

Animal Feed Scheme

Equine Feed

Test Material Code # 202121

Method Summary Report

(Precision Report Follows)

Labs Reporting: 151

Methods Reported: 371

Issue Date : 02/28/2021

Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO #fp Robust SD	Uncertainty (U) Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
000.02	Urea, As protein, Colorimetric (%)	1	1	0.4500							
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	42	41	7.749	0.3870	7.734	0.2262	0.0442	2.92%	0.1588	2.94%
001.99	Loss on Drying, Miscellaneous (%)	15	15	7.585	0.5100	7.674	0.3325	0.1073	4.33%	0.1196	2.94%
001.00	Loss on Drying, Vac 95°C 5 hr (%)	4	4	7.637	0.2555	7.637	0.2555	0.1277	3.34%	0.1118	2.95%
001.03	Loss on Drying, Low temp. methods (%)	2	2	7.658	0.2510						
001.05	Loss on Drying, LECO (%)	2	2	7.765	0.4879						
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	105	103	14.24	0.3346	14.23	0.2493	0.0307	1.75%	0.1224	2.65%
002.05	Protein, Crude, Copper, Boric Acid (%)	21	20	13.91	0.3246	13.98	0.1596	0.0446	1.14%	0.0883	2.67%
002.01	Protein, Crude, Auto Kjeh-Foss (%)	12	12	14.08	0.2198	14.07	0.2400	0.0866	1.71%	0.1234	2.67%
002.11	Protein, Crude, NIR (%)	4	4	13.88	0.5997	13.88	0.5997	0.2999	4.32%	0.1325	2.68%
002.02	Protein, Crude, Semiauto Autoanalyzer (%)	2	2	13.74	0.4739						
002.04	Protein, Crude, Copper Catalyst (%)	2	2	14.07	0.1202						
002.08	Protein, Crude, Cu/Ti (%)	2	2	14.73	0.9504						
002.10	Protein, Crude, Block dig/distillation (%)	1	1	14.22							
003.14	Fat, Crude, Ankom (%)	41	41	6.001	1.446	6.071	1.444	0.2818	23.78%	0.3226	3.05%
003.10	Fat, Crude, Randall, Pet Ether (%)	22	21	8.153	0.8821	8.013	0.2768	0.0755	3.45%	0.1020	2.92%
003.06	Fat, Crude, Pet Ether (%)	14	14	8.114	0.5151	8.233	0.2470	0.0825	3.00%	0.1213	2.91%
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	12	12	8.177	0.3114	8.230	0.1945	0.0702	2.36%	0.1073	2.91%
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	11	10	7.878	1.390	8.265	0.2857	0.1129	3.46%	0.0950	2.91%
003.13	Fat, Crude, Randall, Hexane Ext. (%)	6	6	8.140	0.2219	8.163	0.1944	0.0992	2.38%	0.1731	2.92%
003.11	Fat, Crude, NIR (%)	4	4	9.001	0.6822	9.001	0.6822	0.3411	7.58%	0.1575	2.87%
003.99	Fat, Crude, Miscellaneous (%)	3	3	8.005	0.7275	8.005	0.7275	0.5144	9.09%	0.1433	2.92%
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirect (%)	2	2	5.970	3.133						
003.12	Fat, Crude, Hexane Ext (%)	2	2	8.428	0.4207						
004.07	Fiber, Crude, ANKOM (%)	61	59	14.44	1.466	14.57	0.8937	0.1454	6.14%	0.2755	2.62%
004.06	Fiber, Crude, Fibertec (%)	13	13	14.41	0.8160	14.38	0.8572	0.2972	5.96%	0.1968	2.64%
004.00	Fiber, Crude, Asbestos Free (%)	12	12	14.50	0.4946	14.44	0.4142	0.1494	2.87%	0.3273	2.63%
004.03	Fiber, Crude, Fritted Glass (%)	3	3	14.24	0.7643	14.24	0.7643	0.4413	5.37%	0.4733	2.65%
004.11	Fiber, Crude, NIR (%)	3	3	13.65	2.883	13.65	2.883	1.665	21.13%	0.4133	2.70%

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004.99	Fiber, Crude, Miscellaneous (%)	2	2	14.08	0.5296						
005.00	Ash, 2h @ 600°C (%)	68	66	10.40	0.1983	10.41	0.1898	0.0292	1.82%	0.1314	2.81%
005.05	Ash, 3h @ 550°C (%)	19	19	10.60	0.1973	10.60	0.1988	0.0570	1.88%	0.1335	2.80%
005.99	Ash, Miscellaneous (%)	8	8	10.67	0.4103	10.73	0.3041	0.1344	2.83%	0.1525	2.80%
005.11	Ash, NIR (%)	3	3	8.810	0.2607	8.810	0.2607	0.1844	2.96%	0.3467	2.88%
005.02	Ash, LECO (%)	2	2	10.37	0.1195						
006.00	Total Sugars, As sucrose (%)	4	4	3.284	1.414	3.284	1.414	0.7069	43.05%	0.1275	3.34%
006.99	Total Sugars, Miscellaneous (%)	1	1	4.100							
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	36	34	18.95	0.9638	18.91	0.7830	0.1679	4.14%	0.2390	2.30%
008.02	Fiber, Acid Detergent, Crucible (%)	13	13	18.99	0.5921	19.00	0.6612	0.2292	3.48%	0.2462	2.29%
008.99	Fiber, Acid Detergent, Miscellaneous (%)	7	7	22.05	8.301	19.68	2.832	1.338	14.39%	0.5411	2.25%
008.05	Fiber, Acid Detergent, Acid Detergent-Hach (%)	1	1	20.45							
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	35	34	34.79	2.228	34.90	1.022	0.2191	2.93%	0.3827	1.69%
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	12	11	35.69	1.663	35.95	1.144	0.4311	3.18%	0.3993	1.67%
009.99	Fiber, Neutral Detergent, Miscellaneous (%)	5	5	36.22	3.428	36.22	3.428	1.533	9.46%	0.4360	1.66%
009.04	Fiber, Neutral Detergent, Neutral Det-No ENZ Pretreat (%)	1	1	34.13							
010.99	Moisture, Miscellaneous (%)	12	11	7.895	0.5302	7.875	0.5548	0.2091	7.05%	0.1336	2.93%
010.11	Moisture, NIR (%)	3	3	7.913	0.7478	7.913	0.7478	0.5288	9.45%	0.5667	2.93%
010.03	Moisture, Karl-Fischer (%)	2	2	7.500	0.1556						
011.01	Loss on Drying, HT, 135°C 2hr (%)	57	56	8.582	0.3994	8.553	0.3216	0.0537	3.76%	0.1189	2.90%
011.02	Loss on Drying, HT, 130°C for 2 hours (%)	3	3	8.452	0.1177	8.452	0.1177	0.0680	1.39%	0.1033	2.90%
011.99	Loss on Drying, HT, High Temp. Methods Miscellaneous (%)	2	2	8.345	0.3461						
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	12	12	13.75	1.164	13.61	0.9716	0.3506	7.14%	0.2314	2.70%
012.00	Starch, Polarimetric (Ewers) (%)	8	7	15.63	0.4036	15.63	0.4577	0.2163	2.93%	0.1186	2.53%
012.03	Starch, Enzymatic-Colorimetric Method, Miscellaneous (%)	3	3	12.96	1.255	12.96	1.255	0.7248	9.69%	0.1681	2.72%
012.04	Starch, Enzymatic-Enzyme Membrane Technology (YSI) (%)	4	3	13.30	1.522	13.30	1.522	0.8786	11.44%	0.6617	2.71%
012.11	Starch, NIR (%)	3	3	16.82	1.985	16.82	1.985	1.146	11.80%	0.4817	2.44%
012.20	Starch, Dietary, Enzymatic-Colorimetric (%)	1	1	12.85							
013.02	Fat, Acid Pretreat, Mojonier, Bak Ext (%)	17	17	9.384	0.6350	9.488	0.4345	0.1317	4.58%	0.1751	2.85%
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	15	15	8.730	0.8514	8.818	0.7229	0.2333	8.20%	0.2025	2.88%
013.13	Fat, Acid Pretreat, Ankom- Acid Hydrolysis (%)	8	8	9.470	1.294	9.474	1.458	0.6442	15.39%	0.6009	2.85%
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	6	6	8.714	0.2971	8.706	0.3197	0.1631	3.67%	0.0642	2.89%
013.08	Fat, Base Pretreat, Roese-Gottlieb Modified (%)	1	1	6.469							
015.43	Aluminum, ICP, Microwave (ppm)	8	8	208.9	23.69	208.9	26.86	11.87	12.86%	6.986	7.16%
015.41	Aluminum, ICP, Dry ash (ppm)	6	6	173.5	21.21	173.5	24.05	12.27	13.87%	4.224	7.36%
015.42	Aluminum, ICP, Open vessel (ppm)	2	2	133.6	31.75						
015.53	Aluminum, ICP-MS, Microwave (ppm)	2	2	217.3	42.01						
015.52	Aluminum, ICP-MS, Open vessel (ppm)	1	1	180.1							
017.42	Boron, ICP, Open vessel (ppm)	5	5	8.378	2.857	8.378	2.857	1.278	34.10%	0.3328	11.62%
017.43	Boron, ICP, Microwave (ppm)	7	5	11.52	2.476	11.52	2.476	1.384	21.50%	0.8139	11.07%

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017.41	Boron, ICP, Dry ash (ppm)	5	4	10.05	0.1770	10.05	0.1770	0.0885	1.76%	0.8336	11.30%
017.53	Boron, ICP-MS, Microwave (ppm)	2	2	10.07	0.2411						
019.43	Calcium, ICP, Microwave (%)	30	29	1.653	0.0796	1.651	0.0877	0.0203	5.31%	0.0280	3.71%
019.41	Calcium, ICP, Dry ash (%)	25	25	1.618	0.0621	1.619	0.0663	0.0166	4.10%	0.0390	3.72%
019.31	Calcium, AAS, Dry ash (%)	15	14	1.749	0.7447	1.582	0.1149	0.0384	7.26%	0.0568	3.73%
019.42	Calcium, ICP, Open vessel (%)	13	12	1.655	0.1270	1.655	0.1263	0.0456	7.63%	0.0623	3.71%
019.08	Calcium, EDTA (%)	7	7	1.605	0.0459	1.605	0.0521	0.0246	3.25%	0.0148	3.72%
019.00	Calcium, Ox-Mn04 Vol. (%)	6	6	1.664	0.0673	1.666	0.0708	0.0361	4.25%	0.0330	3.70%
019.53	Calcium, ICP-MS, Microwave (%)	6	6	1.559	0.1805	1.589	0.1313	0.0670	8.26%	0.0519	3.73%
019.99	Calcium, Miscellaneous (%)	5	5	1.490	0.0790	1.490	0.0790	0.0353	5.30%	0.0350	3.77%
019.52	Calcium, ICP-MS, Open vessel (%)	4	4	1.505	0.2580	1.505	0.2580	0.1290	17.14%	0.0497	3.76%
019.44	Calcium, ICP, Dry ash (%)	2	2	1.675	0.1061						
019.03	Calcium, Semiauto (Autoanalyzer) (%)	1	1	1.643							
021.43	Cobalt, ICP, Microwave (ppm)	8	8	16.16	2.689	16.32	2.669	1.179	16.35%	0.4902	10.51%
021.53	Cobalt, ICP-MS, Microwave (ppm)	8	8	12.58	4.949	12.58	5.612	2.480	44.60%	0.6855	10.93%
021.41	Cobalt, ICP, Dry ash (ppm)	6	6	13.63	3.370	13.63	3.821	1.950	28.03%	0.3001	10.80%
021.52	Cobalt, ICP-MS, Open vessel (ppm)	4	4	8.089	1.702	8.089	1.702	0.8511	21.04%	0.1875	11.68%
021.31	Cobalt, AAS, Dry ash (ppm)	3	3	60.02	75.32	60.02	75.32	53.26	125.49%	1.801	8.64%
021.42	Cobalt, ICP, Open vessel (ppm)	2	2	12.73	0.2563						
022.43	Copper, ICP, Microwave (ppm)	26	26	140.4	9.600	140.2	9.842	2.413	7.02%	4.845	7.60%
022.41	Copper, ICP, Dry ash (ppm)	17	17	134.7	9.345	134.2	8.960	2.716	6.67%	3.502	7.65%
022.42	Copper, ICP, Open vessel (ppm)	15	15	136.0	13.94	136.7	12.36	3.990	9.05%	4.555	7.63%
022.31	Copper, AAS, Dry ash (ppm)	10	10	128.8	36.75	138.4	10.68	4.221	7.72%	3.623	7.62%
022.53	Copper, ICP-MS, Microwave (ppm)	6	6	126.5	19.66	126.5	22.29	11.38	17.63%	6.223	7.72%
022.52	Copper, ICP-MS, Open vessel (ppm)	3	3	129.1	1.976	129.1	1.976	1.141	1.53%	10.90	7.70%
022.99	Copper, Miscellaneous (ppm)	3	3	135.5	4.770	135.5	4.770	2.754	3.52%	5.667	7.64%
022.33	Copper, AAS, Microwave (ppm)	2	2	145.6	2.546						
022.44	Copper, ICP, Dry ash (ppm)	2	2	146.6	5.098						
024.52	Iodine, ICP-MS, Open vessel (ppm)	1	1	4.412							
025.43	Iron, ICP, Microwave (ppm)	26	25	756.9	63.25	761.8	58.57	14.64	7.69%	24.00	5.89%
025.41	Iron, ICP, Dry ash (ppm)	20	20	716.0	70.83	723.3	62.10	17.36	8.59%	12.40	5.94%
025.31	Iron, AAS, Dry ash (ppm)	12	12	705.4	146.0	730.5	88.75	32.03	12.15%	17.86	5.93%
025.42	Iron, ICP, Open vessel (ppm)	12	11	616.2	190.0	623.9	198.5	74.82	31.82%	23.68	6.07%
025.53	Iron, ICP-MS, Microwave (ppm)	5	5	588.8	247.7	588.8	247.7	110.8	42.06%	41.81	6.13%
025.99	Iron, Miscellaneous (ppm)	3	3	736.5	41.52	736.5	41.52	23.97	5.64%	15.67	5.92%
025.52	Iron, ICP-MS, Open vessel (ppm)	2	2	363.5	147.9						
027.43	Magnesium, ICP, Microwave (%)	28	26	0.4244	0.0196	0.4249	0.0201	0.0049	4.74%	0.0092	4.55%
027.41	Magnesium, ICP, Dry ash (%)	18	18	0.4197	0.0203	0.4218	0.0171	0.0050	4.05%	0.0071	4.55%
027.42	Magnesium, ICP, Open vessel (%)	14	14	0.4133	0.0413	0.4202	0.0256	0.0085	6.08%	0.0092	4.56%
027.31	Magnesium, AAS, Dry ash (%)	11	11	0.4168	0.0656	0.4293	0.0368	0.0139	8.58%	0.0188	4.54%

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027.53	Magnesium, ICP-MS, Microwave (%)	6	6	0.4148	0.0671	0.4152	0.0752	0.0384	18.10%	0.0131	4.57%
027.52	Magnesium, ICP-MS, Open vessel (%)	4	4	0.4525	0.0166	0.4525	0.0166	0.0083	3.68%	0.0081	4.51%
027.99	Magnesium, Miscellaneous (%)	4	3	0.4183	0.0076	0.4183	0.0076	0.0044	1.83%	0.0100	4.56%
027.33	Magnesium, AAS, Microwave (%)	2	2	0.4123	0.0039						
027.44	Magnesium, ICP, Dry ash (%)	2	2	0.4285	0.0021						
028.43	Manganese, ICP, Microwave (ppm)	27	27	335.3	16.21	335.8	16.41	3.948	4.89%	12.16	6.67%
028.41	Manganese, ICP, Dry ash (ppm)	16	16	318.1	28.53	322.9	19.03	5.948	5.89%	8.958	6.71%
028.42	Manganese, ICP, Open vessel (ppm)	15	15	323.9	35.66	327.7	23.80	7.681	7.26%	11.35	6.69%
028.31	Manganese, AAS, Dry ash (ppm)	12	12	292.3	67.13	298.9	61.38	22.15	20.54%	6.448	6.78%
028.53	Manganese, ICP-MS, Microwave (ppm)	7	7	306.3	32.45	314.3	15.26	7.212	4.86%	23.89	6.73%
028.52	Manganese, ICP-MS, Open vessel (ppm)	3	3	325.6	35.07	325.6	35.07	20.25	10.77%	17.03	6.70%
028.99	Manganese, Miscellaneous (ppm)	3	3	321.2	12.57	321.2	12.57	7.259	3.91%	3.000	6.71%
028.44	Manganese, ICP, Dry ash (ppm)	2	2	320.2	39.26						
028.33	Manganese, AAS, Microwave (ppm)	1	1	310.0							
031.43	Phosphorus, ICP, Microwave (%)	30	29	1.071	0.0414	1.069	0.0402	0.0093	3.76%	0.0225	3.96%
031.01	Phosphorus, Photometric (%)	27	25	1.052	0.0266	1.053	0.0254	0.0063	2.41%	0.0121	3.97%
031.41	Phosphorus, ICP, Dry ash (%)	23	23	1.046	0.0507	1.045	0.0517	0.0135	4.95%	0.0266	3.97%
031.42	Phosphorus, ICP, Open vessel (%)	14	14	1.020	0.0507	1.027	0.0379	0.0127	3.69%	0.0468	3.98%
031.53	Phosphorus, ICP-MS, Microwave (%)	6	6	1.260	0.4534	1.106	0.1017	0.0519	9.19%	0.0381	3.94%
031.44	Phosphorus, ICP, Dry ash (%)	3	3	1.068	0.0476	1.068	0.0476	0.0337	4.46%	0.0297	3.96%
031.99	Phosphorus, Miscellaneous (%)	4	3	0.9867	0.0257	0.9867	0.0257	0.0148	2.60%	0.0133	4.01%
031.02	Phosphorus, GQMP (AOAC 935.13-Extraction) (%)	1	1	1.063							
031.03	Phosphorus, Autoanalyzer (%)	1	1	1.023							
031.06	Phosphorus, Hach Method (%)	1	1	0.3950							
031.52	Phosphorus, ICP-MS, Open vessel (%)	1	1	1.204							
032.43	Potassium, ICP, Microwave (%)	29	29	1.129	0.0593	1.132	0.0600	0.0139	5.30%	0.0234	3.93%
032.41	Potassium, ICP, Dry ash (%)	21	21	1.115	0.0398	1.116	0.0411	0.0112	3.68%	0.0287	3.93%
032.42	Potassium, ICP, Open vessel (%)	13	13	1.114	0.0977	1.129	0.0662	0.0229	5.86%	0.0214	3.93%
032.31	Potassium, AAS, Dry ash (%)	9	9	1.105	0.0832	1.106	0.0921	0.0384	8.32%	0.0222	3.94%
032.53	Potassium, ICP-MS, Microwave (%)	6	6	1.083	0.1627	1.088	0.1742	0.0889	16.02%	0.0480	3.95%
032.99	Potassium, Miscellaneous (%)	5	5	1.053	0.1204	1.053	0.1204	0.0538	11.43%	0.0230	3.97%
032.52	Potassium, ICP-MS, Open vessel (%)	3	3	1.125	0.0400	1.125	0.0400	0.0283	3.55%	0.0119	3.93%
032.44	Potassium, ICP, Dry ash (%)	2	2	1.148	0.0106						
033.01	Salt as chloride, Poten Cl (%)	26	25	1.431	0.2517	1.444	0.0463	0.0116	3.21%	0.0264	3.78%
033.00	Salt as chloride, Sol Cl (%)	15	15	1.377	0.2048	1.422	0.0841	0.0271	5.91%	0.0363	3.79%
033.99	Salt, Miscellaneous (%)	11	11	1.354	0.1185	1.377	0.0636	0.0240	4.62%	0.0484	3.81%
033.03	Salt as chloride, Quantab (%)	4	4	1.428	0.2066	1.428	0.2066	0.1033	14.47%	0.1050	3.79%
033.05	Salt as chloride, Ion Sel Electrode (%)	1	1	1.335							
034.53	Selenium, ICP-MS, Microwave (ppm)	10	9	1.538	0.1552	1.545	0.1588	0.0662	10.28%	0.0831	14.98%
034.52	Selenium, ICP-MS, Open vessel (ppm)	4	4	1.439	0.2208	1.439	0.2208	0.1104	15.35%	0.0825	15.14%

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034.04	Selenium, AA, Hydride (ppm)	4	3	1.392	0.1168	1.392	0.1168	0.0674	8.39%	0.0712	15.22%
034.43	Selenium, ICP, Microwave (ppm)	4	3	1.909	0.3439	1.909	0.3439	0.1985	18.01%	0.0627	14.51%
034.41	Selenium, ICP, Dry ash (ppm)	2	2	1.283	0.0813						
034.99	Selenium, Miscellaneous (ppm)	1	1	1.365							
035.43	Sodium, ICP, Microwave (%)	23	22	0.5200	0.0280	0.5235	0.0217	0.0058	4.15%	0.0101	4.41%
035.41	Sodium, ICP, Dry ash (%)	21	20	0.5178	0.0242	0.5178	0.0244	0.0068	4.71%	0.0143	4.42%
035.42	Sodium, ICP, Open vessel (%)	12	12	0.5336	0.0611	0.5197	0.0227	0.0082	4.36%	0.0090	4.41%
035.31	Sodium, AAS, Dry ash (%)	10	10	0.5119	0.0342	0.5112	0.0360	0.0142	7.04%	0.0111	4.42%
035.53	Sodium, ICP-MS, Microwave (%)	6	6	0.5008	0.0817	0.5019	0.0900	0.0459	17.93%	0.0339	4.44%
035.99	Sodium, Miscellaneous (%)	5	5	0.5954	0.4728	0.5954	0.4728	0.2114	79.40%	0.0148	4.32%
035.52	Sodium, ICP-MS, Open vessel (%)	2	2	0.5357	0.0217						
035.01	Sodium, Ion-selective electrode (%)	1	1	0.5305							
035.05	Sodium, Flame Emission (%)	1	1	0.5000							
036.43	Sulfur, ICP, Microwave (%)	19	19	0.3217	0.0207	0.3233	0.0180	0.0052	5.56%	0.0077	4.74%
036.42	Sulfur, ICP, Open vessel (%)	15	15	0.3091	0.0321	0.3077	0.0307	0.0099	9.97%	0.0104	4.78%
036.04	Sulfur, LECO (%)	2	2	0.3215	0.0304						
036.53	Sulfur, ICP-MS, Microwave (%)	2	2	0.2573	0.0739						
036.99	Sulfur, Miscellaneous (%)	2	2	0.2750	0.0354						
037.43	Zinc, ICP, Microwave (ppm)	28	27	450.6	20.46	450.0	20.19	4.857	4.49%	10.81	6.38%
037.41	Zinc, ICP, Dry ash (ppm)	17	17	430.5	32.51	430.1	32.96	9.992	7.66%	16.10	6.42%
037.42	Zinc, ICP, Open vessel (ppm)	14	14	447.7	38.41	447.0	41.64	13.91	9.31%	18.03	6.38%
037.31	Zinc, AAS, Dry ash (ppm)	12	11	407.6	75.69	424.3	25.28	9.528	5.96%	5.878	6.44%
037.53	Zinc, ICP-MS, Microwave (ppm)	6	6	397.6	54.73	400.0	26.62	13.58	6.65%	22.72	6.49%
037.99	Zinc, Miscellaneous (ppm)	4	4	430.8	44.00	430.8	44.00	22.00	10.21%	6.463	6.42%
037.52	Zinc, ICP-MS, Open vessel (ppm)	3	3	436.9	66.58	436.9	66.58	38.44	15.24%	41.20	6.41%
037.33	Zinc, AAS, Microwave (ppm)	2	2	441.2	1.651						
037.44	Zinc, ICP, Dry ash (ppm)	2	2	432.1	47.19						
038.43	Molybdenum, ICP, Microwave (ppm)	8	7	2.634	0.3797	2.634	0.4306	0.2034	16.35%	0.0445	13.83%
038.53	Molybdenum, ICP-MS, Microwave (ppm)	5	5	2.660	0.4931	2.660	0.4931	0.2205	18.54%	0.1804	13.81%
038.41	Molybdenum, ICP, Dry ash (ppm)	4	4	2.640	0.3906	2.640	0.3906	0.1953	14.79%	0.1264	13.82%
038.42	Molybdenum, ICP, Open vessel (ppm)	4	4	2.824	0.6880	2.824	0.6880	0.3440	24.36%	0.2063	13.68%
038.52	Molybdenum, ICP-MS, Open vessel (ppm)	1	1	2.010							
040.53	Barium, ICP-MS, Microwave (ppm)	2	2	11.81	0.3309						
040.52	Barium, ICP-MS, Open vessel (ppm)	1	1	13.68							
041.53	Vanadium, ICP-MS, Microwave (ppm)	2	2	1.165	0.1135						
042.00	Chloride, Titrimetric (%)	2	2	0.8825	0.0035						
042.99	Chloride, Miscellaneous (%)	1	1	0.8900							
102.01	Niacin, Microbiological (ppm)	1	1	15.30							
103.01	Pantothenic Acid, Microbiological (ppm)	1	1	21.35							
104.03	Riboflavin, LC (ppm)	2	2	8.523	2.669						

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104.00	Riboflavin, Fluorometric (ppm)	1	1	6.970							
104.99	Riboflavin, Miscellaneous (ppm)	1	1	10.50							
105.00	Thiamine, LC (ppm)	1	1	18.30							
105.99	Thiamine, Miscellaneous (ppm)	1	1	16.30							
106.02	Vitamin A, LC (KU / kg)	15	15	23.94	5.051	23.51	4.356	1.406	18.53%	3.153	
106.00	Vitamin A, Color (KU / kg)	1	1	25.50							
106.01	Vitamin A, UV (KU / kg)	1	1	29.35							
108.02	Vitamin D3, LC (KU / kg)	3	2	2.820	0.4384	2.820	0.4384			0.3900	
108.99	Vitamin D3, Miscellaneous (KU / kg)	2	2	2.308	0.2793						
109.02	Vitamin E, LC (IU / kg)	11	11	436.6	60.03	441.7	53.60	20.20	12.13%	32.66	
109.99	Vitamin E, Miscellaneous (IU / kg)	1	1	462.5							
111.01	Vitamin C, Ascorbic Acid, LC (ppm)	1	1	0.0310							
111.00	Vitamin C, Phosphorylated, LC (ppm)	1		4.400							
115.00	Non Protein N (NPN), Urea + Am, Urease method (%)	1	1	0.3450							
118.99	Peroxide value, Miscellaneous (meq/kg)	1	1	3.735							
120.00	Alanine, Post-col Ninhydrin Der (%)	18	18	0.6281	0.0375	0.6253	0.0274	0.0081	4.37%	0.0119	4.29%
120.05	Alanine, Pre-col AQC Der (%)	6	6	0.6075	0.0320	0.5985	0.0127	0.0065	2.12%	0.0087	4.32%
120.02	Alanine, Post-col OPA Der (%)	1	1	0.6300							
120.99	Alanine, Miscellaneous (%)	1	1	0.6750							
121.00	Arginine, Post-col Ninhydrin Der (%)	18	17	0.8516	0.0471	0.8504	0.0428	0.0130	5.03%	0.0143	4.10%
121.05	Arginine, Pre-col AQC Der (%)	6	6	0.8120	0.0966	0.8421	0.0297	0.0151	3.52%	0.0167	4.10%
121.02	Arginine, Post-col OPA Der (%)	1	1	0.8190							
121.99	Arginine, Miscellaneous (%)	1	1	1.015							
122.00	Aspartic, Post-col Ninhydrin Der (%)	18	17	1.085	0.0380	1.081	0.0303	0.0092	2.81%	0.0092	3.95%
122.05	Aspartic, Pre-col AQC Der (%)	6	6	1.054	0.0515	1.054	0.0584	0.0298	5.55%	0.0070	3.97%
122.02	Aspartic, Post-col OPA Der (%)	1	1	1.079							
122.99	Aspartic, Miscellaneous (%)	1	1	1.175							
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin Der (%)	19	18	0.2645	0.0194	0.2612	0.0137	0.0041	5.26%	0.0109	4.90%
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	5	5	0.2313	0.0785	0.2313	0.0785	0.0351	33.94%	0.0061	4.99%
124.99	Cysteine/Cystine, Miscellaneous (%)	2	2	0.2400	0.0212						
124.02	Cysteine/Cystine, PAO Post-col OPA Der (%)	1	1	0.2730							
125.00	Glutamic, Post-col Ninhydrin Der (%)	18	18	2.281	0.0862	2.281	0.0978	0.0288	4.29%	0.0355	3.53%
125.05	Glutamic, Pre-col AQC Der (%)	6	6	2.244	0.0943	2.221	0.0478	0.0244	2.15%	0.0245	3.55%
125.02	Glutamic, Post-col OPA Der (%)	1	1	2.224							
125.99	Glutamic, Miscellaneous (%)	1	1	2.555							
126.00	Glycine, Post-col Ninhydrin Der (%)	18	17	0.7616	0.0215	0.7609	0.0219	0.0066	2.87%	0.0082	4.17%
126.05	Glycine, Pre-col AQC Der (%)	6	5	0.7699	0.0197	0.7699	0.0197	0.0024	2.56%	0.0058	4.16%
126.02	Glycine, Post-col OPA Der (%)	1	1	0.7650							
126.99	Glycine, Miscellaneous (%)	1	1	0.3350							
127.00	Histidine, Post-col Ninhydrin Der (%)	18	17	0.3564	0.0403	0.3493	0.0206	0.0063	5.91%	0.0046	4.69%

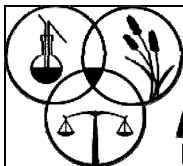
Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO ffp Robust SD	Uncertainty (U) Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
127.05	Histidine, Pre-col AQC Der (%)	6	6	0.3541	0.0225	0.3530	0.0230	0.0117	6.50%	0.0022	4.68%
127.02	Histidine, Post-col OPA Der (%)	1	1	0.3485							
127.99	Histidine, Miscellaneous (%)	1	1	0.3350							
128.00	Isoleucine, Post-col Ninhydrin Der (%)	18	17	0.4697	0.0468	0.4667	0.0456	0.0138	9.76%	0.0107	4.49%
128.05	Isoleucine, Pre-col AQC Der (%)	6	6	0.4675	0.0308	0.4675	0.0349	0.0178	7.46%	0.0047	4.48%
128.02	Isoleucine, Post-col OPA Der (%)	1	1	0.4785							
128.99	Isoleucine, Miscellaneous (%)	1	1	0.3350							
129.00	Leucine, Post-col Ninhydrin Der (%)	18	17	0.8655	0.0400	0.8658	0.0361	0.0110	4.17%	0.0113	4.09%
129.05	Leucine, Pre-col AQC Der (%)	6	6	0.8558	0.0272	0.8558	0.0309	0.0157	3.61%	0.0133	4.09%
129.02	Leucine, Post-col OPA Der (%)	1	1	0.8660							
129.99	Leucine, Miscellaneous (%)	1	1	0.8000							
130.00	L-Lysine, Post-col Ninhydrin Der (%)	20	19	0.8165	0.0395	0.8109	0.0266	0.0076	3.28%	0.0084	4.13%
130.05	L-Lysine, Pre-col AQC Der (%)	7	7	0.7789	0.0741	0.7892	0.0582	0.0275	7.37%	0.0111	4.14%
130.99	L-Lysine, Miscellaneous (%)	2	2	0.7840	0.0834						
130.02	L-Lysine, Post-col OPA Der (%)	1	1	0.8915							
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	20	20	0.2642	0.0323	0.2633	0.0268	0.0075	10.18%	0.0086	4.89%
131.05	Methionine, PAO Pre-col AQC Der (%)	8	8	0.2340	0.0355	0.2386	0.0287	0.0127	12.03%	0.0092	4.96%
131.99	Methionine, Miscellaneous (%)	2	2	0.3125	0.0460						
131.02	Methionine, PAO Post-col OPA Der (%)	1	1	0.2540							
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	18	18	0.5583	0.0643	0.5559	0.0648	0.0191	11.66%	0.0175	4.37%
132.05	Phenylalanine, Pre-col AQC Der (%)	6	6	0.5558	0.0205	0.5558	0.0232	0.0118	4.18%	0.0073	4.37%
132.02	Phenylalanine, Post-col OPA Der (%)	1	1	0.5405							
132.99	Phenylalanine, Miscellaneous (%)	1	1	0.4750							
133.00	Proline, Post-col Ninhydrin Der (%)	18	18	0.7999	0.0355	0.7962	0.0280	0.0083	3.52%	0.0210	4.14%
133.05	Proline, Pre-col AQC Der (%)	6	6	0.7905	0.0336	0.7905	0.0381	0.0194	4.82%	0.0127	4.14%
133.99	Proline, Miscellaneous (%)	1	1	0.9200							
134.00	Serine, Post-col Ninhydrin Der (%)	18	18	0.6293	0.0625	0.6201	0.0359	0.0106	5.79%	0.0174	4.30%
134.05	Serine, Pre-col AQC Der (%)	6	5	0.6006	0.0731	0.6006	0.0731	0.0330	12.18%	0.0012	4.32%
134.02	Serine, Post-col OPA Der (%)	1	1	0.5965							
134.99	Serine, Miscellaneous (%)	1	1	0.7100							
135.00	Threonine, Post-col Ninhydrin Der (%)	19	19	0.5445	0.0333	0.5425	0.0291	0.0083	5.36%	0.0161	4.39%
135.05	Threonine, Pre-col AQC Der (%)	6	6	0.5287	0.0421	0.5300	0.0446	0.0227	8.41%	0.0060	4.40%
135.02	Threonine, Post-col OPA Der (%)	1	1	0.5515							
135.99	Threonine, Miscellaneous (%)	1	1	0.4200							
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	7	7	0.2240	0.0398	0.2240	0.0452	0.0213	20.17%	0.0168	5.01%
136.03	Tryptophan, Alka-Hydrol + IS RP LC FI (%)	5	4	0.2049	0.0023	0.2049	0.0023	0.0011	1.11%	0.0010	5.08%
136.99	Tryptophan, Miscellaneous (%)	2	2	0.2325	0.1237						
136.01	Tryptophan, Alka-Hydrol Rev Phase LC UV (%)	1	1	0.2070							
136.02	Tryptophan, Alka-Hydrol Post-col OPA De (%)	1	1	0.1935							
136.05	Tryptophan, Pre-col AQC Der (%)	1	1	0.3465							

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137.00	Tyrosine, Post-col Ninhydrin Der (%)	14	14	0.4106	0.0471	0.4091	0.0500	0.0167	12.21%	0.0117	4.58%
137.05	Tyrosine, Pre-col AQC Der (%)	6	6	0.4801	0.0891	0.4701	0.0768	0.0392	16.34%	0.0102	4.48%
137.02	Tyrosine, Post-col OPA Der (%)	1	1	0.3875							
137.99	Tyrosine, Miscellaneous (%)	1	1	0.3200							
138.00	Valine, Post-col Ninhydrin Der (%)	18	18	0.6172	0.0385	0.6192	0.0303	0.0089	4.90%	0.0149	4.30%
138.05	Valine, Pre-col AQC Der (%)	6	5	0.6209	0.0275	0.6209	0.0275	0.0154	4.43%	0.0018	4.30%
138.02	Valine, Post-col OPA Der (%)	1	1	0.6355							
138.99	Valine, Miscellaneous (%)	1	1	0.5000							
139.00	Taurine, Post-col Ninhydrin Der (%)	2	2	0.1015	0.0615						
139.05	Taurine, Pre-col AQC Der (%)	1	1	0.0035							
139.99	Taurine, Miscellaneous (%)	2	1	0.0300							
139.02	Taurine, Post-col OPA Der (%)	1		0.0100							
160.10	Fructose, HPAEC PAD (%)	1	1	0.0795							
160.99	Fructose, Miscellaneous (%)	1		0.0000							
161.10	Galactose, HPAEC PAD (%)	1		0.0000							
162.10	Glucose, HPAEC PAD (%)	1	1	0.0880							
162.99	Glucose, Miscellaneous (%)	1		0.0000							
163.10	Lactose, HPAEC PAD (%)	1		0.0000							
164.10	Maltose, HPAEC PAD (%)	1	1	0.1450							
165.10	Sucrose, HPAEC PAD (%)	1	1	1.349							
165.99	Sucrose, Miscellaneous (%)	1		0.0000							
166.10	Raffinose, HPAEC PAD (%)	1	1	0.6600							
166.99	Raffinose, Miscellaneous (%)	1	1	0.6200							
167.10	Stachyose, HPAEC PAD (%)	1	1	0.1700							
167.99	Stachyose, Miscellaneous (%)	1	1	0.3400							
400.01	Water Activity, Aqualab chilled mirror (Units)	10	10	0.4220	0.0434	0.4169	0.0361	0.0143	8.66%	0.0050	
400.99	Water Activity, Miscellaneous (Units)	2	2	0.3973	0.0258						
516.53	Arsenic, Total, ICP-MS, Microwave (ppm)	4	4	0.2297	0.0454	0.2297	0.0454	0.0227	19.77%	0.0200	19.96%
516.00	Arsenic, Total, AA, Hydride (ppm)	2	2	0.1890	0.0099						
516.52	Arsenic, Total, ICP-MS, Open vessel (ppm)	1	1	0.2050							
516.43	Arsenic, Total, ICP, Microwave (ppm)	2		2.000							
518.53	Cadmium, ICP-MS, Microwave (ppm)	5	4	0.1800	0.0105	0.1800	0.0105	0.0052	5.81%	0.0068	20.71%
518.43	Cadmium, ICP, Microwave (ppm)	3	3	0.2175	0.0564	0.2175	0.0564	0.0326	25.94%	0.0030	20.13%
518.41	Cadmium, ICP, Dry ash (ppm)	2	2	0.1441	0.0405						
518.52	Cadmium, ICP-MS, Open vessel (ppm)	1	1	0.1650							
520.53	Chromium, ICP-MS, Microwave (ppm)	4	4	15.70	6.995	15.70	6.995	3.498	44.55%	0.7999	10.57%
520.43	Chromium, ICP, Microwave (ppm)	3	3	16.19	7.221	16.19	7.221	4.169	44.59%	0.1267	10.52%
520.41	Chromium, ICP, Dry ash (ppm)	2	2	10.84	2.730						
520.42	Chromium, ICP, Open vessel (ppm)	2	2	17.33	0.0255						
526.53	Lead, ICP-MS, Microwave (ppm)	4	3	0.2143	0.0117	0.2143	0.0117	0.0068	5.47%	0.0116	20.17%

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526.41	Lead, ICP, Dry ash (ppm)	2	2	0.2110	0.0558						
526.43	Lead, ICP, Microwave (ppm)	2	1	0.2155							
526.52	Lead, ICP-MS, Open vessel (ppm)	1	1	0.2150							
529.99	Mercury, Miscellaneous (ppb)	2	1	6.769							
539.53	Nickel, ICP-MS, Microwave (ppm)	3	3	7.714	0.2682	7.714	0.2682	0.1548	3.48%	1.497	11.76%
539.41	Nickel, ICP, Dry ash (ppm)	2	2	6.349	0.5769						
539.43	Nickel, ICP, Microwave (ppm)	2	2	8.358	0.8798						
702.00	Butyric Acid (4:0), Miscellaneous GC (%)	2		0.0000							
704.00	Caproic Acid (6:0) , Miscellaneous GC (%)	2	1	0.0026							
706.01	Caprylic acid (8:0), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.0004							
706.99	Caprylic acid (8:0), Miscellaneous (% (w/w))	1		0.0200							
708.01	Capric acid (10:0), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.0002							
708.99	Capric acid (10:0), Miscellaneous (% (w/w))	1		0.0200							
710.01	Lauric Acid (12:0), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.0021							
710.99	Lauric Acid (12:0), Miscellaneous (% (w/w))	2		0.0050							
714.99	Myristic Acid (14:0) , Miscellaneous (% (w/w))	4	3	0.0381	0.0536	0.0381	0.0536	0.0379	140.58%	0.0006	6.54%
714.01	Myristic Acid (14:0) , Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.0368							
716.99	Palmitic Acid (16:0), Miscellaneous (% (w/w))	4	2	0.9581	0.0291	0.9581	0.0291			0.0032	4.03%
716.01	Palmitic Acid (16:0), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	1.042							
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (% (w/w))	3	2	0.0088	0.0018	0.0088	0.0018			0.0008	8.15%
718.01	Palmitoleic Acid (9c-16:1), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.0337							
720.99	Margaric acid (17:0), Miscellaneous (% (w/w))	2	1	0.0065							
722.99	Stearic Acid (18:0), Miscellaneous (% (w/w))	4	3	0.2809	0.0133	0.2809	0.0133	0.0077	4.75%	0.0063	4.84%
722.01	Stearic Acid (18:0), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.1819							
724.99	Oleic Acid (9c-18:1), Miscellaneous (% (w/w))	4	3	1.484	0.0098	1.484	0.0098	0.0070	0.66%	0.0317	3.77%
724.01	Oleic Acid (9c-18:1), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	1.697							
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (% (w/w))	4	3	3.861	0.0168	3.861	0.0168	0.0097	0.44%	0.0975	3.26%
726.01	Linoleic Acid (9c,12c-18:2), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	5.439							
726.02	Linoleic Acid (9c,12c-18:2), Direct Methylation by Acid-Alkali Hydrolysis & GC (% (w/w))	1	1	4.115							
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellaneous (% (w/w))	4	3	0.4879	0.0272	0.4879	0.0272	0.0157	5.58%	0.0217	4.46%
728.01	alpha-Linolenic Acid (9c,12c,15c-18:3), Direct Methylation by Alkali Hydrolysis	1	1	0.5193							
730.99	Arachidic Acid (20:0), Miscellaneous (% (w/w))	4	2	0.0276	0.0035	0.0276	0.0035			0.0000	6.87%
730.01	Arachidic Acid (20:0), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.0420							
732.99	Gondoic Acid (11c-20:1), Miscellaneous (% (w/w))	3	3	0.0254	0.0057	0.0254	0.0057	0.0033	22.45%	0.0009	6.95%
732.01	Gondoic Acid (11c-20:1), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.0395							
736.01	Arachidonic Acid (5c,8c,11c,14c-20:4), Direct Methylation by Alkali Hydrolysis	1		0.0000							
736.99	Arachidonic Acid (5c,8c,11c,14c-20:4), Miscellaneous (% (w/w))	1		0.0200							
738.01	Mead Acid (11c,14c,17c-20:3), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1		0.0000							
740.01	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5), Direct Methylation by Alkali Hydrolysis	1		0.0000							
740.99	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5), Miscellaneous (% (w/w))	2		0.0000							

Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO ffp Robust SD	Uncertainty (U) Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
742.99	Behenic Acid (22:0), Miscellaneous (% (w/w))	4	3	0.0255	0.0048	0.0255	0.0048	0.0028	18.69%	0.0005	6.95%
744.01	Erucic Acid (13c-22:1), Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1	1	0.0350							
744.99	Erucic Acid (13c-22:1), Miscellaneous (% (w/w))	3	1								
746.01	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5), Direct Methylation	1		0.0000							
746.99	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5), Miscellaneous (% (w/w))	2		0.0000							
748.99	Lignoceric Acid (24:0), Miscellaneous (% (w/w))	3	3	0.0158	0.0049	0.0158	0.0049	0.0028	30.70%	0.0005	7.46%
750.01	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6), Direct Methylation	1		0.0000							
750.99	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6), Miscellaneous (% (w/w))	2		0.0000							
752.01	Nervonic Acid (24:1) isomers, Direct Methylation by Alkali Hydrolysis & GC (% (w/w))	1		0.0000							
752.99	Nervonic Acid (24:1) isomers, Miscellaneous (% (w/w))	2		0.0050							
754.02	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Direct Methylation by Acid- <i>f</i>	2	2	2.461	2.690						
754.99	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Miscellaneous (% (w/w))	4	2	0.4883	0.0449	0.4883	0.0449			0.0065	4.46%
756.99	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Miscellaneous (% (w/w))	4	2	3.860	0.0212	3.860	0.0212			0.0490	3.26%
756.01	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Direct Methylation by Alkali	1	1	4.115							
756.02	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Direct Methylation by Acid- <i>f</i>	1	1	0.6065							
758.99	Total Saturated Fatty Acids, Miscellaneous (% (w/w))	2	2	1.380	0.1552						
762.99	Total Monounsaturated Fatty Acids, Miscellaneous (% (w/w))	1	1	1.607							
764.99	Total cis Monounsaturated Fatty Acids, Miscellaneous (% (w/w))	1	1	1.665							
766.99	Total Polyunsaturated Fatty Acids, Miscellaneous (% (w/w))	1	1	4.302							
768.99	Total cis Polyunsaturated Fatty Acids, Miscellaneous (% (w/w))	1	1	4.390							
770.99	Total Fat (equivalent to NLEA), Miscellaneous (% (w/w))	1	1	7.920							
772.99	Total Fatty Acids, Miscellaneous (% (w/w))	3	3	7.334	0.2274	7.334	0.2274	0.1313	3.10%	0.1598	2.96%

Notes: Robust statistics not used if < 6 labs reporting. In this case Means and SD's may be reported based on Raw Data with obvious blunders removed. Robust Assigned Values indicated in bold font.



Animal Feed Scheme

Methods Reported: 132

Equine Feed

Method Precision Report

Labs Reporting: 151

Test Material Code # 202121

Issue Date : 02/28/2021

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 (%)	42	37	7.749	0.3870	0.2181	0.1228	0.2503	2.83%	1.59%	3.25%	2.038
001.99	Loss on Drying, Miscellaneous (%)	15	14	7.585	0.5100	0.3010	0.1242	0.3256	3.91%	1.61%	4.23%	2.623
002.01	Protein, Crude, Auto Kjeh-Foss (%)	12	12	14.08	0.2198	0.2056	0.1100	0.2332	1.46%	0.78%	1.66%	2.119
002.05	Protein, Crude, Copper, Boric Acid (%)	21	18	13.91	0.3246	0.1784	0.0697	0.1915	1.28%	0.50%	1.37%	2.748
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	105	98	14.24	0.3346	0.2531	0.1034	0.2734	1.78%	0.73%	1.92%	2.644
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	11	9	7.878	1.390	0.2026	0.0987	0.2253	2.44%	1.19%	2.71%	2.283
003.06	Fat, Crude, Pet Ether (%)	14	12	8.114	0.5151	0.1508	0.0916	0.1765	1.82%	1.10%	2.13%	1.926
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	12	11	8.177	0.3114	0.1305	0.1100	0.1706	1.58%	1.33%	2.07%	1.552
003.10	Fat, Crude, Randall, Pet Ether (%)	22	19	8.153	0.8821	0.3307	0.0661	0.3373	4.15%	0.83%	4.23%	5.103
003.13	Fat, Crude, Randall, Hexane Ext. (%)	6	6	8.140	0.2219	0.1833	0.1768	0.2546	2.25%	2.17%	3.13%	1.440
003.14	Fat, Crude, Ankom (%)	41	38	6.001	1.446	1.347	0.2600	1.372	21.95%	4.24%	22.35%	5.276
004.00	Fiber, Crude, Asbestos Free (%)	12	11	14.50	0.4946	0.2350	0.3143	0.3925	1.63%	2.19%	2.73%	1.249
004.06	Fiber, Crude, Fibertec (%)	13	13	14.41	0.8160	0.8057	0.1824	0.8261	5.59%	1.27%	5.73%	4.529
004.07	Fiber, Crude, ANKOM (%)	61	56	14.44	1.466	0.7627	0.2237	0.7948	5.22%	1.53%	5.44%	3.553
005.00	Ash, 2h @ 600°C (%)	68	62	10.40	0.1983	0.1713	0.0985	0.1976	1.65%	0.95%	1.90%	2.007
005.05	Ash, 3h @ 550°C (%)	19	19	10.60	0.1973	0.1751	0.1287	0.2173	1.65%	1.21%	2.05%	1.689
005.99	Ash, Miscellaneous (%)	8	7	10.67	0.4103	0.1967	0.1057	0.2233	1.82%	0.98%	2.07%	2.112
008.02	Fiber, Acid Detergent, Crucible (%)	13	13	18.99	0.5921	0.5685	0.2338	0.6147	2.99%	1.23%	3.24%	2.629
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	36	31	18.95	0.9638	0.8443	0.1839	0.8641	4.49%	0.98%	4.59%	4.698
008.99	Fiber, Acid Detergent, Miscellaneous (%)	7	6	22.05	8.301	1.783	0.4365	1.835	9.39%	2.30%	9.67%	4.204
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	12	10	35.69	1.663	0.8498	0.3112	0.9050	2.35%	0.86%	2.51%	2.908
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	35	32	34.79	2.228	1.117	0.3389	1.167	3.19%	0.97%	3.33%	3.443
009.99	Fiber, Neutral Detergent, Miscellaneous (%)	5	5	36.22	3.428	3.415	0.4344	3.442	9.43%	1.20%	9.50%	7.925
010.99	Moisture, Miscellaneous (%)	12	10	7.895	0.5302	0.4213	0.0881	0.4304	5.41%	1.13%	5.52%	4.887
011.01	Loss on Drying, HT, 135°C 2hr (%)	57	52	8.582	0.3994	0.2942	0.0933	0.3086	3.44%	1.09%	3.61%	3.308
012.00	Starch, Polarimetric (Ewers) (%)	8	7	15.63	0.4036	0.3963	0.1085	0.4109	2.54%	0.69%	2.63%	3.786
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	12	10	13.75	1.164	0.8018	0.1540	0.8165	5.89%	1.13%	5.99%	5.301
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	15	14	8.730	0.8514	0.5666	0.1984	0.6003	6.37%	2.23%	6.75%	3.026
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	17	16	9.384	0.6350	0.4027	0.1736	0.4386	4.24%	1.83%	4.62%	2.526
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	6	6	8.714	0.2971	0.2937	0.0632	0.3004	3.37%	0.73%	3.45%	4.752
013.13	Fat, Acid Pretreat, Ankom-Acid Hydrolysis (%)	8	8	9.470	1.294	1.207	0.6560	1.374	12.75%	6.93%	14.51%	2.095
015.41	Aluminum, ICP, Dry ash (ppm)	6	6	173.5	21.21	21.02	4.010	21.40	12.12%	2.31%	12.34%	5.336
015.43	Aluminum, ICP, Microwave (ppm)	8	7	208.9	23.69	21.66	3.750	21.98	10.59%	1.83%	10.75%	5.862
017.42	Boron, ICP, Open vessel (ppm)	5	5	8.378	2.857	2.849	0.3007	2.865	34.00%	3.59%	34.19%	9.527
017.43	Boron, ICP, Microwave (ppm)	7	5	11.52	2.476	2.424	0.7179	2.528	21.04%	6.23%	21.94%	3.521
019.00	Calcium, Ox-Mn04 Vol. (%)	6	6	1.664	0.0673	0.0647	0.0260	0.0697	3.89%	1.56%	4.19%	2.685

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
019.08	Calcium, EDTA (%)	7	6	1.605	0.0459	0.0469	0.0088	0.0478	2.91%	0.55%	2.96%	5.401
019.31	Calcium, AAS, Dry ash (%)	15	13	1.749	0.7447	0.1184	0.0605	0.1329	7.62%	3.89%	8.56%	2.198
019.41	Calcium, ICP, Dry ash (%)	25	23	1.618	0.0621	0.0605	0.0285	0.0669	3.73%	1.76%	4.12%	2.349
019.42	Calcium, ICP, Open vessel (%)	13	12	1.655	0.1270	0.1207	0.0556	0.1329	7.29%	3.36%	8.03%	2.392
019.43	Calcium, ICP, Microwave (%)	30	26	1.653	0.0796	0.0815	0.0173	0.0833	4.94%	1.05%	5.05%	4.818
019.53	Calcium, ICP-MS, Microwave (%)	6	5	1.559	0.1805	0.0608	0.0532	0.0809	3.74%	3.27%	4.97%	1.519
019.99	Calcium, Miscellaneous (%)	5	5	1.490	0.0790	0.0765	0.0276	0.0814	5.14%	1.85%	5.46%	2.947
021.41	Cobalt, ICP, Dry ash (ppm)	6	6	13.63	3.370	3.365	0.2565	3.375	24.68%	1.88%	24.76%	13.16
021.43	Cobalt, ICP, Microwave (ppm)	8	8	16.16	2.689	2.669	0.4539	2.708	16.52%	2.81%	16.75%	5.965
021.53	Cobalt, ICP-MS, Microwave (ppm)	8	7	12.58	4.949	5.256	0.4389	5.274	42.80%	3.57%	42.95%	12.02
022.31	Copper, AAS, Dry ash (ppm)	10	9	128.8	36.75	7.559	3.734	8.431	5.39%	2.66%	6.02%	2.258
022.41	Copper, ICP, Dry ash (ppm)	17	15	134.7	9.345	7.435	2.861	7.967	5.57%	2.14%	5.97%	2.784
022.42	Copper, ICP, Open vessel (ppm)	15	14	136.0	13.94	10.38	4.011	11.13	7.50%	2.90%	8.04%	2.774
022.43	Copper, ICP, Microwave (ppm)	26	26	140.4	9.600	9.056	4.504	10.11	6.45%	3.21%	7.20%	2.245
022.53	Copper, ICP-MS, Microwave (ppm)	6	6	126.5	19.66	19.29	5.372	20.02	15.25%	4.25%	15.83%	3.727
025.31	Iron, AAS, Dry ash (ppm)	12	11	705.4	146.0	68.65	18.68	71.15	9.24%	2.51%	9.58%	3.809
025.41	Iron, ICP, Dry ash (ppm)	20	20	716.0	70.83	70.42	10.73	71.24	9.84%	1.50%	9.95%	6.639
025.42	Iron, ICP, Open vessel (ppm)	12	11	616.2	190.0	189.3	22.51	190.7	30.72%	3.65%	30.94%	8.469
025.43	Iron, ICP, Microwave (ppm)	26	24	756.9	63.25	50.30	20.53	54.33	6.58%	2.69%	7.11%	2.647
025.53	Iron, ICP-MS, Microwave (ppm)	5	5	588.8	247.7	246.7	31.29	248.6	41.89%	5.31%	42.23%	7.947
027.31	Magnesium, AAS, Dry ash (%)	11	9	0.4168	0.0656	0.0256	0.0175	0.0310	5.94%	4.05%	7.19%	1.773
027.41	Magnesium, ICP, Dry ash (%)	18	17	0.4197	0.0203	0.0131	0.0071	0.0149	3.10%	1.67%	3.53%	2.107
027.42	Magnesium, ICP, Open vessel (%)	14	13	0.4133	0.0413	0.0212	0.0082	0.0228	5.01%	1.95%	5.38%	2.758
027.43	Magnesium, ICP, Microwave (%)	28	23	0.4244	0.0196	0.0161	0.0053	0.0170	3.80%	1.25%	4.00%	3.191
027.53	Magnesium, ICP-MS, Microwave (%)	6	6	0.4148	0.0671	0.0667	0.0107	0.0676	16.08%	2.59%	16.29%	6.294
028.31	Manganese, AAS, Dry ash (ppm)	12	11	292.3	67.13	68.86	4.299	69.00	23.88%	1.49%	23.93%	16.05
028.41	Manganese, ICP, Dry ash (ppm)	16	15	318.1	28.53	21.86	7.911	23.25	6.78%	2.45%	7.21%	2.939
028.42	Manganese, ICP, Open vessel (ppm)	15	14	323.9	35.66	21.31	11.62	24.28	6.44%	3.51%	7.33%	2.089
028.43	Manganese, ICP, Microwave (ppm)	27	25	335.3	16.21	12.01	9.616	15.38	3.58%	2.86%	4.58%	1.600
028.53	Manganese, ICP-MS, Microwave (ppm)	7	6	306.3	32.45		24.14			7.59%		
031.01	Phosphorus, Photometric (%)	27	25	1.052	0.0266	0.0254	0.0111	0.0277	2.41%	1.06%	2.63%	2.487
031.41	Phosphorus, ICP, Dry ash (%)	23	22	1.046	0.0507	0.0490	0.0217	0.0536	4.68%	2.07%	5.12%	2.475
031.42	Phosphorus, ICP, Open vessel (%)	14	13	1.020	0.0507	0.0190	0.0367	0.0413	1.84%	3.56%	4.01%	1.125
031.43	Phosphorus, ICP, Microwave (%)	30	27	1.071	0.0414	0.0349	0.0187	0.0396	3.26%	1.75%	3.71%	2.114
031.53	Phosphorus, ICP-MS, Microwave (%)	6	5	1.260	0.4534	0.0502	0.0333	0.0602	4.66%	3.09%	5.60%	1.811
032.31	Potassium, AAS, Dry ash (%)	9	9	1.105	0.0832	0.0818	0.0216	0.0846	7.40%	1.95%	7.66%	3.916
032.41	Potassium, ICP, Dry ash (%)	21	21	1.115	0.0398	0.0346	0.0277	0.0443	3.11%	2.49%	3.98%	1.600
032.42	Potassium, ICP, Open vessel (%)	13	12	1.114	0.0977	0.0508	0.0184	0.0540	4.46%	1.62%	4.75%	2.936
032.43	Potassium, ICP, Microwave (%)	29	27	1.129	0.0593	0.0489	0.0180	0.0520	4.29%	1.58%	4.57%	2.899
032.53	Potassium, ICP-MS, Microwave (%)	6	6	1.083	0.1627	0.1590	0.0492	0.1664	14.67%	4.54%	15.36%	3.383
032.99	Potassium, Miscellaneous (%)	5	5	1.053	0.1204	0.1195	0.0206	0.1212	11.34%	1.95%	11.51%	5.898
033.00	Salt as chloride, Sol Cl (%)	15	14	1.377	0.2048	0.0756	0.0336	0.0827	5.30%	2.36%	5.80%	2.462
033.01	Salt as chloride, Poten Cl (%)	26	22	1.431	0.2517	0.0330	0.0211	0.0391	2.29%	1.46%	2.72%	1.856
033.99	Salt, Miscellaneous (%)	11	10	1.354	0.1185	0.0368	0.0454	0.0584	2.65%	3.28%	4.21%	1.286
034.53	Selenium, ICP-MS, Microwave (ppm)	10	9	1.538	0.1552	0.1447	0.0793	0.1650	9.41%	5.16%	10.73%	2.081
035.31	Sodium, AAS, Dry ash (%)	10	10	0.5119	0.0342	0.0336	0.0087	0.0347	6.56%	1.70%	6.78%	3.982

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
035.41	Sodium, ICP, Dry ash (%)	21	20	0.5178	0.0242	0.0223	0.0136	0.0261	4.30%	2.62%	5.03%	1.923
035.42	Sodium, ICP, Open vessel (%)	12	11	0.5336	0.0611	0.0165	0.0090	0.0188	3.20%	1.75%	3.64%	2.082
035.43	Sodium, ICP, Microwave (%)	23	21	0.5200	0.0280	0.0188	0.0092	0.0209	3.59%	1.75%	3.99%	2.285
035.53	Sodium, ICP-MS, Microwave (%)	6	6	0.5008	0.0817	0.0784	0.0325	0.0849	15.66%	6.50%	16.96%	2.610
035.99	Sodium, Miscellaneous (%)	5	5	0.5954	0.4728	0.4727	0.0133	0.4728	79.38%	2.23%	79.42%	35.68
036.42	Sulfur, ICP, Open vessel (%)	15	15	0.3091	0.0321	0.0314	0.0094	0.0327	10.15%	3.04%	10.60%	3.489
036.43	Sulfur, ICP, Microwave (%)	19	17	0.3217	0.0207	0.0131	0.0065	0.0146	4.04%	2.00%	4.51%	2.253
037.31	Zinc, AAS, Dry ash (ppm)	12	10	407.6	75.69	21.92	6.103	22.75	5.10%	1.42%	5.30%	3.728
037.41	Zinc, ICP, Dry ash (ppm)	17	17	430.5	32.51	30.96	14.03	33.99	7.19%	3.26%	7.89%	2.423
037.42	Zinc, ICP, Open vessel (ppm)	14	14	447.7	38.41	36.22	18.04	40.47	8.09%	4.03%	9.04%	2.243
037.43	Zinc, ICP, Microwave (ppm)	28	25	450.6	20.46	16.58	8.672	18.71	3.70%	1.94%	4.18%	2.157
037.53	Zinc, ICP-MS, Microwave (ppm)	6	5	397.6	54.73	60.82	9.367	61.54	15.31%	2.36%	15.49%	6.569
038.43	Molybdenum, ICP, Microwave (ppm)	8	7	2.634	0.3797	0.3786	0.0416	0.3809	14.37%	1.58%	14.46%	9.153
038.53	Molybdenum, ICP-MS, Microwave (ppm)	5	5	2.660	0.4931	0.4807	0.1554	0.5052	18.08%	5.84%	19.00%	3.251
106.02	Vitamin A, LC (KU / kg)	15	14	23.94	5.051	3.261	2.216	3.943	14.18%	9.64%	17.15%	1.779
109.02	Vitamin E, LC (IU / kg)	11	10	436.6	60.03	38.05	24.81	45.43	8.45%	5.51%	10.09%	1.831
120.00	Alanine, Post-col Ninhydrin Der (%)	18	16	0.6281	0.0375	0.0241	0.0099	0.0260	3.89%	1.61%	4.21%	2.620
120.05	Alanine, Pre-col AQC Der (%)	6	5	0.6075	0.0320	0.0046	0.0074	0.0087	0.77%	1.24%	1.46%	1.177
121.00	Arginine, Post-col Ninhydrin Der (%)	18	16	0.8516	0.0471	0.0417	0.0122	0.0434	4.93%	1.44%	5.14%	3.562
121.05	Arginine, Pre-col AQC Der (%)	6	5	0.8120	0.0966	0.0112	0.0164	0.0199	1.32%	1.93%	2.34%	1.212
122.00	Aspartic, Post-col Ninhydrin Der (%)	18	15	1.085	0.0380	0.0261	0.0078	0.0272	2.42%	0.72%	2.52%	3.492
122.05	Aspartic, Pre-col AQC Der (%)	6	6	1.054	0.0515	0.0513	0.0071	0.0518	4.87%	0.67%	4.91%	7.296
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin Der (%)	19	17	0.2645	0.0194	0.0139	0.0086	0.0163	5.31%	3.28%	6.24%	1.900
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	5	5	0.2313	0.0785	0.0783	0.0071	0.0787	33.87%	3.06%	34.01%	11.12
125.00	Glutamic, Post-col Ninhydrin Der (%)	18	17	2.281	0.0862	0.0794	0.0291	0.0846	3.49%	1.28%	3.72%	2.908
125.05	Glutamic, Pre-col AQC Der (%)	6	5	2.244	0.0943	0.0219	0.0200	0.0296	0.99%	0.91%	1.34%	1.481
126.00	Glycine, Post-col Ninhydrin Der (%)	18	17	0.7616	0.0215	0.0207	0.0080	0.0222	2.72%	1.05%	2.92%	2.790
127.00	Histidine, Post-col Ninhydrin Der (%)	18	15	0.3564	0.0403	0.0198	0.0040	0.0202	5.70%	1.15%	5.81%	5.050
127.05	Histidine, Pre-col AQC Der (%)	6	5	0.3541	0.0225	0.0250	0.0013	0.0250	7.03%	0.36%	7.04%	19.78
128.00	Isoleucine, Post-col Ninhydrin Der (%)	18	15	0.4697	0.0468	0.0352	0.0077	0.0361	7.68%	1.68%	7.86%	4.669
128.05	Isoleucine, Pre-col AQC Der (%)	6	6	0.4675	0.0308	0.0306	0.0047	0.0309	6.54%	1.01%	6.62%	6.523
129.00	Leucine, Post-col Ninhydrin Der (%)	18	16	0.8655	0.0400	0.0395	0.0080	0.0403	4.55%	0.92%	4.64%	5.050
129.05	Leucine, Pre-col AQC Der (%)	6	5	0.8558	0.0272	0.0199	0.0078	0.0214	2.30%	0.91%	2.47%	2.730
130.00	L-Lysine, Post-col Ninhydrin Der (%)	20	17	0.8165	0.0395	0.0219	0.0067	0.0229	2.70%	0.83%	2.82%	3.417
130.05	L-Lysine, Pre-col AQC Der (%)	7	6	0.7789	0.0741	0.0368	0.0070	0.0375	4.58%	0.87%	4.66%	5.387
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	20	19	0.2642	0.0323	0.0260	0.0082	0.0273	10.02%	3.14%	10.50%	3.344
131.05	Methionine, PAO Pre-col AQC Der (%)	8	7	0.2340	0.0355	0.0179	0.0121	0.0216	7.32%	4.94%	8.83%	1.788
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	18	17	0.5583	0.0643	0.0656	0.0138	0.0670	11.75%	2.48%	12.01%	4.842
132.05	Phenylalanine, Pre-col AQC Der (%)	6	6	0.5558	0.0205	0.0200	0.0064	0.0210	3.59%	1.16%	3.77%	3.261
133.00	Proline, Post-col Ninhydrin Der (%)	18	17	0.7999	0.0355	0.0252	0.0154	0.0295	3.17%	1.94%	3.71%	1.912
133.05	Proline, Pre-col AQC Der (%)	6	6	0.7905	0.0336	0.0324	0.0125	0.0348	4.10%	1.59%	4.40%	2.769
134.00	Serine, Post-col Ninhydrin Der (%)	18	17	0.6293	0.0625	0.0455	0.0171	0.0486	7.35%	2.76%	7.85%	2.845
135.00	Threonine, Post-col Ninhydrin Der (%)	19	18	0.5445	0.0333	0.0232	0.0145	0.0274	4.31%	2.69%	5.08%	1.885
135.05	Threonine, Pre-col AQC Der (%)	6	6	0.5287	0.0421	0.0419	0.0067	0.0424	7.92%	1.26%	8.02%	6.343
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	7	6	0.2240	0.0398	0.0350	0.0118	0.0370	16.26%	5.46%	17.15%	3.140
137.00	Tyrosine, Post-col Ninhydrin Der (%)	14	14	0.4106	0.0471	0.0463	0.0120	0.0478	11.27%	2.92%	11.65%	3.987

Test Material Code # 202121

Issue Date : 02/28/2021

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
137.05	Tyrosine, Pre-col AQC Der (%)	6	5	0.4801	0.0891	0.0862	0.0051	0.0864	17.31%	1.03%	17.34%	16.81
138.00	Valine, Post-col Ninhydrin Der (%)	18	17	0.6172	0.0385	0.0293	0.0133	0.0321	4.70%	2.14%	5.16%	2.414
138.05	Valine, Pre-col AQC Der (%)	6	5	0.6209	0.0275	0.0275	0.0021	0.0276	4.43%	0.34%	4.44%	12.99
400.01	Water Activity, Aqualab chilled mirror (Units)	10	9	0.4220	0.0434	0.0269	0.0044	0.0272	6.54%	1.07%	6.63%	6.211

Notes: Precision Calculations provided for methods with 5 or more labs contributing to calculations.