneous (ppm)	0242	5.000	0.0000				1		0	
025.31	Iron, AAS, Dry ash (ppm)	0001	619.3	25.50				2		0	
025.31	Iron, AAS, Dry ash (ppm)	0529	626.6	3.600				2		0	
025.41	Iron, ICP, Dry ash (ppm)	0619	584.0	6.000	614.1	22.84	29.36	8	-1.32	2%	0
025.41	Iron, ICP, Dry ash (ppm)	0226	593.0	4.670	614.1	22.84	29.36	8	-0.92	2%	0
025.41	Iron, ICP, Dry ash (ppm)	0407	595.1	64.69	614.1	22.84	29.36	8	-0.83	2%	0
025.41	Iron, ICP, Dry ash (ppm)	0171	620.0	20.00	614.1	22.84	29.36	8	0.26	0%	0
025.41	Iron, ICP, Dry ash (ppm)	0164	626.0	6.000	614.1	22.84	29.36	8	0.52	1%	0
025.41	Iron, ICP, Dry ash (ppm)	0074	627.0	64.00	614.1	22.84	29.36	8	0.56	1%	0
025.41	Iron, ICP, Dry ash (ppm)	0098	632.3	18.50	614.1	22.84	29.36	8	0.79	1%	0
025.41	Iron, ICP, Dry ash (ppm)	0910	635.5	51.00	614.1	22.84	29.36	8	0.94	2%	0
025.42	Iron, ICP, Open vessel (ppm)	0026	548.5	55.49				3		0	
025.42	Iron, ICP, Open vessel (ppm)	0870	586.1	16.90				3		0	
025.42	Iron, ICP, Open vessel (ppm)	0504	688.5	103.0				3		0	
025.43	Iron, ICP, Microwave (ppm)	0918	440.2	5.460	637.3	105.2	29.98	12	-1.87	15%	0
025.43	Iron, ICP, Microwave (ppm)	0028	523.4	55.32	637.3	105.2	29.98	12	-1.08	9%	0
025.43	Iron, ICP, Microwave (ppm)	2124	576.6	1.500	637.3	105.2	29.98	12	-0.58	5%	0
025.43	Iron, ICP, Microwave (ppm)	0407	601.9	62.21	637.3	105.2	29.98	12	-0.34	3%	0
025.43	Iron, ICP, Microwave (ppm)	0511	606.5	83.00	637.3	105.2	29.98	12	-0.29	2%	0
025.43	Iron, ICP, Microwave (ppm)	0510	607.5	11.00	637.3	105.2	29.98	12	-0.28	2%	0
025.43	Iron, ICP, Microwave (ppm)	0010	637.5	11.90	637.3	105.2	29.98	12	0.00	0%	0
025.43	Iron, ICP, Microwave (ppm)	2089	662.9	3.780	637.3	105.2	29.98	12	0.24	2%	0
025.43	Iron, ICP, Microwave (ppm)	0098	680.8	7.700	637.3	105.2	29.98	12	0.41	3%	0
025.43	Iron, ICP, Microwave (ppm)	2033	705.0	10.00	637.3	105.2	29.98	12	0.64	5%	0
025.43	Iron, ICP, Microwave (ppm)	0226	771.4	23.79	637.3	105.2	29.98	12	1.27	11%	0
025.43	Iron, ICP, Microwave (ppm)	0027	800.9	97.07	637.3	105.2	29.98	12	1.55	13%	0
025.43	Iron, ICP, Microwave (ppm)	0870	647.3	234.8	637.3	105.2	29.98	12	0.09	1%	1
025.52	Iron, ICP-MS, Open vessel (ppm)	0047	522.2	45.23				1		0	
025.53	Iron, ICP-MS, Microwave (ppm)	2428	600.0	80.00				3		0	
025.53	Iron, ICP-MS, Microwave (ppm)	0407	628.1	19.10				3		0	
025.53	Iron, ICP-MS, Microwave (ppm)	2409	837.0	2.700				3		0	
025.99	Iron, Miscellaneous (ppm)	0242	777.5	5.000				1		0	
027.31	Magnesium, AAS, Dry ash (%)	0001	0.2209	0.0008				3		0	
027.31	Magnesium, AAS, Dry ash (%)	0529	0.2250	0.0100				3		0	
027.31	Magnesium, AAS, Dry ash (%)	0142	0.2294	0.0004				3		0	
027.33	Magnesium, AAS, Microwave (%)	0010	0.2400	0.0000				1		0	
027.41	Magnesium, ICP, Dry ash (%)	1022	0.1965	0.0030	0.2170	0.0175	0.0076	16	-1.17	5%	0
027.41	Magnesium, ICP, Dry ash (%)	1024	0.1995	0.0010	0.2170	0.0175	0.0076	16	-1.00	4%	0
027.41	Magnesium, ICP, Dry ash (%)	0139	0.2000	0.0000	0.2170	0.0175	0.0076	16	-0.97	4%	0
027.41	Magnesium, ICP, Dry ash (%)	1021	0.2000	0.0000	0.2170	0.0175	0.0076	16	-0.97	4%	0
027.41	Magnesium, ICP, Dry ash (%)	2444	0.2045	0.0010	0.2170	0.0175	0.0076	16	-0.71	3%	0
027.41	Magnesium, ICP, Dry ash (%)	2399	0.2045	0.0030	0.2170	0.0175	0.0076	16	-0.71	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	
027.41	Magnesium, ICP, Dry ash (%)	1023	0.2120	0.0140	0.2170	0.0175	0.0076	16	-0.28	1%	0
027.41	Magnesium, ICP, Dry ash (%)	2398	0.2125	0.0170	0.2170	0.0175	0.0076	16	-0.26	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0910	0.2150	0.0100	0.2170	0.0175	0.0076	16	-0.11	0%	0
027.41	Magnesium, ICP, Dry ash (%)	0098	0.2250	0.0100	0.2170	0.0175	0.0076	16	0.46	2%	0
027.41	Magnesium, ICP, Dry ash (%)	0164	0.2250	0.0140	0.2170	0.0175	0.0076	16	0.46	2%	0
027.41	Magnesium, ICP, Dry ash (%)	0171	0.2300	0.0000	0.2170	0.0175	0.0076	16	0.74	3%	0
027.41	Magnesium, ICP, Dry ash (%)	0619	0.2340	0.0040	0.2170	0.0175	0.0076	16	0.97	4%	0
027.41	Magnesium, ICP, Dry ash (%)	0074	0.2350	0.0100	0.2170	0.0175	0.0076	16	1.03	4%	0
027.41	Magnesium, ICP, Dry ash (%)	0226	0.2350	0.0100	0.2170	0.0175	0.0076	16	1.03	4%	0
027.41	Magnesium, ICP, Dry ash (%)	0407	0.2449	0.0013	0.2170	0.0175	0.0076	16	1.59	6%	0
027.42	Magnesium, ICP, Open vessel (%)	0026	0.1750	0.0120				3			0
027.42	Magnesium, ICP, Open vessel (%)	0870	0.2254	0.0024				3			0
027.42	Magnesium, ICP, Open vessel (%)	0504	0.2310	0.0020				3			0
027.43	Magnesium, ICP, Microwave (%)	0028	0.2050	0.0300	0.2296	0.0122	0.0120	17	-2.01	5%	0
027.43	Magnesium, ICP, Microwave (%)	0510	0.2100	0.0000	0.2296	0.0122	0.0120	17	-1.60	4%	0
027.43	Magnesium, ICP, Microwave (%)	0511	0.2150	0.0300	0.2296	0.0122	0.0120	17	-1.19	3%	0
027.43	Magnesium, ICP, Microwave (%)	2124	0.2200	0.0000	0.2296	0.0122	0.0120	17	-0.79	2%	0
027.43	Magnesium, ICP, Microwave (%)	2438	0.2250	0.0100	0.2296	0.0122	0.0120	17	-0.38	1%	0
027.43	Magnesium, ICP, Microwave (%)	2439	0.2254	0.0131	0.2296	0.0122	0.0120	17	-0.35	1%	0
027.43	Magnesium, ICP, Microwave (%)	2436	0.2276	0.0095	0.2296	0.0122	0.0120	17	-0.17	0%	0
027.43	Magnesium, ICP, Microwave (%)	2435	0.2287	0.0039	0.2296	0.0122	0.0120	17	-0.08	0%	0
027.43	Magnesium, ICP, Microwave (%)	2089	0.2300	0.0000	0.2296	0.0122	0.0120	17	0.03	0%	0
027.43	Magnesium, ICP, Microwave (%)	2437	0.2300	0.0000	0.2296	0.0122	0.0120	17	0.03	0%	0
027.43	Magnesium, ICP, Microwave (%)	0226	0.2350	0.0100	0.2296	0.0122	0.0120	17	0.44	1%	0
027.43	Magnesium, ICP, Microwave (%)	0918	0.2375	0.0030	0.2296	0.0122	0.0120	17	0.65	2%	0
027.43	Magnesium, ICP, Microwave (%)	2429	0.2390	0.0105	0.2296	0.0122	0.0120	17	0.76	2%	0
027.43	Magnesium, ICP, Microwave (%)	0870	0.2399	0.0138	0.2296	0.0122	0.0120	17	0.84	2%	0
027.43	Magnesium, ICP, Microwave (%)	0098	0.2400	0.0000	0.2296	0.0122	0.0120	17	0.85	2%	0
027.43	Magnesium, ICP, Microwave (%)	2033	0.2400	0.0000	0.2296	0.0122	0.0120	17	0.85	2%	0
027.43	Magnesium, ICP, Microwave (%)	0407	0.2497	0.0129	0.2296	0.0122	0.0120	17	1.64	4%	0
027.44	Magnesium, ICP, Dry ash (%)	2419	0.1835	0.0010	0.2009	0.0090	0.0053	25	-1.93	4%	0
027.44	Magnesium, ICP, Dry ash (%)	2421	0.1845	0.0010	0.2009	0.0090	0.0053	25	-1.82	4%	0
027.44	Magnesium, ICP, Dry ash (%)	2424	0.1850	0.0100	0.2009	0.0090	0.0053	25	-1.77	4%	0
027.44	Magnesium, ICP, Dry ash (%)	2420	0.1900	0.0000	0.2009	0.0090	0.0053	25	-1.21	3%	0
027.44	Magnesium, ICP, Dry ash (%)	2426	0.1900	0.0000	0.2009	0.0090	0.0053	25	-1.21	3%	0
027.44	Magnesium, ICP, Dry ash (%)	2452	0.1900	0.0000	0.2009	0.0090	0.0053	25	-1.21	3%	0
027.44	Magnesium, ICP, Dry ash (%)	2417	0.1925	0.0070	0.2009	0.0090	0.0053	25	-0.94	2%	0
027.44	Magnesium, ICP, Dry ash (%)	2361	0.2005	0.0150	0.2009	0.0090	0.0053	25	-0.05	0%	0
027.44	Magnesium, ICP, Dry ash (%)	2293	0.2015	0.0150	0.2009	0.0090	0.0053	25	0.06	0%	0
027.44	Magnesium, ICP, Dry ash (%)	2380	0.2020	0.0040	0.2009	0.0090	0.0053	25	0.12	0%	0
027.44	Magnesium, ICP, Dry ash (%)	2395	0.2025	0.0110	0.2009	0.0090	0.0053	25	0.17	0%	0
027.44	Magnesium, ICP, Dry ash (%)	2422	0.2025	0.0150	0.2009	0.0090	0.0053	25	0.17	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	
027.44	Magnesium, ICP, Dry ash (%)	2382	0.2045	0.0030	0.2009	0.0090	0.0053	25	0.39	1%	0
027.44	Magnesium, ICP, Dry ash (%)	2219	0.2050	0.0000	0.2009	0.0090	0.0053	25	0.45	1%	0
027.44	Magnesium, ICP, Dry ash (%)	2362	0.2050	0.0020	0.2009	0.0090	0.0053	25	0.45	1%	0
027.44	Magnesium, ICP, Dry ash (%)	2408	0.2050	0.0020	0.2009	0.0090	0.0053	25	0.45	1%	0
027.44	Magnesium, ICP, Dry ash (%)	2415	0.2050	0.0020	0.2009	0.0090	0.0053	25	0.45	1%	0
027.44	Magnesium, ICP, Dry ash (%)	1020	0.2055	0.0030	0.2009	0.0090	0.0053	25	0.50	1%	0
027.44	Magnesium, ICP, Dry ash (%)	2220	0.2055	0.0010	0.2009	0.0090	0.0053	25	0.50	1%	0
027.44	Magnesium, ICP, Dry ash (%)	2414	0.2060	0.0040	0.2009	0.0090	0.0053	25	0.56	1%	0
027.44	Magnesium, ICP, Dry ash (%)	2396	0.2085	0.0030	0.2009	0.0090	0.0053	25	0.84	2%	0
027.44	Magnesium, ICP, Dry ash (%)	2385	0.2090	0.0080	0.2009	0.0090	0.0053	25	0.89	2%	0
027.44	Magnesium, ICP, Dry ash (%)	2330	0.2095	0.0030	0.2009	0.0090	0.0053	25	0.95	2%	0
027.44	Magnesium, ICP, Dry ash (%)	2252	0.2100	0.0080	0.2009	0.0090	0.0053	25	1.00	2%	0
027.44	Magnesium, ICP, Dry ash (%)	2331	0.2115	0.0010	0.2009	0.0090	0.0053	25	1.17	3%	0
027.52	Magnesium, ICP-MS, Open vessel (%)	0047	0.2200	0.0200				1			0
027.53	Magnesium, ICP-MS, Microwave (%)	0407	0.2358	0.0100				3			0
027.53	Magnesium, ICP-MS, Microwave (%)	2428	0.2450	0.0100				3			0
027.53	Magnesium, ICP-MS, Microwave (%)	2409	0.2455	0.0010				3			0
027.99	Magnesium, Miscellaneous (%)	0889	0.2000	0.0000				3			0
027.99	Magnesium, Miscellaneous (%)	2302	0.2200	0.0000				3			0
027.99	Magnesium, Miscellaneous (%)	0242	11.62	22.77				3			0
028.31	Manganese, AAS, Dry ash (ppm)	0001	43.48	1.180				2			0
028.31	Manganese, AAS, Dry ash (ppm)	0529	47.55	0.1000				2			0
028.33	Manganese, AAS, Microwave (ppm)	0010	43.25	0.7000				1			0
028.41	Manganese, ICP, Dry ash (ppm)	0164	43.00	0.0000	44.48	1.379	1.314	15	-1.07	2%	0
028.41	Manganese, ICP, Dry ash (ppm)	0910	43.00	2.000	44.48	1.379	1.314	15	-1.07	2%	0
028.41	Manganese, ICP, Dry ash (ppm)	0407	43.15	2.884	44.48	1.379	1.314	15	-0.96	1%	0
028.41	Manganese, ICP, Dry ash (ppm)	1021	43.53	0.3600	44.48	1.379	1.314	15	-0.69	1%	0
028.41	Manganese, ICP, Dry ash (ppm)	1022	43.71	0.9600	44.48	1.379	1.314	15	-0.56	1%	0
028.41	Manganese, ICP, Dry ash (ppm)	0074	44.00	2.000	44.48	1.379	1.314	15	-0.35	1%	0
028.41	Manganese, ICP, Dry ash (ppm)	0226	44.06	0.1800	44.48	1.379	1.314	15	-0.31	0%	0
028.41	Manganese, ICP, Dry ash (ppm)	2399	44.20	1.220	44.48	1.379	1.314	15	-0.20	0%	0
028.41	Manganese, ICP, Dry ash (ppm)	1024	44.35	0.5800	44.48	1.379	1.314	15	-0.10	0%	0
028.41	Manganese, ICP, Dry ash (ppm)	0139	44.64	0.3700	44.48	1.379	1.314	15	0.11	0%	0
028.41	Manganese, ICP, Dry ash (ppm)	0171	44.90	2.200	44.48	1.379	1.314	15	0.30	0%	0
028.41	Manganese, ICP, Dry ash (ppm)	0098	45.40	2.070	44.48	1.379	1.314	15	0.66	1%	0
028.41	Manganese, ICP, Dry ash (ppm)	0619	46.20	0.2000	44.48	1.379	1.314	15	1.25	2%	0
028.41	Manganese, ICP, Dry ash (ppm)	2396	46.84	0.3000	44.48	1.379	1.314	15	1.71	3%	0
028.41	Manganese, ICP, Dry ash (ppm)	2398	47.12	3.150	44.48	1.379	1.314	15	1.91	3%	0
028.41	Manganese, ICP, Dry ash (ppm)	1023	51.03	12.76	44.48	1.379	1.314	15	4.75	7%	1
028.42	Manganese, ICP, Open vessel (ppm)	0026	35.24	1.180				3			0
028.42	Manganese, ICP, Open vessel (ppm)	0870	36.03	1.180				3			0
028.42	Manganese, ICP, Open vessel (ppm)	0504	44.35	3.900				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	
028.43	Manganese, ICP, Microwave (ppm)	0028	41.29	4.750	46.24	2.395	1.368	17	-2.07	5%	0
028.43	Manganese, ICP, Microwave (ppm)	0511	41.50	3.000	46.24	2.395	1.368	17	-1.98	5%	0
028.43	Manganese, ICP, Microwave (ppm)	0510	44.00	0.0000	46.24	2.395	1.368	17	-0.94	2%	0
028.43	Manganese, ICP, Microwave (ppm)	2124	44.26	0.8600	46.24	2.395	1.368	17	-0.83	2%	0
028.43	Manganese, ICP, Microwave (ppm)	0407	44.35	2.382	46.24	2.395	1.368	17	-0.79	2%	0
028.43	Manganese, ICP, Microwave (ppm)	2439	44.70	2.800	46.24	2.395	1.368	17	-0.64	2%	0
028.43	Manganese, ICP, Microwave (ppm)	0918	46.40	0.7500	46.24	2.395	1.368	17	0.06	0%	0
028.43	Manganese, ICP, Microwave (ppm)	2437	46.45	0.5000	46.24	2.395	1.368	17	0.09	0%	0
028.43	Manganese, ICP, Microwave (ppm)	2436	46.50	1.600	46.24	2.395	1.368	17	0.11	0%	0
028.43	Manganese, ICP, Microwave (ppm)	2435	47.03	2.550	46.24	2.395	1.368	17	0.33	1%	0
028.43	Manganese, ICP, Microwave (ppm)	2033	47.16	0.6200	46.24	2.395	1.368	17	0.38	1%	0
028.43	Manganese, ICP, Microwave (ppm)	2429	47.75	0.4000	46.24	2.395	1.368	17	0.63	2%	0
028.43	Manganese, ICP, Microwave (ppm)	0098	47.85	0.4400	46.24	2.395	1.368	17	0.67	2%	0
028.43	Manganese, ICP, Microwave (ppm)	0027	48.05	0.0200	46.24	2.395	1.368	17	0.76	2%	0
028.43	Manganese, ICP, Microwave (ppm)	0226	48.13	0.3900	46.24	2.395	1.368	17	0.79	2%	0
028.43	Manganese, ICP, Microwave (ppm)	2438	48.35	0.7000	46.24	2.395	1.368	17	0.88	2%	0
028.43	Manganese, ICP, Microwave (ppm)	2089	52.59	1.660	46.24	2.395	1.368	17	2.65	7%	0
028.43	Manganese, ICP, Microwave (ppm)	0870	39.76	8.080	46.24	2.395	1.368	17	-2.71	7%	1
028.44	Manganese, ICP, Dry ash (ppm)	2419	39.39	0.3100	43.87	2.845	1.360	22	-1.58	5%	0
028.44	Manganese, ICP, Dry ash (ppm)	2426	39.84	1.260	43.87	2.845	1.360	22	-1.42	5%	0
028.44	Manganese, ICP, Dry ash (ppm)	2424	40.06	2.610	43.87	2.845	1.360	22	-1.34	4%	0
028.44	Manganese, ICP, Dry ash (ppm)	2417	40.32	2.490	43.87	2.845	1.360	22	-1.25	4%	0
028.44	Manganese, ICP, Dry ash (ppm)	2421	40.44	0.0800	43.87	2.845	1.360	22	-1.21	4%	0
028.44	Manganese, ICP, Dry ash (ppm)	2420	42.15	1.120	43.87	2.845	1.360	22	-0.60	2%	0
028.44	Manganese, ICP, Dry ash (ppm)	2452	42.33	0.3300	43.87	2.845	1.360	22	-0.54	2%	0
028.44	Manganese, ICP, Dry ash (ppm)	2422	43.33	1.460	43.87	2.845	1.360	22	-0.19	1%	0
028.44	Manganese, ICP, Dry ash (ppm)	2414	43.56	0.5100	43.87	2.845	1.360	22	-0.11	0%	0
028.44	Manganese, ICP, Dry ash (ppm)	2380	44.20	0.1900	43.87	2.845	1.360	22	0.11	0%	0
028.44	Manganese, ICP, Dry ash (ppm)	2415	44.47	0.7600	43.87	2.845	1.360	22	0.21	1%	0
028.44	Manganese, ICP, Dry ash (ppm)	2382	45.00	0.4800	43.87	2.845	1.360	22	0.40	1%	0
028.44	Manganese, ICP, Dry ash (ppm)	2408	45.02	0.7800	43.87	2.845	1.360	22	0.40	1%	0
028.44	Manganese, ICP, Dry ash (ppm)	2361	45.10	3.570	43.87	2.845	1.360	22	0.43	1%	0
028.44	Manganese, ICP, Dry ash (ppm)	2444	45.36	0.1900	43.87	2.845	1.360	22	0.52	2%	0
028.44	Manganese, ICP, Dry ash (ppm)	2293	45.50	3.290	43.87	2.845	1.360	22	0.57	2%	0
028.44	Manganese, ICP, Dry ash (ppm)	2395	45.56	2.540	43.87	2.845	1.360	22	0.59	2%	0
028.44	Manganese, ICP, Dry ash (ppm)	2252	45.64	2.750	43.87	2.845	1.360	22	0.62	2%	0
028.44	Manganese, ICP, Dry ash (ppm)	2385	46.58	2.060	43.87	2.845	1.360	22	0.95	3%	0
028.44	Manganese, ICP, Dry ash (ppm)	2330	46.80	2.020	43.87	2.845	1.360	22	1.03	3%	0
028.44	Manganese, ICP, Dry ash (ppm)	1020	46.84	0.5900	43.87	2.845	1.360	22	1.04	3%	0
028.44	Manganese, ICP, Dry ash (ppm)	2331	47.46	1.120	43.87	2.845	1.360	22	1.26	4%	0
028.52	Manganese, ICP-MS, Open vessel (ppm)	0047	50.05	5.020				1			0
028.53	Manganese, ICP-MS, Microwave (ppm)	2409	42.82	0.0800				3			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			
028.53	Manganese, ICP-MS, Microwave (ppm)	0407	46.02	1.934				3			0
028.53	Manganese, ICP-MS, Microwave (ppm)	2428	46.50	1.000				3			0
028.99	Manganese, Miscellaneous (ppm)	0242	47.50	1.000				1			0
031.01	Phosphorus, Photometric (%)	0142	0.1143	0.0053				1			0
031.41	Phosphorus, ICP, Dry ash (%)	0139	0.0700	0.0000	0.0854	0.0073	0.0066	12	-2.12	9%	0
031.41	Phosphorus, ICP, Dry ash (%)	0164	0.0800	0.0020	0.0854	0.0073	0.0066	12	-0.74	3%	0
031.41	Phosphorus, ICP, Dry ash (%)	0910	0.0800	0.0000	0.0854	0.0073	0.0066	12	-0.74	3%	0
031.41	Phosphorus, ICP, Dry ash (%)	0407	0.0819	0.0011	0.0854	0.0073	0.0066	12	-0.49	2%	0
031.41	Phosphorus, ICP, Dry ash (%)	0098	0.0826	0.0003	0.0854	0.0073	0.0066	12	-0.39	2%	0
031.41	Phosphorus, ICP, Dry ash (%)	0619	0.0845	0.0030	0.0854	0.0073	0.0066	12	-0.12	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	1021	0.0850	0.0100	0.0854	0.0073	0.0066	12	-0.05	0%	0
031.41	Phosphorus, ICP, Dry ash (%)	2398	0.0850	0.0100	0.0854	0.0073	0.0066	12	-0.05	0%	0
031.41	Phosphorus, ICP, Dry ash (%)	1024	0.0900	0.0000	0.0854	0.0073	0.0066	12	0.63	3%	0
031.41	Phosphorus, ICP, Dry ash (%)	2399	0.0900	0.0000	0.0854	0.0073	0.0066	12	0.63	3%	0
031.41	Phosphorus, ICP, Dry ash (%)	1023	0.0950	0.0100	0.0854	0.0073	0.0066	12	1.32	6%	0
031.41	Phosphorus, ICP, Dry ash (%)	0226	0.1400	0.0200	0.0854	0.0073	0.0066	12	7.51	32%	0
031.42	Phosphorus, ICP, Open vessel (%)	0870	0.0783	0.0049				3			0
031.42	Phosphorus, ICP, Open vessel (%)	0026	0.0795	0.0070				3			0
031.42	Phosphorus, ICP, Open vessel (%)	0504	0.0795	0.0010				3			0
031.43	Phosphorus, ICP, Microwave (%)	0028	0.0750	0.0100	0.0825	0.0057	0.0059	14	-1.30	5%	0
031.43	Phosphorus, ICP, Microwave (%)	2438	0.0775	0.0010	0.0825	0.0057	0.0059	14	-0.87	3%	0
031.43	Phosphorus, ICP, Microwave (%)	2439	0.0775	0.0076	0.0825	0.0057	0.0059	14	-0.87	3%	0
031.43	Phosphorus, ICP, Microwave (%)	2436	0.0792	0.0045	0.0825	0.0057	0.0059	14	-0.58	2%	0
031.43	Phosphorus, ICP, Microwave (%)	2124	0.0800	0.0000	0.0825	0.0057	0.0059	14	-0.43	1%	0
031.43	Phosphorus, ICP, Microwave (%)	2437	0.0800	0.0000	0.0825	0.0057	0.0059	14	-0.43	1%	0
031.43	Phosphorus, ICP, Microwave (%)	2435	0.0801	0.0019	0.0825	0.0057	0.0059	14	-0.42	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0098	0.0824	0.0000	0.0825	0.0057	0.0059	14	-0.01	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0407	0.0829	0.0058	0.0825	0.0057	0.0059	14	0.08	0%	0
031.43	Phosphorus, ICP, Microwave (%)	2429	0.0835	0.0041	0.0825	0.0057	0.0059	14	0.17	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0870	0.0856	0.0121	0.0825	0.0057	0.0059	14	0.54	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0510	0.0900	0.0000	0.0825	0.0057	0.0059	14	1.31	5%	0
031.43	Phosphorus, ICP, Microwave (%)	2089	0.0900	0.0000	0.0825	0.0057	0.0059	14	1.31	5%	0
031.43	Phosphorus, ICP, Microwave (%)	0226	0.1600	0.0000	0.0825	0.0057	0.0059	14	13.52	47%	0
031.44	Phosphorus, ICP, Dry ash (%)	2414	0.0600	0.0000	0.0861	0.0063	0.0100	27	-4.11	15%	0
031.44	Phosphorus, ICP, Dry ash (%)	2382	0.0700	0.0000	0.0861	0.0063	0.0100	27	-2.54	9%	0
031.44	Phosphorus, ICP, Dry ash (%)	2380	0.0750	0.0100	0.0861	0.0063	0.0100	27	-1.75	6%	0
031.44	Phosphorus, ICP, Dry ash (%)	2385	0.0800	0.0000	0.0861	0.0063	0.0100	27	-0.96	4%	0
031.44	Phosphorus, ICP, Dry ash (%)	2424	0.0800	0.0000	0.0861	0.0063	0.0100	27	-0.96	4%	0
031.44	Phosphorus, ICP, Dry ash (%)	2444	0.0800	0.0000	0.0861	0.0063	0.0100	27	-0.96	4%	0
031.44	Phosphorus, ICP, Dry ash (%)	2408	0.0830	0.0160	0.0861	0.0063	0.0100	27	-0.49	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	2252	0.0835	0.0030	0.0861	0.0063	0.0100	27	-0.41	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	1022	0.0850	0.0100	0.0861	0.0063	0.0100	27	-0.17	1%	0

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			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
031.44	Phosphorus, ICP, Dry ash (%)	2220	0.0850	0.0100	0.0861	0.0063	0.0100	27	-0.17	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2362	0.0850	0.0100	0.0861	0.0063	0.0100	27	-0.17	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2415	0.0850	0.0100	0.0861	0.0063	0.0100	27	-0.17	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2417	0.0850	0.0100	0.0861	0.0063	0.0100	27	-0.17	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2419	0.0850	0.0100	0.0861	0.0063	0.0100	27	-0.17	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2420	0.0850	0.0100	0.0861	0.0063	0.0100	27	-0.17	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2422	0.0850	0.0100	0.0861	0.0063	0.0100	27	-0.17	1%	0
031.44	Phosphorus, ICP, Dry ash (%)	2293	0.0890	0.0160	0.0861	0.0063	0.0100	27	0.46	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	2361	0.0895	0.0070	0.0861	0.0063	0.0100	27	0.54	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	2219	0.0900	0.0200	0.0861	0.0063	0.0100	27	0.62	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	2426	0.0900	0.0000	0.0861	0.0063	0.0100	27	0.62	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	2452	0.0900	0.0000	0.0861	0.0063	0.0100	27	0.62	2%	0
031.44	Phosphorus, ICP, Dry ash (%)	2331	0.0905	0.0130	0.0861	0.0063	0.0100	27	0.70	3%	0
031.44	Phosphorus, ICP, Dry ash (%)	2330	0.0910	0.0120	0.0861	0.0063	0.0100	27	0.77	3%	0
031.44	Phosphorus, ICP, Dry ash (%)	2395	0.0920	0.0060	0.0861	0.0063	0.0100	27	0.93	3%	0
031.44	Phosphorus, ICP, Dry ash (%)	2421	0.0950	0.0100	0.0861	0.0063	0.0100	27	1.40	5%	0
031.44	Phosphorus, ICP, Dry ash (%)	2396	0.1060	0.0180	0.0861	0.0063	0.0100	27	3.14	12%	0
031.44	Phosphorus, ICP, Dry ash (%)	1020	0.1500	0.0000	0.0861	0.0063	0.0100	27	10.07	37%	0
031.53	Phosphorus, ICP-MS, Microwave (%)	0407	0.0836	0.0033				1			0
031.99	Phosphorus, Miscellaneous (%)	0889	0.0700	0.0000				2			0
031.99	Phosphorus, Miscellaneous (%)	0242	0.0800	0.0000				2			0
031.99	Phosphorus, Miscellaneous (%)	2302	0.0000	0.0000				2			4
032.31	Potassium, AAS, Dry ash (%)	0142	0.4288	0.0429				2			0
032.31	Potassium, AAS, Dry ash (%)	0529	0.5350	0.0100				2			0
032.41	Potassium, ICP, Dry ash (%)	0619	0.4105	0.0170	0.4896	0.0219	0.0138	14	-3.62	8%	0
032.41	Potassium, ICP, Dry ash (%)	0407	0.4627	0.0065	0.4896	0.0219	0.0138	14	-1.23	3%	0
032.41	Potassium, ICP, Dry ash (%)	0139	0.4650	0.0100	0.4896	0.0219	0.0138	14	-1.13	3%	0
032.41	Potassium, ICP, Dry ash (%)	0910	0.4750	0.0100	0.4896	0.0219	0.0138	14	-0.67	1%	0
032.41	Potassium, ICP, Dry ash (%)	1024	0.4800	0.0000	0.4896	0.0219	0.0138	14	-0.44	1%	0
032.41	Potassium, ICP, Dry ash (%)	1022	0.4900	0.0400	0.4896	0.0219	0.0138	14	0.02	0%	0
032.41	Potassium, ICP, Dry ash (%)	0226	0.4950	0.0100	0.4896	0.0219	0.0138	14	0.25	1%	0
032.41	Potassium, ICP, Dry ash (%)	1021	0.4950	0.0300	0.4896	0.0219	0.0138	14	0.25	1%	0
032.41	Potassium, ICP, Dry ash (%)	2398	0.4950	0.0100	0.4896	0.0219	0.0138	14	0.25	1%	0
032.41	Potassium, ICP, Dry ash (%)	0164	0.4980	0.0020	0.4896	0.0219	0.0138	14	0.38	1%	0
032.41	Potassium, ICP, Dry ash (%)	0074	0.5050	0.0100	0.4896	0.0219	0.0138	14	0.70	2%	0
032.41	Potassium, ICP, Dry ash (%)	2399	0.5050	0.0100	0.4896	0.0219	0.0138	14	0.70	2%	0
032.41	Potassium, ICP, Dry ash (%)	1023	0.5100	0.0200	0.4896	0.0219	0.0138	14	0.93	2%	0
032.41	Potassium, ICP, Dry ash (%)	0098	0.5300	0.0200	0.4896	0.0219	0.0138	14	1.85	4%	0
032.42	Potassium, ICP, Open vessel (%)	0026	0.3820	0.0280	0.4588	0.0525	0.0202	4			0
032.42	Potassium, ICP, Open vessel (%)	0504	0.4715	0.0010	0.4588	0.0525	0.0202	4			0
032.42	Potassium, ICP, Open vessel (%)	0870	0.4816	0.0317	0.4588	0.0525	0.0202	4			0
032.42	Potassium, ICP, Open vessel (%)	0047	0.5000	0.0200	0.4588	0.0525	0.0202	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	
032.43	Potassium, ICP, Microwave (%)	2124	0.4700	0.0000	0.5038	0.0208	0.0186	18	-1.63	3%	0
032.43	Potassium, ICP, Microwave (%)	2089	0.4750	0.0100	0.5038	0.0208	0.0186	18	-1.39	3%	0
032.43	Potassium, ICP, Microwave (%)	0028	0.4850	0.0500	0.5038	0.0208	0.0186	18	-0.91	2%	0
032.43	Potassium, ICP, Microwave (%)	0226	0.4850	0.0100	0.5038	0.0208	0.0186	18	-0.91	2%	0
032.43	Potassium, ICP, Microwave (%)	0511	0.4850	0.0500	0.5038	0.0208	0.0186	18	-0.91	2%	0
032.43	Potassium, ICP, Microwave (%)	2033	0.4900	0.0000	0.5038	0.0208	0.0186	18	-0.67	1%	0
032.43	Potassium, ICP, Microwave (%)	0918	0.4960	0.0120	0.5038	0.0208	0.0186	18	-0.38	1%	0
032.43	Potassium, ICP, Microwave (%)	0010	0.5000	0.0200	0.5038	0.0208	0.0186	18	-0.18	0%	0
032.43	Potassium, ICP, Microwave (%)	2439	0.5068	0.0310	0.5038	0.0208	0.0186	18	0.14	0%	0
032.43	Potassium, ICP, Microwave (%)	0510	0.5100	0.0000	0.5038	0.0208	0.0186	18	0.30	1%	0
032.43	Potassium, ICP, Microwave (%)	2436	0.5138	0.0221	0.5038	0.0208	0.0186	18	0.48	1%	0
032.43	Potassium, ICP, Microwave (%)	0098	0.5150	0.0100	0.5038	0.0208	0.0186	18	0.54	1%	0
032.43	Potassium, ICP, Microwave (%)	2438	0.5150	0.0100	0.5038	0.0208	0.0186	18	0.54	1%	0
032.43	Potassium, ICP, Microwave (%)	0407	0.5198	0.0070	0.5038	0.0208	0.0186	18	0.77	2%	0
032.43	Potassium, ICP, Microwave (%)	2437	0.5200	0.0000	0.5038	0.0208	0.0186	18	0.78	2%	0
032.43	Potassium, ICP, Microwave (%)	2435	0.5210	0.0036	0.5038	0.0208	0.0186	18	0.83	2%	0
032.43	Potassium, ICP, Microwave (%)	0870	0.5237	0.0253	0.5038	0.0208	0.0186	18	0.96	2%	0
032.43	Potassium, ICP, Microwave (%)	2429	0.5403	0.0237	0.5038	0.0208	0.0186	18	1.75	4%	0
032.44	Potassium, ICP, Dry ash (%)	2414	0.4350	0.0100	0.4841	0.0262	0.0166	25	-1.87	5%	0
032.44	Potassium, ICP, Dry ash (%)	2444	0.4350	0.0100	0.4841	0.0262	0.0166	25	-1.87	5%	0
032.44	Potassium, ICP, Dry ash (%)	2385	0.4400	0.0200	0.4841	0.0262	0.0166	25	-1.68	5%	0
032.44	Potassium, ICP, Dry ash (%)	2382	0.4500	0.0200	0.4841	0.0262	0.0166	25	-1.30	4%	0
032.44	Potassium, ICP, Dry ash (%)	2380	0.4600	0.0200	0.4841	0.0262	0.0166	25	-0.92	2%	0
032.44	Potassium, ICP, Dry ash (%)	2419	0.4650	0.0100	0.4841	0.0262	0.0166	25	-0.73	2%	0
032.44	Potassium, ICP, Dry ash (%)	2424	0.4650	0.0300	0.4841	0.0262	0.0166	25	-0.73	2%	0
032.44	Potassium, ICP, Dry ash (%)	2421	0.4700	0.0000	0.4841	0.0262	0.0166	25	-0.54	1%	0
032.44	Potassium, ICP, Dry ash (%)	2452	0.4800	0.0000	0.4841	0.0262	0.0166	25	-0.16	0%	0
032.44	Potassium, ICP, Dry ash (%)	2219	0.4850	0.0100	0.4841	0.0262	0.0166	25	0.03	0%	0
032.44	Potassium, ICP, Dry ash (%)	2362	0.4850	0.0100	0.4841	0.0262	0.0166	25	0.03	0%	0
032.44	Potassium, ICP, Dry ash (%)	2420	0.4850	0.0300	0.4841	0.0262	0.0166	25	0.03	0%	0
032.44	Potassium, ICP, Dry ash (%)	2220	0.4900	0.0200	0.4841	0.0262	0.0166	25	0.23	1%	0
032.44	Potassium, ICP, Dry ash (%)	2422	0.4900	0.0000	0.4841	0.0262	0.0166	25	0.23	1%	0
032.44	Potassium, ICP, Dry ash (%)	2426	0.4900	0.0200	0.4841	0.0262	0.0166	25	0.23	1%	0
032.44	Potassium, ICP, Dry ash (%)	2408	0.4915	0.0090	0.4841	0.0262	0.0166	25	0.28	1%	0
032.44	Potassium, ICP, Dry ash (%)	2361	0.4930	0.0100	0.4841	0.0262	0.0166	25	0.34	1%	0
032.44	Potassium, ICP, Dry ash (%)	2417	0.4950	0.0100	0.4841	0.0262	0.0166	25	0.42	1%	0
032.44	Potassium, ICP, Dry ash (%)	2330	0.5040	0.0140	0.4841	0.0262	0.0166	25	0.76	2%	0
032.44	Potassium, ICP, Dry ash (%)	2293	0.5055	0.0190	0.4841	0.0262	0.0166	25	0.82	2%	0
032.44	Potassium, ICP, Dry ash (%)	2395	0.5070	0.0060	0.4841	0.0262	0.0166	25	0.87	2%	0
032.44	Potassium, ICP, Dry ash (%)	2331	0.5080	0.0180	0.4841	0.0262	0.0166	25	0.91	2%	0
032.44	Potassium, ICP, Dry ash (%)	2252	0.5105	0.0430	0.4841	0.0262	0.0166	25	1.01	3%	0
032.44	Potassium, ICP, Dry ash (%)	1020	0.5150	0.0100	0.4841	0.0262	0.0166	25	1.18	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	
032.44	Potassium, ICP, Dry ash (%)	2396	0.5260	0.0320	0.4841	0.0262	0.0166	25	1.60	4%	0
032.44	Potassium, ICP, Dry ash (%)	2415	0.3850	0.0700	0.4841	0.0262	0.0166	25	-3.78	10%	1
032.53	Potassium, ICP-MS, Microwave (%)	0407	0.5098	0.0515				3			0
032.53	Potassium, ICP-MS, Microwave (%)	2409	0.5185	0.0010				3			0
032.53	Potassium, ICP-MS, Microwave (%)	2428	0.5350	0.0100				3			0
032.99	Potassium, Miscellaneous (%)	0242	0.4800	0.0000				3			0
032.99	Potassium, Miscellaneous (%)	2302	0.5300	0.0000				3			0
032.99	Potassium, Miscellaneous (%)	0889	0.5400	0.0000				3			0
032.99	Potassium, Miscellaneous (%)	0001	0.4810	0.0020				3			1
033.00	Salt as chloride, Sol Cl (%)	0309	0.0199	0.0091				1			0
033.01	Salt as chloride, Poten Cl (%)	0098	0.0300	0.0000	0.0411	0.0119	0.0132	4			0
033.01	Salt as chloride, Poten Cl (%)	0407	0.0365	0.0030	0.0411	0.0119	0.0132	4			0
033.01	Salt as chloride, Poten Cl (%)	0242	0.0400	0.0200	0.0411	0.0119	0.0132	4			0
033.01	Salt as chloride, Poten Cl (%)	0510	0.0577	0.0166	0.0411	0.0119	0.0132	4			0
033.01	Salt as chloride, Poten Cl (%)	0619	0.0000	0.0000	0.0411	0.0119	0.0132	4			4
034.04	Selenium, Total (Se), AA, Hydride (ppm)	0164	0.0550	0.0000				1			0
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppr)	0407	0.0975	0.0188				1			0
035.41	Sodium, ICP, Dry ash (%)	2362	0.0200	0.0000	0.0293	0.0056	0.0063	39	-1.66	16%	0
035.41	Sodium, ICP, Dry ash (%)	2419	0.0200	0.0000	0.0293	0.0056	0.0063	39	-1.66	16%	0
035.41	Sodium, ICP, Dry ash (%)	0619	0.0235	0.0010	0.0293	0.0056	0.0063	39	-1.04	10%	0
035.41	Sodium, ICP, Dry ash (%)	0098	0.0236	0.0004	0.0293	0.0056	0.0063	39	-1.02	10%	0
035.41	Sodium, ICP, Dry ash (%)	0910	0.0250	0.0100	0.0293	0.0056	0.0063	39	-0.77	7%	0
035.41	Sodium, ICP, Dry ash (%)	2219	0.0250	0.0100	0.0293	0.0056	0.0063	39	-0.77	7%	0
035.41	Sodium, ICP, Dry ash (%)	2220	0.0250	0.0100	0.0293	0.0056	0.0063	39	-0.77	7%	0
035.41	Sodium, ICP, Dry ash (%)	2252	0.0250	0.0020	0.0293	0.0056	0.0063	39	-0.77	7%	0
035.41	Sodium, ICP, Dry ash (%)	2361	0.0250	0.0020	0.0293	0.0056	0.0063	39	-0.77	7%	0
035.41	Sodium, ICP, Dry ash (%)	2420	0.0250	0.0100	0.0293	0.0056	0.0063	39	-0.77	7%	0
035.41	Sodium, ICP, Dry ash (%)	2424	0.0250	0.0100	0.0293	0.0056	0.0063	39	-0.77	7%	0
035.41	Sodium, ICP, Dry ash (%)	2426	0.0250	0.0100	0.0293	0.0056	0.0063	39	-0.77	7%	0
035.41	Sodium, ICP, Dry ash (%)	2293	0.0255	0.0010	0.0293	0.0056	0.0063	39	-0.68	7%	0
035.41	Sodium, ICP, Dry ash (%)	2395	0.0255	0.0010	0.0293	0.0056	0.0063	39	-0.68	7%	0
035.41	Sodium, ICP, Dry ash (%)	2408	0.0255	0.0050	0.0293	0.0056	0.0063	39	-0.68	7%	0
035.41	Sodium, ICP, Dry ash (%)	2396	0.0285	0.0070	0.0293	0.0056	0.0063	39	-0.15	1%	0
035.41	Sodium, ICP, Dry ash (%)	0407	0.0294	0.0038	0.0293	0.0056	0.0063	39	0.01	0%	0
035.41	Sodium, ICP, Dry ash (%)	2330	0.0295	0.0050	0.0293	0.0056	0.0063	39	0.03	0%	0
035.41	Sodium, ICP, Dry ash (%)	2331	0.0295	0.0050	0.0293	0.0056	0.0063	39	0.03	0%	0
035.41	Sodium, ICP, Dry ash (%)	0139	0.0300	0.0000	0.0293	0.0056	0.0063	39	0.12	1%	0
035.41	Sodium, ICP, Dry ash (%)	0164	0.0300	0.0020	0.0293	0.0056	0.0063	39	0.12	1%	0
035.41	Sodium, ICP, Dry ash (%)	1021	0.0300	0.0000	0.0293	0.0056	0.0063	39	0.12	1%	0
035.41	Sodium, ICP, Dry ash (%)	1022	0.0300	0.0000	0.0293	0.0056	0.0063	39	0.12	1%	0
035.41	Sodium, ICP, Dry ash (%)	1024	0.0300	0.0000	0.0293	0.0056	0.0063	39	0.12	1%	0
035.41	Sodium, ICP, Dry ash (%)	2398	0.0300	0.0000	0.0293	0.0056	0.0063	39	0.12	1%	0

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			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs	Z Score	%RSD	
035.41	Sodium, ICP, Dry ash (%)	2399	0.0300	0.0000	0.0293	0.0056	0.0063	39	0.12	1%	0
035.41	Sodium, ICP, Dry ash (%)	2417	0.0300	0.0000	0.0293	0.0056	0.0063	39	0.12	1%	0
035.41	Sodium, ICP, Dry ash (%)	2421	0.0300	0.0000	0.0293	0.0056	0.0063	39	0.12	1%	0
035.41	Sodium, ICP, Dry ash (%)	2422	0.0300	0.0000	0.0293	0.0056	0.0063	39	0.12	1%	0
035.41	Sodium, ICP, Dry ash (%)	2452	0.0300	0.0000	0.0293	0.0056	0.0063	39	0.12	1%	0
035.41	Sodium, ICP, Dry ash (%)	0226	0.0350	0.0100	0.0293	0.0056	0.0063	39	1.01	10%	0
035.41	Sodium, ICP, Dry ash (%)	1023	0.0350	0.0100	0.0293	0.0056	0.0063	39	1.01	10%	0
035.41	Sodium, ICP, Dry ash (%)	2382	0.0350	0.0100	0.0293	0.0056	0.0063	39	1.01	10%	0
035.41	Sodium, ICP, Dry ash (%)	2380	0.0400	0.0000	0.0293	0.0056	0.0063	39	1.90	18%	0
035.41	Sodium, ICP, Dry ash (%)	2414	0.0400	0.0000	0.0293	0.0056	0.0063	39	1.90	18%	0
035.41	Sodium, ICP, Dry ash (%)	2385	0.0450	0.0100	0.0293	0.0056	0.0063	39	2.80	27%	0
035.41	Sodium, ICP, Dry ash (%)	2444	0.0500	0.0000	0.0293	0.0056	0.0063	39	3.69	35%	0
035.41	Sodium, ICP, Dry ash (%)	2415	0.0550	0.0100	0.0293	0.0056	0.0063	39	4.58	44%	0
035.41	Sodium, ICP, Dry ash (%)	1020	0.0800	0.0000	0.0293	0.0056	0.0063	39	9.04	86%	0
035.42	Sodium, ICP, Open vessel (%)	0870	0.0184	0.0005				2			0
035.42	Sodium, ICP, Open vessel (%)	0504	0.0200	0.0000				2			0
035.43	Sodium, ICP, Microwave (%)	0870	0.0176	0.0028	0.0222	0.0036	0.0021	12	-1.28	10%	0
035.43	Sodium, ICP, Microwave (%)	2124	0.0200	0.0000	0.0222	0.0036	0.0021	12	-0.61	5%	0
035.43	Sodium, ICP, Microwave (%)	2437	0.0200	0.0000	0.0222	0.0036	0.0021	12	-0.61	5%	0
035.43	Sodium, ICP, Microwave (%)	2438	0.0200	0.0000	0.0222	0.0036	0.0021	12	-0.61	5%	0
035.43	Sodium, ICP, Microwave (%)	2436	0.0202	0.0002	0.0222	0.0036	0.0021	12	-0.56	4%	0
035.43	Sodium, ICP, Microwave (%)	2439	0.0208	0.0033	0.0222	0.0036	0.0021	12	-0.40	3%	0
035.43	Sodium, ICP, Microwave (%)	0098	0.0214	0.0000	0.0222	0.0036	0.0021	12	-0.22	2%	0
035.43	Sodium, ICP, Microwave (%)	2435	0.0218	0.0004	0.0222	0.0036	0.0021	12	-0.11	1%	0
035.43	Sodium, ICP, Microwave (%)	0407	0.0244	0.0023	0.0222	0.0036	0.0021	12	0.61	5%	0
035.43	Sodium, ICP, Microwave (%)	2429	0.0261	0.0047	0.0222	0.0036	0.0021	12	1.08	9%	0
035.43	Sodium, ICP, Microwave (%)	0510	0.0265	0.0010	0.0222	0.0036	0.0021	12	1.21	10%	0
035.43	Sodium, ICP, Microwave (%)	2089	0.0400	0.0000	0.0222	0.0036	0.0021	12	4.99	40%	0
035.43	Sodium, ICP, Microwave (%)	0226	0.0350	0.0100	0.0222	0.0036	0.0021	12	3.59	29%	1
035.53	Sodium, ICP-MS, Microwave (%)	0407	0.0218	0.0003				1			0
035.99	Sodium, Miscellaneous (%)	0242	0.0300	0.0000				2			0
035.99	Sodium, Miscellaneous (%)	0889	0.0500	0.0000				2			0
036.04	Sulfur, LECO (%)	0226	0.1900	0.0000				1			0
036.42	Sulfur, ICP, Open vessel (%)	0171	0.1750	0.0100	0.1903	0.0111	0.0086	4			0
036.42	Sulfur, ICP, Open vessel (%)	0870	0.1896	0.0076	0.1903	0.0111	0.0086	4			0
036.42	Sulfur, ICP, Open vessel (%)	0407	0.1968	0.0081	0.1903	0.0111	0.0086	4			0
036.42	Sulfur, ICP, Open vessel (%)	0164	0.2000	0.0000	0.1903	0.0111	0.0086	4			0
036.43	Sulfur, ICP, Microwave (%)	2033	0.1800	0.0000	0.2048	0.0089	0.0081	10	-2.80	6%	0
036.43	Sulfur, ICP, Microwave (%)	0226	0.1950	0.0100	0.2048	0.0089	0.0081	10	-1.11	2%	0
036.43	Sulfur, ICP, Microwave (%)	0027	0.1990	0.0040	0.2048	0.0089	0.0081	10	-0.65	1%	0
036.43	Sulfur, ICP, Microwave (%)	0870	0.2020	0.0122	0.2048	0.0089	0.0081	10	-0.32	1%	0
036.43	Sulfur, ICP, Microwave (%)	0918	0.2055	0.0130	0.2048	0.0089	0.0081	10	0.08	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	
036.43	Sulfur, ICP, Microwave (%)	0407	0.2066	0.0049	0.2048	0.0089	0.0081	10	0.20	0%	0
036.43	Sulfur, ICP, Microwave (%)	0510	0.2100	0.0000	0.2048	0.0089	0.0081	10	0.59	1%	0
036.43	Sulfur, ICP, Microwave (%)	2089	0.2100	0.0000	0.2048	0.0089	0.0081	10	0.59	1%	0
036.43	Sulfur, ICP, Microwave (%)	0098	0.2134	0.0029	0.2048	0.0089	0.0081	10	0.97	2%	0
036.43	Sulfur, ICP, Microwave (%)	2428	0.2150	0.0100	0.2048	0.0089	0.0081	10	1.15	2%	0
036.99	Sulfur, Miscellaneous (%)	0889	0.1600	0.0000				2			0
036.99	Sulfur, Miscellaneous (%)	0242	0.1800	0.0000				2			0
037.31	Zinc, AAS, Dry ash (ppm)	0001	16.05	0.3100				2			0
037.31	Zinc, AAS, Dry ash (ppm)	0529	22.05	0.1000				2			0
037.33	Zinc, AAS, Microwave (ppm)	0010	21.90	3.600				1			0
037.41	Zinc, ICP, Dry ash (ppm)	2385	1.624	0.4330	13.31	11.18	1.660	18	-1.04	44%	0
037.41	Zinc, ICP, Dry ash (ppm)	2382	2.564	2.275	13.31	11.18	1.660	18	-0.96	40%	0
037.41	Zinc, ICP, Dry ash (ppm)	2293	2.824	3.661	13.31	11.18	1.660	18	-0.94	39%	0
037.41	Zinc, ICP, Dry ash (ppm)	2395	2.994	2.318	13.31	11.18	1.660	18	-0.92	39%	0
037.41	Zinc, ICP, Dry ash (ppm)	2380	3.582	1.199	13.31	11.18	1.660	18	-0.87	37%	0
037.41	Zinc, ICP, Dry ash (ppm)	0139	4.395	0.0300	13.31	11.18	1.660	18	-0.80	33%	0
037.41	Zinc, ICP, Dry ash (ppm)	1022	5.448	2.117	13.31	11.18	1.660	18	-0.70	30%	0
037.41	Zinc, ICP, Dry ash (ppm)	2398	6.600	0.0520	13.31	11.18	1.660	18	-0.60	25%	0
037.41	Zinc, ICP, Dry ash (ppm)	1021	7.263	1.799	13.31	11.18	1.660	18	-0.54	23%	0
037.41	Zinc, ICP, Dry ash (ppm)	1024	16.16	0.4800	13.31	11.18	1.660	18	0.26	11%	0
037.41	Zinc, ICP, Dry ash (ppm)	0164	20.00	0.0000	13.31	11.18	1.660	18	0.60	25%	0
037.41	Zinc, ICP, Dry ash (ppm)	0098	21.57	1.280	13.31	11.18	1.660	18	0.74	31%	0
037.41	Zinc, ICP, Dry ash (ppm)	0171	21.75	1.500	13.31	11.18	1.660	18	0.75	32%	0
037.41	Zinc, ICP, Dry ash (ppm)	0910	22.00	0.0000	13.31	11.18	1.660	18	0.78	33%	0
037.41	Zinc, ICP, Dry ash (ppm)	0407	22.25	1.417	13.31	11.18	1.660	18	0.80	34%	0
037.41	Zinc, ICP, Dry ash (ppm)	0226	23.46	0.2400	13.31	11.18	1.660	18	0.91	38%	0
037.41	Zinc, ICP, Dry ash (ppm)	0619	24.95	5.300	13.31	11.18	1.660	18	1.04	44%	0
037.41	Zinc, ICP, Dry ash (ppm)	0074	35.50	19.00	13.31	11.18	1.660	18	1.98	83%	0
037.41	Zinc, ICP, Dry ash (ppm)	1023	42.35	65.00	13.31	11.18	1.660	18	2.60	109%	1
037.41	Zinc, ICP, Dry ash (ppm)	2220	0.0000	0.0000	13.31	11.18	1.660	18			4
037.41	Zinc, ICP, Dry ash (ppm)	2252	0.0000	0.0000	13.31	11.18	1.660	18			4
037.41	Zinc, ICP, Dry ash (ppm)	2362	0.0000	0.0000	13.31	11.18	1.660	18			4
037.41	Zinc, ICP, Dry ash (ppm)	2408	0.0000	0.0000	13.31	11.18	1.660	18			4
037.41	Zinc, ICP, Dry ash (ppm)	2444	0.0444	0.0888	13.31	11.18	1.660	18			4
037.41	Zinc, ICP, Dry ash (ppm)	2331	1.135	2.269	13.31	11.18	1.660	18			4
037.41	Zinc, ICP, Dry ash (ppm)	2361	2.268	4.535	13.31	11.18	1.660	18			4
037.41	Zinc, ICP, Dry ash (ppm)	2330	2.712	5.423	13.31	11.18	1.660	18			4
037.41	Zinc, ICP, Dry ash (ppm)	2219	< 0.5		13.31	11.18	1.660	18			5
037.42	Zinc, ICP, Open vessel (ppm)	0870	18.83	0.2300				3			0
037.42	Zinc, ICP, Open vessel (ppm)	0026	22.41	7.204				3			0
037.42	Zinc, ICP, Open vessel (ppm)	0504	25.50	1.000				3			0
037.43	Zinc, ICP, Microwave (ppm)	0511	18.50	1.000	22.38	2.799	1.411	17	-1.39	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	
037.43	Zinc, ICP, Microwave (ppm)	2124	20.08	0.0200	22.38	2.799	1.411	17	-0.82	5%	0
037.43	Zinc, ICP, Microwave (ppm)	0870	20.54	2.110	22.38	2.799	1.411	17	-0.66	4%	0
037.43	Zinc, ICP, Microwave (ppm)	0028	20.57	2.330	22.38	2.799	1.411	17	-0.65	4%	0
037.43	Zinc, ICP, Microwave (ppm)	0918	21.09	0.0500	22.38	2.799	1.411	17	-0.46	3%	0
037.43	Zinc, ICP, Microwave (ppm)	2033	21.45	0.7000	22.38	2.799	1.411	17	-0.33	2%	0
037.43	Zinc, ICP, Microwave (ppm)	0510	21.50	1.000	22.38	2.799	1.411	17	-0.32	2%	0
037.43	Zinc, ICP, Microwave (ppm)	2436	21.50	0.2000	22.38	2.799	1.411	17	-0.32	2%	0
037.43	Zinc, ICP, Microwave (ppm)	2439	21.55	1.700	22.38	2.799	1.411	17	-0.30	2%	0
037.43	Zinc, ICP, Microwave (ppm)	2438	21.60	0.4000	22.38	2.799	1.411	17	-0.28	2%	0
037.43	Zinc, ICP, Microwave (ppm)	2437	22.05	0.5000	22.38	2.799	1.411	17	-0.12	1%	0
037.43	Zinc, ICP, Microwave (ppm)	2429	22.06	2.280	22.38	2.799	1.411	17	-0.12	1%	0
037.43	Zinc, ICP, Microwave (ppm)	0407	22.45	0.2491	22.38	2.799	1.411	17	0.02	0%	0
037.43	Zinc, ICP, Microwave (ppm)	0098	26.14	3.650	22.38	2.799	1.411	17	1.34	8%	0
037.43	Zinc, ICP, Microwave (ppm)	2089	26.31	4.630	22.38	2.799	1.411	17	1.40	9%	0
037.43	Zinc, ICP, Microwave (ppm)	0226	26.76	0.6800	22.38	2.799	1.411	17	1.56	10%	0
037.43	Zinc, ICP, Microwave (ppm)	0027	29.68	4.121	22.38	2.799	1.411	17	2.61	16%	0
037.44	Zinc, ICP, Dry ash (ppm)	2415	2.036	0.9760				3			0
037.44	Zinc, ICP, Dry ash (ppm)	2414	6.350	0.4900				3			0
037.44	Zinc, ICP, Dry ash (ppm)	1020	21.27	1.840				3			0
037.53	Zinc, ICP-MS, Microwave (ppm)	0407	22.12	0.5490				3			0
037.53	Zinc, ICP-MS, Microwave (ppm)	2409	22.46	0.9300				3			0
037.53	Zinc, ICP-MS, Microwave (ppm)	2428	24.50	3.000				3			0
037.99	Zinc, Miscellaneous (ppm)	0242	21.00	0.0000				2			0
037.99	Zinc, Miscellaneous (ppm)	0889	23.99	0.4600				2			0
038.41	Molybdenum, ICP, Dry ash (ppm)	0407	0.9326	0.0050				1			0
038.43	Molybdenum, ICP, Microwave (ppm)	0407	0.7559	0.2868				2			0
038.43	Molybdenum, ICP, Microwave (ppm)	0510	1.300	0.0000				2			0
038.51	Molybdenum, ICP-MS, Dry ash (ppm)	0164	0.8450	0.0660				1			0
038.53	Molybdenum, ICP-MS, Microwave (ppm)	0407	0.7514	0.0424				1			0
040.53	Barium, ICP-MS, Microwave (ppm)	0407	23.49	2.427				1			0
041.53	Vanadium, ICP-MS, Microwave (ppm)	0407	1.256	0.0187				1			0
042.00	Chloride, Titrimetric (%)	0227	< 0.06					0			5
102.01	Niacin, Microbiological (ppm)	0227	3.470	0.0800				1			0
104.00	Riboflavin, Fluorometric (ppm)	0227	0.7325	0.0490				1			0
105.01	Thiamine, Fluorometer (ppm)	0227	0.9800	0.1200				1			0
109.02	Vitamin E, LC (IU / kg)	0227	19.65	1.500				1			0
112.01	Pyridoxine, LC (µg / g)	0227	0.9300	0.0200				1			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0227	0.3700	0.0000	0.3752	0.0053	0.0105	5			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0504	0.3700	0.0200	0.3752	0.0053	0.0105	5			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0910	0.3750	0.0100	0.3752	0.0053	0.0105	5			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0226	0.3795	0.0009	0.3752	0.0053	0.0105	5			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0619	0.3815	0.0110	0.3752	0.0053	0.0105	5			0



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120.05	Alanine, Pre-col AQC Der (%)	0407	0.2845	0.0110				2		0	
120.05	Alanine, Pre-col AQC Der (%)	0870	0.3805	0.0050				2		0	
121.00	Arginine, Post-col Ninhydrin Der (%)	0504	0.2850	0.0100	0.3153	0.0323	0.0131	5		0	
121.00	Arginine, Post-col Ninhydrin Der (%)	0227	0.2950	0.0100	0.3153	0.0323	0.0131	5		0	
121.00	Arginine, Post-col Ninhydrin Der (%)	0226	0.3084	0.0145	0.3153	0.0323	0.0131	5		0	
121.00	Arginine, Post-col Ninhydrin Der (%)	0910	0.3200	0.0000	0.3153	0.0323	0.0131	5		0	
121.00	Arginine, Post-col Ninhydrin Der (%)	0619	0.3680	0.0180	0.3153	0.0323	0.0131	5		0	
121.05	Arginine, Pre-col AQC Der (%)	0870	0.2605	0.0050				2		0	
121.05	Arginine, Pre-col AQC Der (%)	0407	0.2980	0.0360				2		0	
122.00	Aspartic, Post-col Ninhydrin Der (%)	0910	0.5900	0.0200	0.6038	0.0177	0.0184	5		0	
122.00	Aspartic, Post-col Ninhydrin Der (%)	0227	0.5950	0.0100	0.6038	0.0177	0.0184	5		0	
122.00	Aspartic, Post-col Ninhydrin Der (%)	0504	0.5950	0.0300	0.6038	0.0177	0.0184	5		0	
122.00	Aspartic, Post-col Ninhydrin Der (%)	0226	0.6051	0.0135	0.6038	0.0177	0.0184	5		0	
122.00	Aspartic, Post-col Ninhydrin Der (%)	0619	0.6340	0.0000	0.6038	0.0177	0.0184	5		0	
122.05	Aspartic, Pre-col AQC Der (%)	0407	0.4425	0.0390				2		0	
122.05	Aspartic, Pre-col AQC Der (%)	0870	0.5170	0.0060				2		0	
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	0227	0.0800	0.0000	0.1047	0.0163	0.0123	5		0	
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	0619	0.1000	0.0000	0.1047	0.0163	0.0123	5		0	
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	0504	0.1050	0.0100	0.1047	0.0163	0.0123	5		0	
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	0226	0.1185	0.0146	0.1047	0.0163	0.0123	5		0	
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	0910	0.1200	0.0000	0.1047	0.0163	0.0123	5		0	
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	0407	0.0491	0.0021				2		0	
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	0870	0.2710	0.0120				2		0	
125.00	Glutamic, Post-col Ninhydrin Der (%)	0227	0.7350	0.0100	0.7705	0.0356	0.0338	5		0	
125.00	Glutamic, Post-col Ninhydrin Der (%)	0910	0.7450	0.0100	0.7705	0.0356	0.0338	5		0	
125.00	Glutamic, Post-col Ninhydrin Der (%)	0504	0.7550	0.0500	0.7705	0.0356	0.0338	5		0	
125.00	Glutamic, Post-col Ninhydrin Der (%)	0226	0.8073	0.0452	0.7705	0.0356	0.0338	5		0	
125.00	Glutamic, Post-col Ninhydrin Der (%)	0619	0.8100	0.0540	0.7705	0.0356	0.0338	5		0	
125.05	Glutamic, Pre-col AQC Der (%)	0407	0.5805	0.0210				2		0	
125.05	Glutamic, Pre-col AQC Der (%)	0870	0.7295	0.0050				2		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0227	0.3400	0.0000	0.3542	0.0139	0.0216	5		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0504	0.3450	0.0300	0.3542	0.0139	0.0216	5		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0910	0.3500	0.0000	0.3542	0.0139	0.0216	5		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0226	0.3615	0.0179	0.3542	0.0139	0.0216	5		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0619	0.3745	0.0170	0.3542	0.0139	0.0216	5		0	
126.05	Glycine, Pre-col AQC Der (%)	0407	0.3145	0.0330				2		0	
126.05	Glycine, Pre-col AQC Der (%)	0870	0.3825	0.0030				2		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0226	0.2146	0.0024	0.2465	0.0290	0.0136	5		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0910	0.2350	0.0100	0.2465	0.0290	0.0136	5		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0227	0.2400	0.0000	0.2465	0.0290	0.0136	5		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0504	0.2500	0.0200	0.2465	0.0290	0.0136	5		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0619	0.2930	0.0220	0.2465	0.0290	0.0136	5		0	

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			Value	Range	Rob. Mean	Robust SD	Rob. R-bar	# Labs			
127.05	Histidine, Pre-col AQC Der (%)	0407	0.2100	0.0220				2		0	
127.05	Histidine, Pre-col AQC Der (%)	0870	0.2470	0.0080				2		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0910	0.2850	0.0100	0.3026	0.0165	0.0100	5		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0226	0.2898	0.0098	0.3026	0.0165	0.0100	5		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0227	0.3000	0.0000	0.3026	0.0165	0.0100	5		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0619	0.3130	0.0100	0.3026	0.0165	0.0100	5		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0504	0.3250	0.0100	0.3026	0.0165	0.0100	5		0	
128.05	Isoleucine, Pre-col AQC Der (%)	0407	0.2610	0.0340				2		0	
128.05	Isoleucine, Pre-col AQC Der (%)	0870	0.2830	0.0000				2		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0910	0.4650	0.0100	0.4915	0.0185	0.0141	5		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0227	0.4800	0.0000	0.4915	0.0185	0.0141	5		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0504	0.5000	0.0200	0.4915	0.0185	0.0141	5		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0226	0.5032	0.0214	0.4915	0.0185	0.0141	5		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0619	0.5095	0.0050	0.4915	0.0185	0.0141	5		0	
129.05	Leucine, Pre-col AQC Der (%)	0407	0.3970	0.0540				2		0	
129.05	Leucine, Pre-col AQC Der (%)	0870	0.4765	0.0010				2		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0226	0.4262	0.0074	0.4528	0.0323	0.0195	5		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0504	0.4300	0.0200	0.4528	0.0323	0.0195	5		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0910	0.4350	0.0300	0.4528	0.0323	0.0195	5		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0619	0.4730	0.0200	0.4528	0.0323	0.0195	5		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0227	0.5000	0.0200	0.4528	0.0323	0.0195	5		0	
130.05	L-Lysine, Pre-col AQC Der (%)	0407	0.3670	0.0580				2		0	
130.05	L-Lysine, Pre-col AQC Der (%)	0870	0.4055	0.0050				2		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0226	0.1227	0.0125	0.1356	0.0121	0.0104	5		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0910	0.1250	0.0100	0.1356	0.0121	0.0104	5		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0504	0.1350	0.0100	0.1356	0.0121	0.0104	5		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0619	0.1455	0.0090	0.1356	0.0121	0.0104	5		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0227	0.1500	0.0000	0.1356	0.0121	0.0104	5		0	
131.05	Methionine, PAO Pre-col AQC Der (%)	0407	0.1017	0.0008				2		0	
131.05	Methionine, PAO Pre-col AQC Der (%)	0870	0.1430	0.0100				2		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0226	0.2861	0.0064	0.2980	0.0102	0.0117	5		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0227	0.2950	0.0100	0.2980	0.0102	0.0117	5		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0910	0.2950	0.0100	0.2980	0.0102	0.0117	5		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0504	0.3000	0.0200	0.2980	0.0102	0.0117	5		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0619	0.3140	0.0120	0.2980	0.0102	0.0117	5		0	
132.05	Phenylalanine, Pre-col AQC Der (%)	0407	0.2155	0.0270				2		0	
132.05	Phenylalanine, Pre-col AQC Der (%)	0870	0.2715	0.0030				2		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0227	0.3500	0.0200	0.3661	0.0169	0.0259	5		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0504	0.3550	0.0300	0.3661	0.0169	0.0259	5		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0910	0.3600	0.0600	0.3661	0.0169	0.0259	5		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0226	0.3737	0.0036	0.3661	0.0169	0.0259	5		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0619	0.3920	0.0160	0.3661	0.0169	0.0259	5		0	

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133.05	Proline, Pre-col AQC Der (%)	0407	0.2895	0.0330				2		0	
133.05	Proline, Pre-col AQC Der (%)	0870	0.3240	0.0020				2		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0504	0.3150	0.0300	0.3705	0.0327	0.0113	5		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0227	0.3750	0.0100	0.3705	0.0327	0.0113	5		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0910	0.3750	0.0100	0.3705	0.0327	0.0113	5		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0226	0.3887	0.0004	0.3705	0.0327	0.0113	5		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0619	0.3990	0.0060	0.3705	0.0327	0.0113	5		0	
134.05	Serine, Pre-col AQC Der (%)	0407	0.2640	0.0320				2		0	
134.05	Serine, Pre-col AQC Der (%)	0870	0.3405	0.0050				2		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0226	0.3389	0.0026	0.3581	0.0144	0.0089	5		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0910	0.3500	0.0000	0.3581	0.0144	0.0089	5		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0504	0.3600	0.0200	0.3581	0.0144	0.0089	5		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0227	0.3650	0.0100	0.3581	0.0144	0.0089	5		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0619	0.3765	0.0030	0.3581	0.0144	0.0089	5		0	
135.05	Threonine, Pre-col AQC Der (%)	0407	0.2580	0.0380				2		0	
135.05	Threonine, Pre-col AQC Der (%)	0870	0.3325	0.0130				2		0	
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	0619	0.0895	0.0010				2		0	
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	0227	0.1100	0.0000				2		0	
136.03	Tryptophan, Alka-Hydrol + IS RP LC FI (%)	0226	0.1169	0.0008				1		0	
136.05	Tryptophan, Pre-col AQC Der (%)	0870	0.0780	0.0000				2		0	
136.05	Tryptophan, Pre-col AQC Der (%)	0407	0.1025	0.0150				2		0	
136.99	Tryptophan, Miscellaneous (%)	0504	0.0550	0.0100				1		0	
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0504	0.2550	0.0100	0.2773	0.0238	0.0162	4		0	
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0910	0.2600	0.0400	0.2773	0.0238	0.0162	4		0	
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0226	0.2891	0.0048	0.2773	0.0238	0.0162	4		0	
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0227	0.3050	0.0100	0.2773	0.0238	0.0162	4		0	
137.05	Tyrosine, Pre-col AQC Der (%)	0407	0.2610	0.0300				2		0	
137.05	Tyrosine, Pre-col AQC Der (%)	0870	0.3445	0.0050				2		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0910	0.4600	0.0200	0.4771	0.0158	0.0108	5		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0226	0.4614	0.0004	0.4771	0.0158	0.0108	5		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0504	0.4800	0.0000	0.4771	0.0158	0.0108	5		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0227	0.4900	0.0000	0.4771	0.0158	0.0108	5		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0619	0.4940	0.0120	0.4771	0.0158	0.0108	5		0	
138.05	Valine, Pre-col AQC Der (%)	0407	0.3820	0.0220				2		0	
138.05	Valine, Pre-col AQC Der (%)	0870	0.4540	0.0160				2		0	
139.00	Taurine, Post-col Ninhydrin Der (%)	0504	0.2500	0.0800				1		0	
139.05	Taurine, Pre-col AQC Der (%)	0407	0.0260	0.0040				1		0	
400.01	Water Activity, Aqualab chilled mirror (Units)	0010	0.5250	0.0100				2		0	
400.01	Water Activity, Aqualab chilled mirror (Units)	0407	0.5418	0.0002				2		0	
400.01	Water Activity, Aqualab chilled mirror (Units)	2312	0.5395	0.0570				2		1	
400.01	Water Activity, Aqualab chilled mirror (Units)	2409	0.4291	0.0115				2		2	
400.99	Water Activity, Miscellaneous (Units)	2250	0.5065	0.0030				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			
400.99	Water Activity, Miscellaneous (Units)	0619	0.5545	0.0110				2		0	
516.43	Arsenic, Total (As), ICP, Microwave (ppm)	2124	< 0.89					0		5	
516.53	Arsenic, Total (As), ICP-MS, Microwave (ppm)	0227	0.1995	0.0010				2		0	
516.53	Arsenic, Total (As), ICP-MS, Microwave (ppm)	0407	0.2285	0.0004				2		0	
518.41	Cadmium, ICP, Dry ash (ppm)	0407	0.1134	0.0086				1		0	
518.43	Cadmium, ICP, Microwave (ppm)	0407	0.2102	0.0383				2		0	
518.43	Cadmium, ICP, Microwave (ppm)	2124	0.2750	0.0100				2		0	
518.53	Cadmium, ICP-MS, Microwave (ppm)	0227	0.2540	0.0000				2		0	
518.53	Cadmium, ICP-MS, Microwave (ppm)	0407	0.2667	0.0176				2		0	
520.41	Chromium, Total (Cr), ICP, Dry ash (ppm)	0407	16.70	1.616				1		0	
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	0407	17.49	3.042				3		0	
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	0510	21.46	0.5800				3		0	
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	0226	26.23	2.270				3		0	
520.53	Chromium, Total (Cr), ICP-MS, Microwave (ppm)	0407	14.99	0.1916				1		0	
526.41	Lead, ICP, Dry ash (ppm)	0407	0.4536	0.0098				1		0	
526.43	Lead, ICP, Microwave (ppm)	0407	0.4064	0.1883				1		0	
526.53	Lead, ICP-MS, Microwave (ppm)	0227	0.4775	0.0110				2		0	
526.53	Lead, ICP-MS, Microwave (ppm)	0407	0.5238	0.0263				2		0	
529.99	Mercury, Miscellaneous (ppb)	0407	8.499	0.2130				1		0	
539.41	Nickel, ICP, Dry ash (ppm)	0407	6.710	0.7344				1		0	
539.43	Nickel, ICP, Microwave (ppm)	0407	6.404	0.0000				2		0	
539.43	Nickel, ICP, Microwave (ppm)	0226	9.000	0.8400				2		0	
539.53	Nickel, ICP-MS, Microwave (ppm)	0407	5.383	0.2467				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) and Green = Z <= 2 and >= -2 (OK at 95%).

**Note 2:** Data Not Used Flags: 1=Rejected for duplicates too far apart, 2=Rejected as extreme outlier, 5=Reporting limit (<), 4=Zeros submitted as values and 3=Statistical problem. Flag 0 indicates data used in calculations.

**Note 3:** \*Robust statistics not used if < 6 labs reporting, in the case of 4 or 5 labs reporting Means and SD's may be reported based on Raw Data with obvious blunders removed (Mandel h and k exclusions apply; Grey). A zero range is not included in robust R-bar calculation.