

**Animal Feed Scheme**  
**Dry Cat Food**  
**Test Material Code # 201825**

**Method Summary Report**  
(Precision Report Follows)

**# Methods Reported: 416**  
**# Labs Reporting: 225**  
**Issue Date : 06/30/2018**

Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO PT ffp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Average Range (R-bar)	Horwitz %RSD
000.02	Urea, As protein, Colorimetric (%)	1	1	0.20000							
001.00	Loss on Drying, Vac 95°C 5 hr (%)	5	4	6.2705	0.08725	6.2705	0.08725	0.05453	1.39%	0.02850	3.03%
001.03	Loss on Drying, Low temp. methods (%)	8	7	6.3170	0.23310	6.3170	0.26434	0.12489	4.18%	0.03501	3.03%
001.05	Loss on Drying, LECO (%)	2	2	6.2875	0.10960						
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	51	50	6.1930	0.36772	6.2544	0.21333	0.03771	3.41%	0.10743	3.04%
001.99	Loss on Drying, Miscellaneous (%)	29	28	6.2291	0.51823	6.2557	0.44702	0.10560	7.15%	0.08896	3.04%
002.00	Protein, Crude, Crude (%)	2	2	35.000	0.98995						
002.01	Protein, Crude, Auto Kjel-Foss (%)	17	17	34.863	0.51761	34.810	0.41603	0.12613	1.20%	0.15412	1.69%
002.02	Protein, Crude, Semiauto Autoanalyzer (%)	3	3	34.695	0.55975	34.695	0.55975	0.40396	1.61%	0.30593	1.70%
002.03	Protein, Crude, Hach Method (%)	2	2	34.054	0.39704						
002.04	Protein, Crude, Copper Catalyst (%)	6	5	35.192	0.94643	35.192	0.94643	0.52907	2.69%	0.04000	1.69%
002.05	Protein, Crude, Copper, Boric Acid (%)	37	37	34.683	0.47678	34.764	0.23863	0.04904	0.69%	0.14582	1.70%
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	145	143	35.270	0.50021	35.233	0.30294	0.03167	0.86%	0.26988	1.68%
002.08	Protein, Crude, Cu/Ti (%)	2	2	35.168	0.09546						
002.10	Protein, Crude, Block dig/distillation (%)	1	1	34.470							
002.11	Protein, Crude, NIR (%)	7	7	34.089	2.1757	34.089	2.4672	1.1657	7.24%	0.23286	1.71%
002.99	Protein, Crude, Miscellaneous (%)	2	2	34.108	0.22274						
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	12	12	12.473	1.0967	12.259	0.57374	0.20703	4.68%	0.27098	2.74%
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirect (%)	1	1	11.495							
003.06	Fat, Crude, Pet Ether (%)	21	20	12.054	0.23310	12.069	0.20652	0.05772	1.71%	0.22505	2.75%
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	13	11	11.992	0.19113	12.000	0.19488	0.07345	1.62%	0.06261	2.75%
003.10	Fat, Crude, Randall, Pet Ether (%)	34	32	11.899	0.35719	11.906	0.27195	0.06009	2.28%	0.16595	2.76%
003.11	Fat, Crude, NIR (%)	6	6	14.491	1.5929	14.491	1.8064	0.92182	12.47%	0.13500	2.63%
003.12	Fat, Crude, Hexane Ext (%)	7	6	12.281	0.49788	12.281	0.56459	0.28812	4.60%	0.03750	2.74%
003.13	Fat, Crude, Randall, Hexane Ext. (%)	5	5	12.081	0.12512	12.081	0.12512	0.06994	1.04%	0.12600	2.75%
003.14	Fat, Crude, Ankom (%)	42	42	12.082	0.23144	12.070	0.22914	0.04420	1.90%	0.19517	2.75%
003.99	Fat, Crude, Miscellaneous (%)	8	7	14.529	1.4870	14.562	1.6105	0.76087	11.06%	0.29000	2.62%
004.00	Fiber, Crude, Asbestos Free (%)	20	20	1.1093	0.35852	1.1099	0.34522	0.09649	31.10%	0.07626	3.94%
004.03	Fiber, Crude, Fritted Glass (%)	7	6	1.1369	0.41103	1.1343	0.46013	0.23481	40.56%	0.09583	3.92%
004.06	Fiber, Crude, Fibertec (%)	27	25	1.1825	0.45775	1.1061	0.33082	0.08271	29.91%	0.12163	3.94%
004.07	Fiber, Crude, ANKOM (%)	64	61	1.2625	0.52505	1.2136	0.47692	0.07633	39.30%	0.13062	3.88%
004.11	Fiber, Crude, NIR (%)	3	3	2.2350	1.9078	2.2350	1.9078	1.3768	85.36%	0.14333	3.54%

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004.99	Fiber, Crude, Miscellaneous (%)	7	6	0.90500	0.28205	0.90500	0.31984	0.16322	35.34%	0.02333	4.06%
005.00	Ash, 2h @ 600°C (%)	111	109	6.9323	0.12945	6.9341	0.09397	0.01125	1.36%	0.06353	2.99%
005.02	Ash, LECO (%)	1	1	7.2550							
005.03	Ash, Microwave furnace (%)	1	1	7.0200							
005.05	Ash, 3h @ 550°C (%)	42	39	7.0247	0.08688	7.0234	0.09092	0.01820	1.29%	0.06260	2.98%
005.11	Ash, NIR (%)	4	4	6.7125	3.1060	6.7125	3.1060	1.9413	46.27%	0.13000	3.00%
005.99	Ash, Miscellaneous (%)	13	13	7.0123	0.14838	7.0285	0.13088	0.04537	1.86%	0.06825	2.98%
006.00	Total Sugars, As sucrose (%)	2	2	1.4250	0.57276						
006.99	Total Sugars, Miscellaneous (%)	4	3	1.5350	0.75877	1.5350	0.75877	0.54760	49.43%	0.01667	3.75%
008.02	Fiber, Acid Detergent, Crucible (%)	16	15	2.3896	2.0762	1.8384	0.67242	0.21702	36.58%	0.21911	3.65%
008.05	Fiber, Acid Detergent, Acid Detergent-Hach (%)	1	1	2.7400							
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	40	38	2.7090	1.6206	2.5183	1.3971	0.28330	55.48%	0.25483	3.48%
008.99	Fiber, Acid Detergent, Miscellaneous (%)	2	2	3.9375	1.6087						
009.04	Fiber, Neutral Detergent, Neutral Det-No ENZ Pretreat (%)	1	1	4.4700							
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	14	14	7.1833	2.7980	6.9676	2.6733	0.89310	38.37%	0.42171	2.99%
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	42	40	7.1223	3.1594	6.8302	2.8860	0.57040	42.25%	0.24058	3.00%
009.99	Fiber, Neutral Detergent, Miscellaneous (%)	2	2	11.793	7.6261						
010.03	Moisture, Karl-Fischer (%)	2	2	5.9700	0.57276						
010.11	Moisture, NIR (%)	6	6	6.4142	0.59721	6.4142	0.67723	0.34560	10.56%	0.08167	3.02%
010.99	Moisture, Miscellaneous (%)	22	21	6.4070	0.50284	6.4135	0.50596	0.13801	7.89%	0.07918	3.02%
011.01	Loss on Drying, 135°C 2hr (%)	77	75	6.9400	0.29352	6.9548	0.26018	0.03755	3.74%	0.08271	2.99%
011.02	Loss on Drying, 130°C for 2 hours (%)	4	3	6.9517	0.04726	6.9517	0.04726	0.03411	0.68%	0.19667	2.99%
011.99	Loss on Drying, High Temp. Methods Miscellaneous (%)	2	2	7.2475	0.42073						
012.00	Starch, Polarimetric (Ewers) (%)	18	18	27.575	1.3697	27.788	1.0147	0.29896	3.65%	0.23976	1.90%
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	9	9	26.911	2.4358	27.040	1.5897	0.66236	5.88%	1.0752	1.92%
012.03	Starch, Enzymatic-Colorimetric Method, Miscellaneous (%)	6	6	26.673	1.7225	26.689	1.9176	0.97858	7.19%	0.87000	1.94%
012.04	Starch, Enzymatic-Enzyme Membrane Technology (YSI) (%)	6	6	26.691	1.8192	27.062	1.1246	0.57390	4.16%	0.27500	1.92%
012.11	Starch, NIR (%)	2	2	19.518	11.049						
012.99	Starch, Miscellaneous (%)	1	1	27.855							
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	25	25	15.555	0.86052	15.719	0.46644	0.11661	2.97%	0.22432	2.52%
013.02	Fat, Acid Pretreat, Mojonier, Bak Ext (%)	31	30	16.029	0.76010	16.027	0.49974	0.11405	3.12%	0.24216	2.50%
013.08	Fat, Base Pretreat, Roese-Gottlieb Modified (%)	1	1	13.065							
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	15	15	15.410	0.51058	15.410	0.57747	0.18638	3.75%	0.31774	2.55%
013.13	Fat, Acid Pretreat, Ankom- Acid Hydrolysis (%)	9	9	15.620	0.93297	15.478	0.68207	0.28420	4.41%	0.32489	2.54%
015.41	Aluminum, ICP, Dry ash (mg / kg (ppm))	3	3	12.967	13.490	12.967	13.490	9.7356	104.03%	0.48000	10.88%
015.42	Aluminum, ICP, Open vessel (mg / kg (ppm))	1	1	13.800							
015.43	Aluminum, ICP, Microwave (mg / kg (ppm))	6	6	16.293	3.1293	16.254	3.4573	1.7643	21.27%	1.5207	10.51%
015.52	Aluminum, ICP-MS, Open vessel (mg / kg (ppm))	1	1	15.726							
015.53	Aluminum, ICP-MS, Microwave (mg / kg (ppm))	1	1	21.350							
017.41	Boron, ICP, Dry ash (mg / kg (ppm))	4	4	5.1263	0.95624	5.1263	0.95624	0.59765	18.65%	0.40250	12.51%

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017.42	Boron, ICP, Open vessel (mg / kg (ppm))	6	6	5.8013	2.4156	5.2120	1.2215	0.62333	23.44%	0.22933	12.48%
017.43	Boron, ICP, Microwave (mg / kg (ppm))	5	4	5.5713	0.50144	5.5713	0.50144	0.31340	9.00%	0.05250	12.35%
019.00	Calcium, Ox-Mn04 Vol. (%)	14	14	1.2510	0.05738	1.2558	0.05276	0.01763	4.20%	0.02797	3.86%
019.02	Calcium, Hach Method (%)	2	2	1.2903	0.13470						
019.03	Calcium, Semiauto (Autoanalyzer) (%)	1	1	1.3390							
019.08	Calcium, EDTA (%)	13	13	1.2804	0.18662	1.3018	0.13238	0.04590	10.17%	0.03774	3.84%
019.09	Calcium, Ion-selective electrode (%)	1	1	1.2210							
019.31	Calcium, AAS, Dry ash (%)	23	22	1.2677	0.09248	1.2804	0.06982	0.01861	5.45%	0.02345	3.85%
019.32	Calcium, AAS, Open vessel (%)	4	4	1.3568	0.16721	1.3568	0.16721	0.10451	12.32%	0.01885	3.82%
019.33	Calcium, AAS, Microwave (%)	2	2	1.3515	0.04455						
019.34	Calcium, AAS, Dry ash (%)	1	1	1.2482							
019.41	Calcium, ICP, Dry ash (%)	32	32	1.2819	0.07882	1.2780	0.07696	0.01701	6.02%	0.03239	3.85%
019.42	Calcium, ICP, Open vessel (%)	23	23	1.2978	0.09331	1.3007	0.08092	0.02109	6.22%	0.04505	3.84%
019.43	Calcium, ICP, Microwave (%)	28	27	1.2891	0.09124	1.2998	0.05763	0.01386	4.43%	0.01994	3.84%
019.44	Calcium, ICP, Dry ash (%)	6	6	1.2681	0.02219	1.2681	0.02517	0.01284	1.98%	0.01945	3.86%
019.52	Calcium, ICP-MS, Open vessel (%)	3	3	1.2616	0.06647	1.2616	0.06647	0.04797	5.27%	0.06847	3.86%
019.53	Calcium, ICP-MS, Microwave (%)	5	5	1.2209	0.11041	1.2209	0.11041	0.06172	9.04%	0.04944	3.88%
019.99	Calcium, Miscellaneous (%)	8	8	1.2510	0.16884	1.2879	0.08957	0.03959	6.95%	0.03950	3.85%
021.31	Cobalt, AAS, Dry ash (mg / kg (ppm))	1		0.75000							
021.41	Cobalt, ICP, Dry ash (mg / kg (ppm))	2	2	0.24025	0.04207						
021.42	Cobalt, ICP, Open vessel (mg / kg (ppm))	2	1	0.19950							
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	5	3	0.24390	0.02761	0.24390	0.02761	0.01993	11.32%	0.03960	19.78%
021.52	Cobalt, ICP-MS, Open vessel (mg / kg (ppm))	2	2	0.17403	0.09055						
021.53	Cobalt, ICP-MS, Microwave (mg / kg (ppm))	5	5	0.23477	0.05965	0.23477	0.05965	0.03335	25.41%	0.03114	19.90%
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	14	13	18.576	4.7610	18.487	5.2037	1.8041	28.15%	0.14980	10.31%
022.32	Copper, AAS, Open vessel (mg / kg (ppm))	3	3	15.881	5.1676	15.881	5.1676	3.7294	32.54%	2.4413	10.55%
022.33	Copper, AAS, Microwave (mg / kg (ppm))	1	1	18.041							
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	25	25	17.652	3.0568	17.683	2.5244	0.63109	14.28%	1.3516	10.38%
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	23	22	18.537	3.7599	18.722	2.2859	0.60918	12.21%	0.65759	10.29%
022.43	Copper, ICP, Microwave (mg / kg (ppm))	19	18	17.565	2.2607	17.935	1.3221	0.38953	7.37%	0.70451	10.36%
022.52	Copper, ICP-MS, Open vessel (mg / kg (ppm))	1	1	18.050							
022.53	Copper, ICP-MS, Microwave (mg / kg (ppm))	6	6	17.566	0.87687	17.566	0.99437	0.50744	5.66%	0.28500	10.39%
022.99	Copper, Miscellaneous (mg / kg (ppm))	4	3	16.867	0.23094	16.867	0.23094	0.20412	1.37%	0.03333	10.46%
023.01	Fluorine, Ion Sel Elect (mg / kg (ppm))	1	1	13.500							
024.03	Iodine, Ion-selective electrode (mg / kg (ppm))	1	1	2.3000							
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	14	13	197.46	10.066	197.30	11.061	3.8347	5.61%	4.2590	7.22%
025.32	Iron, AAS, Open vessel (mg / kg (ppm))	3	3	172.66	33.365	172.66	33.365	24.079	19.32%	8.8143	7.37%
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	24	23	186.13	12.522	186.44	11.195	2.9178	6.00%	5.3008	7.28%
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	18	17	198.90	16.722	197.60	15.682	4.7544	7.94%	5.2348	7.22%
025.43	Iron, ICP, Microwave (mg / kg (ppm))	18	18	194.29	23.052	195.95	16.459	4.8492	8.40%	7.2014	7.23%

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025.52	Iron, ICP-MS, Open vessel (mg / kg (ppm))	1	1	196.98							
025.53	Iron, ICP-MS, Microwave (mg / kg (ppm))	4	4	195.55	18.604	195.55	18.604	11.628	9.51%	4.2625	7.23%
025.99	Iron, Miscellaneous (mg / kg (ppm))	3	3	194.87	0.55076	194.87	0.55076	0.39748	0.28%	8.8000	7.23%
027.31	Magnesium, AAS, Dry ash (%)	13	12	0.08864	0.00675	0.08887	0.00675	0.00244	7.60%	0.00246	5.76%
027.32	Magnesium, AAS, Open vessel (%)	3	3	0.09568	0.00402	0.09568	0.00402	0.00290	4.20%	0.00403	5.69%
027.33	Magnesium, AAS, Microwave (%)	2	2	0.08455	0.00219						
027.35	Magnesium, AAS, Open vessel (%)	1	1	0.08900							
027.41	Magnesium, ICP, Dry ash (%)	26	25	0.09092	0.00620	0.09092	0.00644	0.00161	7.09%	0.00162	5.74%
027.42	Magnesium, ICP, Open vessel (%)	22	21	0.13383	0.17573	0.09625	0.00980	0.00267	10.18%	0.00222	5.69%
027.43	Magnesium, ICP, Microwave (%)	22	21	0.09275	0.00673	0.09219	0.00624	0.00170	6.77%	0.00297	5.73%
027.44	Magnesium, ICP, Dry ash (%)	4	4	0.09013	0.00328	0.09013	0.00328	0.00205	3.64%	0.00075	5.75%
027.52	Magnesium, ICP-MS, Open vessel (%)	2	2	0.09530	0.00948						
027.53	Magnesium, ICP-MS, Microwave (%)	4	3	0.08563	0.01413	0.08563	0.01413	0.01020	16.50%	0.00060	5.79%
027.99	Magnesium, Miscellaneous (%)	4	3	0.08617	0.01514	0.08617	0.01514	0.01338	17.57%	0.00033	5.78%
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	14	14	60.732	5.9667	61.285	5.3001	1.7706	8.65%	0.52257	8.61%
028.32	Manganese, AAS, Open vessel (mg / kg (ppm))	4	2	64.745	0.41012	64.745	0.41012			0.74000	8.54%
028.33	Manganese, AAS, Microwave (mg / kg (ppm))	2	2	58.419	0.44371						
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	23	22	60.885	9.7698	62.681	4.7920	1.2771	7.65%	1.2645	8.58%
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	23	22	63.691	4.6219	63.751	3.5406	0.94356	5.55%	1.2225	8.56%
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	18	18	62.305	6.5754	63.393	4.0052	1.1800	6.32%	1.8246	8.57%
028.44	Manganese, ICP, Dry ash (mg / kg (ppm))	1	1	53.500							
028.52	Manganese, ICP-MS, Open vessel (mg / kg (ppm))	1	1	69.000							
028.53	Manganese, ICP-MS, Microwave (mg / kg (ppm))	6	6	62.184	2.8013	62.184	3.1767	1.6211	5.11%	0.42833	8.59%
028.99	Manganese, Miscellaneous (mg / kg (ppm))	4	4	62.311	3.8926	62.311	3.8926	2.4329	6.25%	4.0425	8.59%
031.00	Phosphorus, Vol (%)	2	2	1.1675	0.01768						
031.01	Phosphorus, Photometric (%)	50	49	1.0993	0.05053	1.1031	0.03562	0.00636	3.23%	0.01867	3.94%
031.02	Phosphorus, GQMP (AOAC 935.13-Extraction) (%)	2	2	1.1450	0.02828						
031.03	Phosphorus, Autoanalyzer (%)	3	3	1.1130	0.04343	1.1130	0.04343	0.03134	3.90%	0.01623	3.94%
031.06	Phosphorus, Hach Method (%)	1	1	1.1050							
031.41	Phosphorus, ICP, Dry ash (%)	30	29	1.1265	0.07566	1.1188	0.04582	0.01064	4.10%	0.02260	3.93%
031.42	Phosphorus, ICP, Open vessel (%)	22	22	1.1071	0.06101	1.1045	0.06305	0.01680	5.71%	0.02874	3.94%
031.43	Phosphorus, ICP, Microwave (%)	27	27	1.1225	0.04853	1.1237	0.05211	0.01254	4.64%	0.01928	3.93%
031.44	Phosphorus, ICP, Dry ash (%)	4	4	1.1092	0.01258	1.1092	0.01258	0.00786	1.13%	0.01333	3.94%
031.52	Phosphorus, ICP-MS, Open vessel (%)	2	2	1.0115	0.07633						
031.53	Phosphorus, ICP-MS, Microwave (%)	5	4	1.0771	0.13617	1.0771	0.13617	0.08511	12.64%	0.01225	3.96%
031.99	Phosphorus, Miscellaneous (%)	7	7	1.0468	0.12351	1.0474	0.13860	0.06548	13.23%	0.03329	3.97%
032.02	Potassium, Flame Emission (%)	1	1	0.73000							
032.31	Potassium, AAS, Dry ash (%)	15	15	0.75062	0.03646	0.74995	0.03003	0.00969	4.00%	0.01269	4.18%
032.32	Potassium, AAS, Open vessel (%)	2	2	0.69750	0.06010						
032.41	Potassium, ICP, Dry ash (%)	26	26	0.75667	0.05301	0.75341	0.04759	0.01167	6.32%	0.01467	4.17%

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032.42	Potassium, ICP, Open vessel (%)	22	21	0.76381	0.03937	0.76255	0.03872	0.01056	5.08%	0.01960	4.17%
032.43	Potassium, ICP, Microwave (%)	22	22	0.74414	0.04723	0.74868	0.04252	0.01133	5.68%	0.01726	4.18%
032.44	Potassium, ICP, Dry ash (%)	4	4	0.75109	0.02884	0.75109	0.02884	0.01803	3.84%	0.00983	4.18%
032.52	Potassium, ICP-MS, Open vessel (%)	2	2	0.73103	0.03369						
032.53	Potassium, ICP-MS, Microwave (%)	4	4	0.84663	0.11010	0.84663	0.11010	0.06881	13.00%	0.03425	4.10%
032.99	Potassium, Miscellaneous (%)	5	5	0.72830	0.06097	0.72830	0.06097	0.03408	8.37%	0.01140	4.20%
033.00	Salt as chloride, Sol Cl (%)	22	22	1.2492	0.16122	1.2680	0.13530	0.03606	10.67%	0.03340	3.86%
033.01	Salt as chloride, Poten Cl (%)	27	25	1.4151	0.02520	1.4155	0.02375	0.00594	1.68%	0.01088	3.80%
033.03	Salt as chloride, Quantab (%)	3	3	0.96833	0.78215	0.96833	0.78215	0.69133	80.77%	0.00333	4.02%
033.05	Salt as chloride, Ion Sel Electrode (%)	3	3	1.3717	0.11361	1.3717	0.11361	0.08199	8.28%	0.01000	3.81%
033.99	Salt, Miscellaneous (%)	6	5	1.3840	0.11765	1.3840	0.11765	0.07110	8.50%	0.01200	3.81%
034.01	Selenium, Fluor (mg / kg (ppm))	1	1	0.93160							
034.04	Selenium, AA, Hydride (mg / kg (ppm))	4	4	0.85874	0.02976	0.85874	0.02976	0.01860	3.47%	0.07578	16.37%
034.41	Selenium, ICP, Dry ash (mg / kg (ppm))	4	3	0.47317	0.26241	0.47317	0.26241	0.23194	55.46%	0.00367	17.90%
034.42	Selenium, ICP, Open vessel (mg / kg (ppm))	2	1	1.6000							
034.43	Selenium, ICP, Microwave (mg / kg (ppm))	3	2	2.0262	2.2470	2.0262	2.2470			0.19990	14.38%
034.52	Selenium, ICP-MS, Open vessel (mg / kg (ppm))	5	4	1.0904	0.07951	1.0904	0.07951	0.04969	7.29%	0.11220	15.79%
034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	10	10	0.95588	0.15229	0.95588	0.17269	0.06826	18.07%	0.05276	16.11%
034.99	Selenium, Miscellaneous (mg / kg (ppm))	1	1	1.7100							
035.01	Sodium, Ion-selective electrode (%)	2	2	0.60150	0.02051						
035.05	Sodium, Flame Emission (%)	4	4	0.68250	0.03122	0.68250	0.03122	0.01951	4.57%	0.04000	4.24%
035.31	Sodium, AAS, Dry ash (%)	19	18	0.63659	0.07830	0.62660	0.04824	0.01421	7.70%	0.01338	4.29%
035.32	Sodium, AAS, Open vessel (%)	1	1	0.47000							
035.41	Sodium, ICP, Dry ash (%)	29	28	0.63344	0.03499	0.63337	0.03494	0.00825	5.52%	0.00872	4.28%
035.42	Sodium, ICP, Open vessel (%)	16	16	0.62736	0.02665	0.62784	0.02917	0.00911	4.65%	0.01749	4.29%
035.43	Sodium, ICP, Microwave (%)	19	18	0.61864	0.03636	0.61888	0.03883	0.01144	6.27%	0.01128	4.30%
035.52	Sodium, ICP-MS, Open vessel (%)	2	2	0.68098	0.09500						
035.53	Sodium, ICP-MS, Microwave (%)	5	4	0.62813	0.02567	0.62813	0.02567	0.01604	4.09%	0.01275	4.29%
035.99	Sodium, Miscellaneous (%)	4	3	0.64667	0.01528	0.64667	0.01528	0.01103	2.36%	0.01333	4.27%
036.04	Sulfur, LECO (%)	3	3	0.53000	0.05679	0.53000	0.05679	0.04098	10.72%	0.02667	4.40%
036.42	Sulfur, ICP, Open vessel (%)	20	19	0.56514	0.04606	0.56452	0.04983	0.01429	8.83%	0.00934	4.36%
036.43	Sulfur, ICP, Microwave (%)	11	11	0.54020	0.06134	0.54690	0.05218	0.01967	9.54%	0.00903	4.38%
036.52	Sulfur, ICP-MS, Open vessel (%)	2	2	0.52823	0.00852						
036.53	Sulfur, ICP-MS, Microwave (%)	1	1	0.55900							
036.99	Sulfur, Miscellaneous (%)	2	2	0.56150	0.03041						
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	17	16	235.56	26.579	234.74	18.265	5.7077	7.78%	1.9129	7.03%
037.32	Zinc, AAS, Open vessel (mg / kg (ppm))	4	4	248.42	13.594	248.42	13.594	8.4963	5.47%	6.2045	6.98%
037.33	Zinc, AAS, Microwave (mg / kg (ppm))	4	3	240.84	14.612	240.84	14.612	10.545	6.07%	4.3757	7.01%
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	24	24	245.84	18.101	244.54	15.081	3.8480	6.17%	9.0946	6.99%
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	22	21	242.07	19.079	243.59	13.451	3.6690	5.52%	5.6665	7.00%

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037.43	Zinc, ICP, Microwave (mg / kg (ppm))	23	22	240.53	18.777	243.15	13.955	3.7191	5.74%	4.0746	7.00%
037.44	Zinc, ICP, Dry ash (mg / kg (ppm))	2	2	235.69	5.9220						
037.52	Zinc, ICP-MS, Open vessel (mg / kg (ppm))	2	2	227.00	35.355						
037.53	Zinc, ICP-MS, Microwave (mg / kg (ppm))	7	7	237.88	21.869	240.82	17.477	8.2573	7.26%	9.1071	7.01%
037.99	Zinc, Miscellaneous (mg / kg (ppm))	6	6	231.90	34.171	231.90	38.750	19.775	16.71%	9.9333	7.05%
038.41	Molybdenum, ICP, Dry ash (mg / kg (ppm))	2	2	0.78800	0.22203						
038.42	Molybdenum, ICP, Open vessel (mg / kg (ppm))	4	4	1.1470	0.33888	1.1470	0.33888	0.21180	29.54%	0.21350	15.67%
038.43	Molybdenum, ICP, Microwave (mg / kg (ppm))	5	5	0.81529	0.31150	0.81529	0.31150	0.17413	38.21%	0.06998	16.50%
038.52	Molybdenum, ICP-MS, Open vessel (mg / kg (ppm))	2	2	0.81393	0.02273						
038.53	Molybdenum, ICP-MS, Microwave (mg / kg (ppm))	3	3	0.83077	0.09416	0.83077	0.09416	0.08323	11.33%	0.00487	16.45%
040.42	Barium, ICP, Open vessel (mg / kg (ppm))	1	1	2.8500							
040.53	Barium, ICP-MS, Microwave (mg / kg (ppm))	1	1	2.7103							
041.53	Vanadium, ICP-MS, Microwave (mg / kg (ppm))	1	1	0.15450							
042.00	Chloride, Titrimetric (%)	1	1	0.85800							
042.99	Chloride, Miscellaneous (%)	1	1	0.84500							
101.00	Choline Chloride, Microbiological (mg / kg (ppm))	1	1	2,585.0							
101.02	Choline Chloride, LC (mg / kg (ppm))	1	1	2,708.0							
101.99	Choline Chloride, Miscellaneous (mg / kg (ppm))	1	1	2,391.0							
102.01	Niacin, Microbiological (mg / kg (ppm))	1	1	205.50							
102.99	Niacin, Miscellaneous (mg / kg (ppm))	1	1	158.38							
103.01	Pantothenic Acid, Microbiological (mg / kg (ppm))	1	1	58.300							
103.02	Pantothenic Acid, LC (mg / kg (ppm))	1	1	60.900							
103.99	Pantothenic Acid, Miscellaneous (mg / kg (ppm))	1	1	74.050							
104.00	Riboflavin, Fluorometric (mg / kg (ppm))	1	1	25.050							
104.03	Riboflavin, LC (mg / kg (ppm))	2	2	22.483	5.8513						
104.99	Riboflavin, Miscellaneous (mg / kg (ppm))	1	1	26.280							
105.00	Thiamine, LC (mg / kg (ppm))	3	3	193.83	109.49	193.83	109.49	96.776	56.49%	8.1067	7.24%
105.01	Thiamine, Fluorometer (mg / kg (ppm))	1	1	263.00							
105.99	Thiamine, Miscellaneous (mg / kg (ppm))	1	1	269.71							
106.00	Vitamin A, Color (KU / kg)	1	1	17.600							
106.01	Vitamin A, UV (KU / kg)	2	2	15.660	10.239						
106.02	Vitamin A, LC (KU / kg)	25	24	18.433	7.1357	17.852	5.7667	1.4714	32.30%	1.9641	
106.99	Vitamin A, Miscellaneous (KU / kg)	2	2	23.185	14.616						
107.00	Vitamin B12, Microbiological (µg / kg (ppb))	1	1	119.50							
108.02	Vitamin D3, LC (KU / kg)	5	4	3.3125	1.2363	3.3125	1.2363	0.77269	37.32%	0.21000	
108.99	Vitamin D3, Miscellaneous (KU / kg)	1	1	4.0750							
109.02	Vitamin E, LC (IU / kg)	24	23	224.13	102.27	225.92	86.555	22.560	38.31%	5.0700	
109.99	Vitamin E, Miscellaneous (IU / kg)	4	4	193.30	69.699	193.30	69.699	43.562	36.06%	7.2625	
111.01	Vitamin C, Ascorbic Acid, LC (mkg/kg (ppm))	1	1	39.150							
111.99	Vitamin C, Phosphorylated, Miscellaneous (mg / kg (ppm))	1	1	80.790							

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112.01	Pyridoxine, LC (µg / g)	1	1	22.500							
112.99	Pyridoxine, Miscellaneous (µg / g)	1	1	20.905							
113.01	Folic Acid, Micro (mg / kg (ppm))	1	1	6.2050							
113.99	Folic acid, Miscellaneous (mg / kg (ppm))	1	1	6.2550							
114.01	Biotin, Microbiological (mg / kg (ppm))	1	1	0.34750							
120.00	Alanine, Post-col Ninhydrin Der (%)	23	22	2.2956	0.13378	2.3008	0.10558	0.02814	4.59%	0.03352	3.53%
120.01	Alanine, Pre-col OPA Der (%)	1	1	2.4200							
120.02	Alanine, Post-col OPA Der (%)	2	2	2.2628	0.09581						
120.05	Alanine, Pre-col AQC Der (%)	6	6	2.1924	0.13376	2.1917	0.15007	0.07658	6.85%	0.12750	3.55%
120.99	Alanine, Miscellaneous (%)	3	3	2.1442	0.08273	2.1442	0.08273	0.05971	3.86%	0.06877	3.57%
121.00	Arginine, Post-col Ninhydrin Der (%)	23	22	1.9420	0.08630	1.9491	0.06627	0.01766	3.40%	0.03955	3.62%
121.01	Arginine, Pre-col OPA Der (%)	1	1	2.1100							
121.02	Arginine, Post-col OPA Der (%)	2	2	1.9690	0.05798						
121.05	Arginine, Pre-col AQC Der (%)	6	6	1.8418	0.08470	1.8418	0.09605	0.04902	5.22%	0.08217	3.65%
121.99	Arginine, Miscellaneous (%)	3	3	1.7546	0.14933	1.7546	0.14933	0.10777	8.51%	0.02153	3.68%
122.00	Aspartic, Post-col Ninhydrin Der (%)	23	23	2.7935	0.17075	2.7993	0.10314	0.02688	3.68%	0.05086	3.43%
122.01	Aspartic, Pre-col OPA Der (%)	1	1	3.2550							
122.02	Aspartic, Post-col OPA Der (%)	2	2	2.8390	0.01273						
122.05	Aspartic, Pre-col AQC Der (%)	6	5	2.6791	0.13544	2.6791	0.13544	0.08703	5.06%	0.07300	3.45%
122.99	Aspartic, Miscellaneous (%)	2	2	2.4647	0.15015						
124.00	Cysteine/Cystine, PAO Post-col Ninhytri (%)	22	22	0.56099	0.06098	0.55879	0.04316	0.01150	7.72%	0.01330	4.37%
124.01	Cysteine/Cystine, PAO Pre-col OPA Der (%)	1	1	0.59000							
124.02	Cysteine/Cystine, PAO Post-col OPA Der (%)	2	2	0.55425	0.01308						
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	4	3	0.52167	0.00764	0.52167	0.00764	0.00551	1.46%	0.02333	4.41%
124.99	Cysteine/Cystine, Miscellaneous (%)	4	4	0.55499	0.10893	0.55499	0.10893	0.06808	19.63%	0.00993	4.37%
125.00	Glutamic, Post-col Ninhydrin Der (%)	22	22	5.8966	0.38835	5.8735	0.28332	0.07551	4.82%	0.08371	3.06%
125.01	Glutamic, Pre-col OPA Der (%)	1	1	6.1400							
125.02	Glutamic, Post-col OPA Der (%)	2	2	6.0380	0.32103						
125.05	Glutamic, Pre-col AQC Der (%)	6	5	5.6789	0.27034	5.6789	0.27034	0.17447	4.76%	0.12100	3.08%
125.99	Glutamic, Miscellaneous (%)	3	3	5.8315	0.33020	5.8315	0.33020	0.23830	5.66%	0.03363	3.07%
126.00	Glycine, Post-col Ninhydrin Der (%)	23	22	2.0987	0.13461	2.1031	0.10800	0.02878	5.14%	0.02996	3.58%
126.01	Glycine, Pre-col OPA Der (%)	1	1	2.2150							
126.02	Glycine, Post-col OPA Der (%)	2	2	2.1065	0.03323						
126.05	Glycine, Pre-col AQC Der (%)	6	6	2.1278	0.11495	2.1278	0.13036	0.06652	6.13%	0.11917	3.57%
126.99	Glycine, Miscellaneous (%)	3	3	1.9099	0.18716	1.9099	0.18716	0.13507	9.80%	0.07043	3.63%
127.00	Histidine, Post-col Ninhydrin Der (%)	23	23	0.77206	0.06839	0.77149	0.06860	0.01788	8.89%	0.01740	4.16%
127.01	Histidine, Pre-col OPA Der (%)	1	1	0.86500							
127.02	Histidine, Post-col OPA Der (%)	2	2	0.75700	0.02546						
127.05	Histidine, Pre-col AQC Der (%)	6	6	0.67392	0.11769	0.68787	0.09942	0.05074	14.45%	0.03317	4.23%
127.99	Histidine, Miscellaneous (%)	3	3	0.72635	0.13946	0.72635	0.13946	0.12327	19.20%	0.01523	4.20%

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128.00	Isoleucine, Post-col Ninhydrin Der (%)	23	23	1.3487	0.11053	1.3685	0.06585	0.01716	4.81%	0.03279	3.82%
128.01	Isoleucine, Pre-col OPA Der (%)	1	1	1.5600							
128.02	Isoleucine, Post-col OPA Der (%)	2	2	1.3548	0.00742						
128.05	Isoleucine, Pre-col AQC Der (%)	6	6	1.2003	0.26488	1.2003	0.30037	0.15328	25.03%	0.08717	3.89%
128.99	Isoleucine, Miscellaneous (%)	3	3	1.2624	0.11344	1.2624	0.11344	0.08187	8.99%	0.02857	3.86%
129.00	Leucine, Post-col Ninhydrin Der (%)	23	22	3.4679	0.16725	3.4755	0.15490	0.04128	4.46%	0.05263	3.32%
129.01	Leucine, Pre-col OPA Der (%)	1	1	3.7250							
129.02	Leucine, Post-col OPA Der (%)	2	2	3.4568	0.00955						
129.05	Leucine, Pre-col AQC Der (%)	6	5	3.3120	0.10314	3.3120	0.10314	0.05766	3.11%	0.03600	3.34%
129.99	Leucine, Miscellaneous (%)	3	3	3.0856	0.32520	3.0856	0.32520	0.23469	10.54%	0.04303	3.38%
130.00	L-Lysine, Post-col Ninhydrin Der (%)	23	23	1.5955	0.11058	1.5997	0.09759	0.02544	6.10%	0.03594	3.73%
130.01	L-Lysine, Pre-col OPA Der (%)	1	1	1.7450							
130.02	L-Lysine, Post-col OPA Der (%)	2	2	1.6755	0.04172						
130.05	L-Lysine, Pre-col AQC Der (%)	6	5	1.5311	0.12250	1.5311	0.12250	0.06848	8.00%	0.05540	3.75%
130.99	L-Lysine, Miscellaneous (%)	5	5	1.5696	0.28454	1.5696	0.28454	0.15906	18.13%	0.05042	3.74%
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	23	23	0.71591	0.06151	0.71319	0.05472	0.01426	7.67%	0.01996	4.21%
131.01	Methionine, PAO Pre-col OPA Der (%)	1	1	0.73000							
131.02	Methionine, PAO Post-col OPA Der (%)	2	2	0.70125	0.01237						
131.05	Methionine, PAO Pre-col AQC Der (%)	5	4	0.67475	0.08220	0.67475	0.08220	0.05138	12.18%	0.01400	4.24%
131.99	Methionine, Miscellaneous (%)	4	4	0.62493	0.18883	0.62493	0.18883	0.11802	30.22%	0.02940	4.29%
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	23	23	1.7000	0.08667	1.7014	0.05105	0.01331	3.00%	0.03088	3.69%
132.01	Phenylalanine, Pre-col OPA Der (%)	1	1	1.8050							
132.02	Phenylalanine, Post-col OPA Der (%)	2	2	1.7108	0.05551						
132.05	Phenylalanine, Pre-col AQC Der (%)	6	6	1.6377	0.11656	1.6187	0.08515	0.04345	5.26%	0.05433	3.72%
132.99	Phenylalanine, Miscellaneous (%)	3	3	1.5233	0.23734	1.5233	0.23734	0.17129	15.58%	0.00730	3.75%
133.00	Proline, Post-col Ninhydrin Der (%)	23	22	2.3746	0.20601	2.3846	0.14416	0.03842	6.05%	0.04854	3.51%
133.05	Proline, Pre-col AQC Der (%)	7	7	2.4066	0.08889	2.3946	0.07091	0.03350	2.96%	0.12629	3.51%
133.99	Proline, Miscellaneous (%)	4	4	2.2949	0.19932	2.2949	0.19932	0.12458	8.69%	0.07543	3.53%
134.00	Serine, Post-col Ninhydrin Der (%)	23	22	1.6218	0.09726	1.6218	0.07474	0.01992	4.61%	0.03350	3.72%
134.01	Serine, Pre-col OPA Der (%)	1	1	1.6900							
134.02	Serine, Post-col OPA Der (%)	2	2	1.5593	0.06470						
134.05	Serine, Pre-col AQC Der (%)	6	6	1.6569	0.13795	1.6455	0.12907	0.06587	7.84%	0.06417	3.71%
134.99	Serine, Miscellaneous (%)	3	3	1.6450	0.16430	1.6450	0.16430	0.11857	9.99%	0.00683	3.71%
135.00	Threonine, Post-col Ninhydrin Der (%)	23	23	1.2960	0.08725	1.2897	0.06920	0.01804	5.37%	0.01957	3.85%
135.01	Threonine, Pre-col OPA Der (%)	1	1	1.3050							
135.02	Threonine, Post-col OPA Der (%)	2	2	1.2980	0.00424						
135.05	Threonine, Pre-col AQC Der (%)	6	6	1.2063	0.05668	1.2063	0.06428	0.03280	5.33%	0.06183	3.89%
135.99	Threonine, Miscellaneous (%)	4	4	1.3113	0.12387	1.3113	0.12387	0.07742	9.45%	0.01480	3.84%
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	7	7	0.27600	0.04232	0.27600	0.04799	0.02268	17.39%	0.01700	4.85%
136.01	Tryptophan, Alka-Hydrol Rev Phase LC UV (%)	3	3	0.31155	0.02201	0.31155	0.02201	0.01588	7.06%	0.00177	4.77%



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136.02	Tryptophan, Alka-Hydrol Post-col OPA De (%)	2	2	0.27300	0.04667						
136.03	Tryptophan, Alka-Hydrol + IS RP LC FI (%)	5	4	0.31393	0.00963	0.31393	0.00963	0.00602	3.07%	0.00665	4.76%
136.99	Tryptophan, Miscellaneous (%)	3	3	0.26677	0.04788	0.26677	0.04788	0.03455	17.95%	0.01667	4.88%
137.00	Tyrosine, Post-col Ninhydrin Der (%)	16	16	1.2817	0.16607	1.2691	0.10815	0.03380	8.52%	0.02530	3.86%
137.01	Tyrosine, Pre-col OPA Der (%)	1	1	1.2250							
137.02	Tyrosine, Post-col OPA Der (%)	2	2	1.2068	0.20046						
137.05	Tyrosine, Pre-col AQC Der (%)	6	6	1.3106	0.13262	1.3153	0.13920	0.07104	10.58%	0.02383	3.84%
137.99	Tyrosine, Miscellaneous (%)	3	3	1.1049	0.26128	1.1049	0.26128	0.18856	23.65%	0.01427	3.94%
138.00	Valine, Post-col Ninhydrin Der (%)	22	22	1.5597	0.13354	1.5745	0.11087	0.02955	7.04%	0.02922	3.74%
138.01	Valine, Pre-col OPA Der (%)	1	1	1.6650							
138.02	Valine, Post-col OPA Der (%)	2	2	1.6093	0.04137						
138.05	Valine, Pre-col AQC Der (%)	6	6	1.4234	0.18873	1.4234	0.21402	0.10922	15.04%	0.10350	3.79%
138.99	Valine, Miscellaneous (%)	4	4	1.4971	0.18844	1.4971	0.18844	0.11778	12.59%	0.01195	3.76%
139.00	Taurine, Post-col Ninhydrin Der (%)	3	3	0.19650	0.07770	0.19650	0.07770	0.05608	39.54%	0.02033	5.11%
139.02	Taurine, Post-col OPA Der (%)	1	1	0.17700							
139.03	Taurine, Pre-col Dansyl Cl Der (%)	1	1	0.17000							
139.05	Taurine, Pre-col AQC Der (%)	2	2	0.15050	0.00071						
139.99	Taurine, Miscellaneous (%)	5	5	0.21898	0.11140	0.21898	0.11140	0.06227	50.87%	0.01552	5.03%
160.99	Fructose, Miscellaneous (%)	5	3	0.18317	0.02495	0.18317	0.02495	0.01801	13.62%	0.00433	5.16%
161.99	Galactose, Miscellaneous (%)	1		0.00000							
162.99	Glucose, Miscellaneous (%)	6	4	0.16000	0.04566	0.16000	0.04566	0.02854	28.54%	0.00700	5.27%
163.99	Lactose, Miscellaneous (%)	5									
164.99	Maltose, Miscellaneous (%)	4	2	0.16800	0.14425	0.16800	0.14425			0.02500	5.23%
165.99	Sucrose, Miscellaneous (%)	5	4	0.70725	0.08550	0.70725	0.08550	0.05344	12.09%	0.02000	4.21%
166.99	Raffinose, Miscellaneous (%)	3	3	0.10350	0.00926	0.10350	0.00926	0.00818	8.95%	0.01833	5.63%
167.99	Stachyose, Miscellaneous (%)	3	3	0.38333	0.03819	0.38333	0.03819	0.02756	9.96%	0.01933	4.62%
400.01	Water Activity, Aqualab chilled mirror (Units)	8	8	0.44662	0.03346	0.44383	0.03123	0.01380	7.04%	0.00274	
400.99	Water Activity, Miscellaneous (Units)	3	3	0.43500	0.00854	0.43500	0.00854	0.00616	1.96%	0.00267	
412.01	Starch, Dietary, Enzymatic-Colorimetric (%)	1	1	27.365							
516.00	Arsenic, Total, AA, Hydride (mg / kg (ppm))	3	3	0.10900	0.08271	0.10900	0.08271	0.05969	75.88%	0.01867	22.00%
516.43	Arsenic, Total, ICP, Microwave (mg / kg (ppm))	2	1	2.3698							
516.52	Arsenic, Total, ICP-MS, Open vessel (mg / kg (ppm))	2	2	0.20530	0.01372						
516.53	Arsenic, Total, ICP-MS, Microwave (mg / kg (ppm))	5	5	0.23749	0.03291	0.23749	0.03291	0.01840	13.86%	0.01162	19.86%
518.41	Cadmium, ICP, Dry ash (mg / kg (ppm))	1	1	0.04800							
518.43	Cadmium, ICP, Microwave (mg / kg (ppm))	1	1	0.07000							
518.52	Cadmium, ICP-MS, Open vessel (mg / kg (ppm))	1	1	0.05000							
518.53	Cadmium, ICP-MS, Microwave (mg / kg (ppm))	5	4	0.04920	0.00441	0.04920	0.00441	0.00276	8.96%	0.00100	22.00%
520.41	Chromium, ICP, Dry ash (mg / kg (ppm))	1	1	0.92450							
520.42	Chromium, ICP, Open vessel (mg / kg (ppm))	2	2	0.97050	0.02121						
520.43	Chromium, ICP, Microwave (mg / kg (ppm))	1	1	1.2100							

Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO PT ffp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Average Range (R-bar)	Horwitz %RSD
520.52	Chromium, ICP-MS, Open vessel (mg / kg (ppm))	1	1	0.53310							
520.53	Chromium, ICP-MS, Microwave (mg / kg (ppm))	2	2	1.2323	0.80511						
526.41	Lead, ICP, Dry ash (mg / kg (ppm))	1		0.05000							
526.52	Lead, ICP-MS, Open vessel (mg / kg (ppm))	1	1	0.08165							
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	5	5	0.07199	0.01295	0.07199	0.01295	0.00724	17.99%	0.01142	22.00%
539.41	Nickel, ICP, Dry ash (mg / kg (ppm))	1	1	0.63100							
539.52	Nickel, ICP-MS, Open vessel (mg / kg (ppm))	1	1	1.3959							
539.53	Nickel, ICP-MS, Microwave (mg / kg (ppm))	1	1	1.4765							
702.00	Butyric Acid (4:0), Miscellaneous GC (%)	1		0.00000							
704.00	Caproic Acid (6:0), Miscellaneous GC (%)	1	1	0.00100							
706.01	Caprylic acid (8:0), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.00100							
708.01	Capric acid (10:0), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.00300							
708.99	Capric acid (10:0), Miscellaneous (%) (w/w)	1	1	0.01000							
710.01	Lauric Acid (12:0), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.02450							
710.99	Lauric Acid (12:0), Miscellaneous (%) (w/w)	4	2	0.00808	0.00293	0.00808	0.00293			0.00065	
714.01	Myristic Acid (14:0), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.28200							
714.99	Myristic Acid (14:0), Miscellaneous (%) (w/w)	3	3	0.34050	0.05153	0.34050	0.05153	0.04555	15.13%	0.01720	
716.01	Palmitic Acid (16:0), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	2.7350							
716.99	Palmitic Acid (16:0), Miscellaneous (%) (w/w)	3	3	2.9658	0.29000	2.9658	0.29000	0.20929	9.78%	0.06547	
718.01	Palmitoleic Acid (9c-16:1), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.52100							
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (%) (w/w)	4	4	0.45401	0.05752	0.45401	0.05752	0.03595	12.67%	0.01663	
720.99	Margaric acid (17:0), Miscellaneous (%) (w/w)	1	1	0.18000							
722.01	Stearic Acid (18:0), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	1.6550							
722.99	Stearic Acid (18:0), Miscellaneous (%) (w/w)	2	2	1.4662	0.09019						
724.01	Oleic Acid (9c-18:1), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	4.2500							
724.99	Oleic Acid (9c-18:1), Miscellaneous (%) (w/w)	3	3	5.2101	0.44580	5.2101	0.44580	0.32173	8.56%	0.10307	
726.01	Linoleic Acid (9c,12c-18:2), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	2.1500							
726.02	Linoleic Acid (9c,12c-18:2), Direct Methylation by Acid-Alkali Hydrolysis & GC (%)	2	2	2.3650	0.87681						
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (%) (w/w)	9	9	1.8441	0.26860	1.8441	0.30459	0.12691	16.52%	0.04922	
728.01	alpha-Linolenic Acid (9c,12c,15c-18:3), Direct Methylation by Alkali Hydrolysis	1	1	0.26200							
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellaneous (%) (w/w)	4	4	0.31063	0.05280	0.31063	0.05280	0.03300	17.00%	0.00775	
730.01	Arachidic Acid (20:0), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.04000							
730.99	Arachidic Acid (20:0), Miscellaneous (%) (w/w)	1	1	0.03500							
732.01	Gondoic Acid (11c-20:1), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.16100							
732.99	Gondoic Acid (11c-20:1), Miscellaneous (%) (w/w)	1	1	0.20180							
736.01	Arachidonic Acid (5c,8c,11c,14c-20:4), Direct Methylation by Alkali Hydrolysis	1	1	0.03350							
736.99	Arachidonic Acid (5c,8c,11c,14c-20:4), Miscellaneous (%) (w/w)	2	2	0.08325	0.00460						
738.01	Mead Acid (11c,14c,17c-20:3), Direct Methylation by Alkali Hydrolysis & GC (%)	1	1	0.03350							
740.01	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5), Direct Methylation by Al	1	1	0.07750							
740.99	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5), Miscellaneous (%) (w/w)	4	4	0.10393	0.02817	0.10393	0.02817	0.01761	27.10%	0.00550	

Test Material Code # 201825

Issue Date : 06/30/2018

Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO PT ffp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Average Range (R-bar)	Horwitz %RSD
742.99	Behenic Acid (22:0), Miscellaneous (% (w/w))	3	2	0.01268	0.00378	0.01268	0.00378			0.00085	
744.01	Erucic Acid (13c-22:1), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1		0.00000							
744.99	Erucic Acid (13c-22:1), Miscellaneous (% (w/w))	2	2	0.05723	0.05264						
746.01	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5), Direct Methylation	1	1	0.04050							
746.99	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5), Miscellaneous (% (w/w))	3	3	0.03830	0.00534	0.03830	0.00534	0.00385	13.94%	0.00213	
748.99	Lignoceric Acid (24:0), Miscellaneous (% (w/w))	1	1	0.01315							
750.01	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6), Direct Methylation	1	1	0.09250							
750.02	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6), Direct Methylation	1	1	0.16160							
750.99	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6), Miscellaneous (% (w/w))	4	4	0.16461	0.04116	0.16461	0.04116	0.02573	25.00%	0.00768	
752.01	Nervonic Acid (24:1) isomers, Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1		0.00000							
752.99	Nervonic Acid (24:1) isomers, Miscellaneous (% (w/w))	2	2	0.01893	0.00152						
754.02	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Direct Methylation by Acid- <del>f</del>	1	1	0.59000							
754.99	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Miscellaneous (% (w/w))	5	5	0.63400	0.09633	0.63400	0.09633	0.05385	15.19%	0.02280	
756.01	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Direct Methylation by Alkali	1	1	1.9200							
756.02	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Direct Methylation by Acid- <del>f</del>	2	2	2.7015	1.1010						
756.99	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Miscellaneous (% (w/w))	8	8	1.9141	0.30601	1.9141	0.34702	0.15336	18.13%	0.04088	
758.02	Total Saturated Fatty Acids, Direct Methylation by Acid-Alkali Hydrolysis & GC	1	1	4.5960							
758.99	Total Saturated Fatty Acids, Miscellaneous (% (w/w))	3	3	4.8943	0.62943	4.8943	0.62943	0.45425	12.86%	0.04667	
762.99	Total Monounsaturated Fatty Acids, Miscellaneous (% (w/w))	2	2	6.0768	0.15309						
764.99	Total cis Monounsaturated Fatty Acids, Miscellaneous (% (w/w))	1	1	6.5700							
766.99	Total Polyunsaturated Fatty Acids, Miscellaneous (% (w/w))	3	3	2.0375	1.5819	2.0375	1.5819	1.1416	77.64%	0.01783	
770.99	Total Fat (equivalent to NLEA), Miscellaneous (% (w/w))	1	1	14.790							
772.02	Total Fatty Acids, Direct Methylation by Acid-Alkali Hydrolysis & GC (% (w/w))	1	1	12.850							
772.99	Total Fatty Acids, Miscellaneous (% (w/w))	2	2	13.942	0.28001						

Notes: Robust statistics not used if < 6 labs reporting, in this case means and SD's may be reported based on Raw Data with obvious blunders removed.

Animal Feed Scheme

**Method Precision Report**

# Methods Reported: 93

Dry Cat Food

# Labs Reporting: 225

Test Material Code # 201825

Issue Date : 06/30/2018

Method Code	Analyte and Method	Total # Labs Submitting	# Labs used in Precision Calcs	Precision Mean	Precision SD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	51	45	6.1930	0.36772	0.22580	0.07944	0.23937	3.60%	1.266%	3.82%	3.0132
001.99	Loss on Drying, Miscellaneous (%)	29	27	6.2291	0.51823	0.41525	0.07978	0.42285	6.60%	1.269%	6.72%	5.3001
002.01	Protein, Crude, Auto Kjel-Foss (%)	17	16	34.863	0.51761	0.33157	0.14542	0.36206	0.95%	0.418%	1.04%	2.4897
002.05	Protein, Crude, Copper, Boric Acid (%)	37	35	34.683	0.47678	0.17945	0.13713	0.22585	0.52%	0.394%	0.65%	1.6469
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	145	137	35.270	0.50021	0.25537	0.22737	0.34192	0.73%	0.646%	0.97%	1.5038
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	12	11	12.473	1.0967	0.42179	0.21388	0.47292	3.46%	1.756%	3.88%	2.2111
003.06	Fat, Crude, Pet Ether (%)	21	19	12.054	0.23310	0.12340	0.18495	0.22233	1.02%	1.530%	1.84%	1.2021
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	13	11	11.992	0.19113	0.18655	0.05880	0.19560	1.56%	0.490%	1.63%	3.3262
003.10	Fat, Crude, Randall, Pet Ether (%)	34	29	11.899	0.35719	0.28606	0.13051	0.31442	2.39%	1.092%	2.63%	2.4092
003.14	Fat, Crude, Ankom (%)	42	41	12.082	0.23144	0.18424	0.18051	0.25793	1.52%	1.493%	2.13%	1.4289
004.00	Fiber, Crude, Asbestos Free (%)	20	19	1.1093	0.35852	0.36132	0.06121	0.36647	32.94%	5.581%	33.41%	5.9868
004.06	Fiber, Crude, Fibertec (%)	27	24	1.1825	0.45775	0.36494	0.10048	0.37852	32.38%	8.915%	33.59%	3.7673
004.07	Fiber, Crude, ANKOM (%)	64	57	1.2625	0.52505	0.43597	0.10573	0.44861	36.16%	8.769%	37.21%	4.2431
005.00	Ash, 2h @ 600°C (%)	111	103	6.9323	0.12945	0.09086	0.05242	0.10490	1.31%	0.756%	1.51%	2.0011
005.05	Ash, 3h @ 550°C (%)	42	37	7.0247	0.08688	0.07177	0.05399	0.08981	1.02%	0.769%	1.28%	1.6635
005.99	Ash, Miscellaneous (%)	13	13	7.0123	0.14838	0.14128	0.06412	0.15515	2.01%	0.914%	2.21%	2.4197
008.02	Fiber, Acid Detergent, Crucible (%)	16	14	2.3896	2.0762	0.89913	0.21205	0.92380	47.23%	11.138%	48.52%	4.3565
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	40	37	2.7090	1.6206	1.4808	0.24116	1.5003	56.99%	9.281%	57.74%	6.2212
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	14	13	7.1833	2.7980	2.9038	0.28730	2.9180	40.30%	3.987%	40.49%	10.157
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	42	40	7.1223	3.1594	3.1556	0.21775	3.1631	44.31%	3.057%	44.41%	14.526
010.99	Moisture, Miscellaneous (%)	22	20	6.4070	0.50284	0.45735	0.05445	0.46058	7.19%	0.857%	7.25%	8.4583
011.01	Loss on Drying, 135°C 2hr (%)	77	71	6.9400	0.29352	0.25211	0.06313	0.25989	3.61%	0.905%	3.73%	4.1168
012.00	Starch, Polarimetric (Ewers) (%)	18	17	27.575	1.3697	1.1067	0.25538	1.1357	3.98%	0.920%	4.09%	4.4473
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	9	9	26.911	2.4358	2.3138	1.0767	2.5520	8.60%	4.001%	9.48%	2.3702
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	25	23	15.555	0.86052	0.59812	0.22241	0.63813	3.81%	1.418%	4.07%	2.8692
013.02	Fat, Acid Pretreat, Mojonier, Bak Ext (%)	31	28	16.029	0.76010	0.41022	0.23272	0.47164	2.56%	1.453%	2.95%	2.0266
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	15	15	15.410	0.51058	0.47100	0.27875	0.54731	3.06%	1.809%	3.55%	1.9634
013.13	Fat, Acid Pretreat, Ankom- Acid Hydrolysis (%)	9	8	15.620	0.93297	0.47056	0.21815	0.51867	3.07%	1.421%	3.38%	2.3775
019.00	Calcium, Ox-Mn04 Vol. (%)	14	13	1.2510	0.05738	0.03804	0.02592	0.04603	3.01%	2.054%	3.65%	1.7758
019.08	Calcium, EDTA (%)	13	12	1.2804	0.18662	0.11053	0.03528	0.11603	8.36%	2.668%	8.77%	3.2883
019.31	Calcium, AAS, Dry ash (%)	23	21	1.2677	0.09248	0.06717	0.01961	0.06997	5.24%	1.530%	5.46%	3.5688
019.41	Calcium, ICP, Dry ash (%)	32	31	1.2819	0.07882	0.06577	0.03261	0.07342	5.16%	2.558%	5.76%	2.2511
019.42	Calcium, ICP, Open vessel (%)	23	22	1.2978	0.09331	0.09154	0.03554	0.09819	7.07%	2.743%	7.58%	2.7626
019.43	Calcium, ICP, Microwave (%)	28	25	1.2891	0.09124	0.04944	0.01798	0.05261	3.79%	1.380%	4.04%	2.9263
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	14	13	18.576	4.7610	4.7598	0.14723	4.7621	25.62%	0.793%	25.64%	32.344

Method Code	Analyte and Method	Total # Labs Submitting	# Labs used in Precision Calcs	Precision Mean	Precision SD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	25	24	17.652	3.0568	2.4363	1.3396	2.7803	13.55%	7.448%	15.46%	2.0755
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	23	21	18.537	3.7599	2.4197	0.55571	2.4827	12.63%	2.901%	12.96%	4.4676
022.43	Copper, ICP, Microwave (mg / kg (ppm))	19	15	17.565	2.2607	1.0691	0.58659	1.2195	5.84%	3.205%	6.66%	2.0789
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	14	13	197.46	10.066	9.6184	4.1970	10.494	4.87%	2.125%	5.31%	2.5004
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	24	21	186.13	12.522	10.474	4.3306	11.334	5.59%	2.312%	6.05%	2.6173
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	18	16	198.90	16.722	12.841	3.9569	13.437	6.54%	2.016%	6.85%	3.3958
025.43	Iron, ICP, Microwave (mg / kg (ppm))	18	17	194.29	23.052	14.747	7.0508	16.346	7.43%	3.554%	8.24%	2.3183
027.31	Magnesium, AAS, Dry ash (%)	13	12	0.08864	0.00675	0.00640	0.00306	0.00709	7.22%	3.450%	8.00%	2.3192
027.41	Magnesium, ICP, Dry ash (%)	26	22	0.09092	0.00620	0.00636	0.00052	0.00638	7.01%	0.568%	7.03%	12.379
027.42	Magnesium, ICP, Open vessel (%)	22	18	0.13383	0.17573	0.00822	0.00174	0.00840	8.65%	1.835%	8.84%	4.8163
027.43	Magnesium, ICP, Microwave (%)	22	20	0.09275	0.00673	0.00505	0.00339	0.00608	5.49%	3.688%	6.61%	1.7934
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	14	12	60.732	5.9667	4.1222	0.37558	4.1393	6.71%	0.611%	6.73%	11.021
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	23	21	60.885	9.7698	4.7129	1.2075	4.8652	7.51%	1.925%	7.76%	4.0291
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	23	22	63.691	4.6219	4.5469	1.1729	4.6957	7.14%	1.842%	7.37%	4.0036
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	18	16	62.305	6.5754	3.7641	1.3522	3.9996	5.95%	2.138%	6.32%	2.9578
031.01	Phosphorus, Photometric (%)	50	46	1.0993	0.05053	0.03377	0.01547	0.03715	3.07%	1.405%	3.37%	2.4017
031.41	Phosphorus, ICP, Dry ash (%)	30	27	1.1265	0.07566	0.04504	0.01875	0.04879	4.05%	1.685%	4.38%	2.6020
031.42	Phosphorus, ICP, Open vessel (%)	22	22	1.1071	0.06101	0.05740	0.02921	0.06441	5.19%	2.638%	5.82%	2.2052
031.43	Phosphorus, ICP, Microwave (%)	27	27	1.1225	0.04853	0.04689	0.01773	0.05013	4.18%	1.579%	4.47%	2.8277
032.31	Potassium, AAS, Dry ash (%)	15	14	0.75062	0.03646	0.02815	0.01024	0.02995	3.78%	1.375%	4.02%	2.9257
032.41	Potassium, ICP, Dry ash (%)	26	24	0.75667	0.05301	0.04214	0.01240	0.04393	5.58%	1.643%	5.82%	3.5427
032.42	Potassium, ICP, Open vessel (%)	22	19	0.76381	0.03937	0.03260	0.01536	0.03604	4.30%	2.024%	4.75%	2.3468
032.43	Potassium, ICP, Microwave (%)	22	20	0.74414	0.04723	0.04030	0.01527	0.04309	5.38%	2.039%	5.75%	2.8214
033.00	Salt as chloride, Sol Cl (%)	22	20	1.2492	0.16122	0.10158	0.03602	0.10777	7.88%	2.796%	8.37%	2.9921
033.01	Salt as chloride, Poten Cl (%)	27	23	1.4151	0.02520	0.02095	0.00886	0.02275	1.48%	0.625%	1.61%	2.5686
034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	10	10	0.95588	0.15229	0.14899	0.04460	0.15552	15.59%	4.666%	16.27%	3.4867
035.31	Sodium, AAS, Dry ash (%)	19	16	0.63659	0.07830	0.04253	0.01173	0.04411	6.87%	1.895%	7.13%	3.7604
035.41	Sodium, ICP, Dry ash (%)	29	28	0.63344	0.03499	0.03458	0.00759	0.03540	5.46%	1.198%	5.59%	4.6658
035.42	Sodium, ICP, Open vessel (%)	16	16	0.62736	0.02665	0.02428	0.01551	0.02881	3.87%	2.472%	4.59%	1.8578
035.43	Sodium, ICP, Microwave (%)	19	17	0.61864	0.03636	0.03611	0.00847	0.03709	5.85%	1.373%	6.01%	4.3789
036.42	Sulfur, ICP, Open vessel (%)	20	19	0.56514	0.04606	0.04574	0.00777	0.04639	8.09%	1.374%	8.21%	5.9729
036.43	Sulfur, ICP, Microwave (%)	11	10	0.54020	0.06134	0.03972	0.00725	0.04038	7.16%	1.307%	7.28%	5.5697
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	17	14	235.56	26.579	19.364	1.4879	19.421	8.34%	0.641%	8.37%	13.052
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	24	22	245.84	18.101	11.783	7.5320	13.985	4.86%	3.107%	5.77%	1.8567
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	22	19	242.07	19.079	12.459	4.3568	13.199	5.08%	1.775%	5.38%	3.0294
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	23	20	240.53	18.777	12.840	3.3139	13.261	5.26%	1.357%	5.43%	4.0016
106.02	Vitamin A, LC (KU / kg)	25	23	18.433	7.1357	5.0680	1.2746	5.2258	29.12%	7.325%	30.03%	4.1001
109.02	Vitamin E, LC (IU / kg)	24	21	224.13	102.27	106.93	3.4542	106.99	47.80%	1.544%	47.82%	30.974
120.00	Alanine, Post-col Ninhydrin Der (%)	23	20	2.2956	0.13378	0.11249	0.02558	0.11536	4.86%	1.105%	4.98%	4.5092
121.00	Arginine, Post-col Ninhydrin Der (%)	23	20	1.9420	0.08630	0.05724	0.02969	0.06448	2.93%	1.520%	3.30%	2.1717
122.00	Aspartic, Post-col Ninhydrin Der (%)	23	22	2.7935	0.17075	0.14049	0.04967	0.14901	4.99%	1.765%	5.30%	2.9999
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin (%)	22	21	0.56099	0.06098	0.04553	0.01082	0.04680	8.24%	1.959%	8.47%	4.3253
125.00	Glutamic, Post-col Ninhydrin Der (%)	22	21	5.8966	0.38835	0.32382	0.07788	0.33306	5.54%	1.331%	5.69%	4.2764

**Test Material Code # 201825**
**Issue Date : 06/30/2018**

Method Code	Analyte and Method	Total # Labs Submitting	# Labs used in Precision Calcs	Precision Mean	Precision SD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr
126.00	Glycine, Post-col Ninhydrin Der (%)	23	21	2.0987	0.13461	0.13197	0.02410	0.13415	6.27%	1.144%	6.37%	5.5657
127.00	Histidine, Post-col Ninhydrin Der (%)	23	22	0.77206	0.06839	0.06895	0.01458	0.07048	8.95%	1.892%	9.14%	4.8326
128.00	Isoleucine, Post-col Ninhydrin Der (%)	23	22	1.3487	0.11053	0.07277	0.03319	0.07998	5.33%	2.430%	5.86%	2.4096
129.00	Leucine, Post-col Ninhydrin Der (%)	23	21	3.4679	0.16725	0.15241	0.04122	0.15788	4.38%	1.183%	4.53%	3.8305
130.00	L-Lysine, Post-col Ninhydrin Der (%)	23	21	1.5955	0.11058	0.08854	0.03120	0.09388	5.50%	1.939%	5.83%	3.0084
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	23	22	0.71591	0.06151	0.06016	0.01580	0.06220	8.44%	2.216%	8.72%	3.9369
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	23	21	1.7000	0.08667	0.03888	0.02619	0.04688	2.28%	1.539%	2.75%	1.7900
133.00	Proline, Post-col Ninhydrin Der (%)	23	18	2.3746	0.20601	0.10694	0.03121	0.11140	4.47%	1.305%	4.66%	3.5692
134.00	Serine, Post-col Ninhydrin Der (%)	23	19	1.6218	0.09726	0.05683	0.02407	0.06171	3.51%	1.486%	3.81%	2.5642
135.00	Threonine, Post-col Ninhydrin Der (%)	23	22	1.2960	0.08725	0.06267	0.01864	0.06538	4.88%	1.453%	5.09%	3.5072
137.00	Tyrosine, Post-col Ninhydrin Der (%)	16	15	1.2817	0.16607	0.10707	0.02404	0.10974	8.57%	1.924%	8.78%	4.5649
138.00	Valine, Post-col Ninhydrin Der (%)	22	20	1.5597	0.13354	0.09828	0.02178	0.10067	6.24%	1.384%	6.39%	4.6221
400.01	Water Activity, Aqualab chilled mirror (Units)	8	8	0.44662	0.03346	0.03342	0.00233	0.03350	7.48%	0.523%	7.50%	14.355
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (% (w/w))	9	9	1.8441	0.26860	0.26675	0.04455	0.27044	14.46%	2.416%	14.66%	6.0711
756.99	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Miscellaneous (% (w/w))	8	8	1.9141	0.30601	0.30503	0.03468	0.30699	15.94%	1.812%	16.04%	8.8517

Notes: Precision Calculations provided for methods with 8 or more labs used in calculations.