



AAFCO
Association of American Feed Control Officials



Animal Feed Scheme

Goat Feed, Residues

Test Material Code # 202530

Method Summary Report

(Precision Report Follows)

Labs Reporting: 158

Methods Reported: 377

Issue Date : 11/30/2025

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 (Rob R-bar)	Thompson Horwitz %RSD
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	38	37	8.341	0.2679	8.371	0.1998	0.0411	2.39%	0.1097	2.91%
001.99	Loss on Drying, Miscellaneous (%)	18	17	8.213	0.5247	8.255	0.4649	0.1409	5.63%	0.0685	2.91%
001.00	Loss on Drying, Vac 95°C 5 hr (%)	3	3	8.384	1.046	8.384	1.046	0.6041	12.48%	0.1136	2.90%
001.03	Loss on Drying, Low temp. methods (%)	2	2	8.573	0.0884						
001.05	Loss on Drying, LECO (%)	1	1	8.293							
001.08	Loss on Drying, 102°C 16 hr, in meat (%)	1	1	8.725							
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	107	104	18.37	0.4945	18.40	0.3100	0.0380	1.68%	0.1837	2.33%
002.01	Protein, Crude, Auto Kjel-Foss (%)	15	15	18.17	0.1764	18.17	0.2001	0.0646	1.10%	0.1173	2.35%
002.05	Protein, Crude, Copper, Boric Acid (%)	15	15	18.08	0.3353	18.09	0.3503	0.1131	1.94%	0.1421	2.35%
002.11	Protein, Crude, NIR (%)	7	7	18.00	1.542	18.31	0.9420	0.4450	5.14%	0.2120	2.34%
002.08	Protein, Crude, Cu/Ti (%)	2	2	18.09	0.1532						
002.00	Protein, Crude, Crude (%)	1	1	17.34							
002.02	Protein, Crude, Semiauto Autoanalyzer (%)	1	1	18.26							
002.04	Protein, Crude, Copper Catalyst (%)	1	1	17.07							
003.14	Fat, Crude, Ankom (%)	55	54	3.622	0.2787	3.606	0.2384	0.0405	6.61%	0.1246	3.30%
003.10	Fat, Crude, Randall, Pet Ether (%)	27	26	3.416	0.2764	3.429	0.2415	0.0592	7.04%	0.1433	3.32%
003.06	Fat, Crude, Pet Ether (%)	13	12	3.600	0.2901	3.587	0.3019	0.1090	8.42%	0.1028	3.30%
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	8	8	3.669	0.6436	3.663	0.5641	0.2493	15.40%	0.0606	3.29%
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	8	8	3.640	0.1306	3.649	0.1256	0.0555	3.44%	0.0706	3.29%
003.11	Fat, Crude, NIR (%)	5	5	3.834	0.4470	3.834	0.4470	0.1999	11.66%	0.0788	3.27%
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirect (%)	3	3	3.870	0.1733	3.870	0.1733	0.1000	4.48%	0.1658	3.26%
003.12	Fat, Crude, Hexane Ext (%)	4	3	3.747	0.2021	3.747	0.2021	0.1167	5.39%	0.0400	3.28%
003.13	Fat, Crude, Randall, Hexane Ext. (%)	3	3	5.407	3.638	5.407	3.638	2.100	67.28%	0.0668	3.10%
003.99	Fat, Crude, Miscellaneous (%)	3	3	3.423	0.6298	3.423	0.6298	0.4453	18.40%	0.6733	3.32%
004.07	Fiber, Crude, ANKOM (%)	74	73	13.00	0.9330	12.93	0.7289	0.1066	5.63%	0.2192	2.72%
004.06	Fiber, Crude, Fibertec (%)	16	15	12.99	0.8777	13.03	0.8955	0.2890	6.88%	0.2602	2.72%
004.00	Fiber, Crude, Asbestos Free (%)	6	6	12.83	0.5645	12.83	0.6402	0.3267	4.99%	0.3117	2.72%
004.11	Fiber, Crude, NIR (%)	6	6	10.49	2.750	10.12	2.205	1.125	21.78%	0.4880	2.82%
004.03	Fiber, Crude, Fritted Glass (%)	3	3	14.27	1.969	14.27	1.969	1.137	13.79%	0.2228	2.65%

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004.99	Fiber, Crude, Miscellaneous (%)	1	1	13.66							
005.00	Ash, 2h @ 600°C (%)	87	85	8.385	0.2706	8.379	0.2420	0.0328	2.89%	0.1201	2.90%
005.05	Ash, 3h @ 550°C (%)	17	17	8.579	0.3190	8.589	0.2710	0.0822	3.16%	0.0947	2.89%
005.99	Ash, Miscellaneous (%)	8	8	8.682	0.2992	8.682	0.3393	0.1500	3.91%	0.1374	2.89%
005.11	Ash, NIR (%)	4	4	7.389	0.6189	7.389	0.6189	0.3094	8.38%	0.2425	2.96%
005.02	Ash, LECO (%)	1	1	8.883							
005.03	Ash, Microwave furnace (%)	1	1	8.050							
006.00	Total Sugars, As sucrose (%)	2	2	5.458	0.0743						
006.99	Total Sugars, Miscellaneous (%)	2	2	5.999	1.059						
006.03	Total Sugars, Invert w/o Invrns (%)	1	1	4.395							
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	45	44	17.89	1.165	17.94	1.214	0.2288	6.77%	0.3057	2.36%
008.02	Fiber, Acid Detergent, Crucible (%)	11	11	17.63	1.934	18.05	0.8645	0.3258	4.79%	0.4058	2.35%
008.99	Fiber, Acid Detergent, Miscellaneous (%)	2	2	17.97	0.3818						
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	42	41	34.98	1.041	34.98	1.016	0.1983	2.90%	0.3471	1.69%
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	11	11	36.01	1.595	35.96	1.699	0.6403	4.72%	0.3750	1.67%
010.99	Moisture, Miscellaneous (%)	15	14	8.553	0.5823	8.457	0.4021	0.1343	4.75%	0.0833	2.90%
010.11	Moisture, NIR (%)	6	6	9.183	0.8625	9.111	0.8055	0.4111	8.84%	0.3050	2.87%
010.03	Moisture, Karl-Fischer (%)	2	2	8.895	0.7708						
011.01	Loss on Drying, HT, 135°C 2hr (%)	61	59	9.336	0.3949	9.363	0.3321	0.0540	3.55%	0.1076	2.86%
011.99	Loss on Drying, HT, High Temp. Methods Miscellaneous (%)	5	4	8.559	0.2838	8.559	0.2838	0.1419	3.32%	0.1367	2.90%
011.02	Loss on Drying, HT, 130°C for 2 hours (%)	2	2	9.143	0.4561						
012.00	Starch, Polarimetric (Ewers) (%)	14	14	16.26	0.2694	16.23	0.2409	0.0805	1.48%	0.1734	2.48%
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	10	10	14.49	1.024	14.48	0.9731	0.3847	6.72%	0.7173	2.63%
012.04	Starch, Enzymatic-Enzyme Membrane Technology (YSI) (%)	9	8	14.58	1.268	14.58	1.438	0.6353	9.86%	0.3917	2.62%
012.03	Starch, Enzymatic-Colorimetric Method, Miscellaneous (%)	3	3	14.51	0.5583	14.51	0.5583	0.3223	3.85%	0.1743	2.62%
012.99	Starch, Miscellaneous (%)	2	2	14.93	0.3463						
012.11	Starch, NIR (%)	1	1	28.02							
012.20	Starch, Dietary, Enzymatic-Colorimetric (%)	1	1	14.03							
013.00	Fat, Pretreat, Acid hydrolysis (%)	15	15	4.634	0.6611	4.730	0.4519	0.1458	9.55%	0.2271	3.17%
013.02	Fat, Pretreat, Mojonniere, Bak Ext, Acid hydrolysis (%)	14	14	5.131	0.5716	5.131	0.6384	0.2133	12.44%	0.2892	3.13%
013.13	Fat, Pretreat, Ankom- Acid Hydrolysis (%)	12	12	4.689	0.5741	4.630	0.4139	0.1493	8.94%	0.3154	3.18%
013.10	Fat, Pretreat, Soxtec-Acid Hydrolysis (%)	6	6	4.343	0.5551	4.384	0.5301	0.2705	12.09%	0.1992	3.20%
013.08	Fat, Pretreat, Roese-Gottlieb Modified, Alkaline Hydrolysis (%)	1	1	1.735							
013.99	Fat, Pretreat, Miscellaneous (%)	1	1	4.005							
014.01	Fiber, Total Dietary, Enz-Grav (%)	2	2	37.86	0.9394						
014.99	Fiber, Total Dietary, Miscellaneous (%)	2	2	40.61	0.5551						
015.43	Aluminum, ICP, Microwave (ppm)	7	6	63.10	15.91	63.11	18.01	9.189	28.53%	2.609	8.57%
015.41	Aluminum, ICP, Dry ash (ppm)	4	4	60.86	5.862	60.86	5.862	2.931	9.63%	5.019	8.62%
015.42	Aluminum, ICP, Open vessel (ppm)	2	2	30.93	7.672						
015.53	Aluminum, ICP-MS, Microwave (ppm)	2	2	72.70	0.8445						

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015.99	Aluminum, Miscellaneous (ppm)	1	1	46.75							
017.43	Boron, ICP, Microwave (ppm)	6	6	6.637	0.7715	6.637	0.8748	0.4464	13.18%	0.3332	12.03%
017.41	Boron, ICP, Dry ash (ppm)	5	5	7.449	0.7011	7.449	0.7011	0.3135	9.41%	0.2851	11.82%
017.42	Boron, ICP, Open vessel (ppm)	4	3	7.167	0.1450	7.167	0.1450	0.1026	2.02%	0.4160	11.89%
017.53	Boron, ICP-MS, Microwave (ppm)	2	2	7.714	0.6590						
017.99	Boron, Miscellaneous (ppm)	1	1	7.385							
019.43	Calcium, ICP, Microwave (%)	31	30	1.258	0.0941	1.254	0.0933	0.0213	7.44%	0.0369	3.87%
019.41	Calcium, ICP, Dry ash (%)	22	22	1.248	0.0776	1.244	0.0758	0.0202	6.09%	0.0357	3.87%
019.42	Calcium, ICP, Open vessel (%)	22	21	1.281	0.0549	1.281	0.0563	0.0154	4.39%	0.0360	3.85%
019.31	Calcium, AAS, Dry ash (%)	13	12	1.240	0.1281	1.263	0.0761	0.0275	6.03%	0.0393	3.86%
019.08	Calcium, EDTA (%)	9	9	1.348	0.0803	1.344	0.0831	0.0346	6.18%	0.0350	3.83%
019.99	Calcium, Miscellaneous (%)	6	6	1.258	0.5782	1.232	0.5937	0.3030	48.18%	0.0842	3.88%
019.00	Calcium, Ox-Mn04 Vol. (%)	3	3	1.216	0.0682	1.216	0.0682	0.0394	5.61%	0.0597	3.88%
019.44	Calcium, ICP, Dry ash (%)	3	3	1.277	0.0306	1.277	0.0306	0.0177	2.40%	0.0443	3.86%
019.53	Calcium, ICP-MS, Microwave (%)	3	3	1.244	0.1466	1.244	0.1466	0.0846	11.78%	0.0599	3.87%
019.33	Calcium, AAS, Microwave (%)	2	2	1.303	0.2510						
019.02	Calcium, Hach Method (%)	1	1	1.475							
019.09	Calcium, Ion-selective electrode (%)	1	1	1.033							
019.32	Calcium, AAS, Open vessel (%)	1	1	1.395							
019.52	Calcium, ICP-MS, Open vessel (%)	1	1	1.448							
021.43	Cobalt, ICP, Microwave (ppm)	11	9	1.300	0.1549	1.309	0.1528	0.0637	11.67%	0.0380	15.36%
021.42	Cobalt, ICP, Open vessel (ppm)	4	4	0.9824	0.0998	0.9824	0.0998	0.0499	10.16%	0.2044	16.04%
021.53	Cobalt, ICP-MS, Microwave (ppm)	4	4	1.334	0.1248	1.334	0.1248	0.0624	9.35%	0.1582	15.32%
021.41	Cobalt, ICP, Dry ash (ppm)	3	3	1.039	0.3655	1.039	0.3655	0.2110	35.17%	0.1304	15.90%
021.52	Cobalt, ICP-MS, Open vessel (ppm)	2	2	0.8994	0.0557						
021.31	Cobalt, AAS, Dry ash (ppm)	1	1	0.8070							
021.99	Cobalt, Miscellaneous (ppm)	1	1	1.275							
022.43	Copper, ICP, Microwave (ppm)	27	27	32.24	8.829	29.92	3.072	0.7390	10.27%	3.037	9.59%
022.42	Copper, ICP, Open vessel (ppm)	23	22	28.42	1.787	28.34	1.814	0.4835	6.40%	1.376	9.67%
022.41	Copper, ICP, Dry ash (ppm)	15	15	20.33	5.748	20.33	6.519	2.104	32.06%	1.309	10.17%
022.31	Copper, AAS, Dry ash (ppm)	9	9	21.61	7.998	21.61	9.070	3.779	41.98%	0.9167	10.07%
022.99	Copper, Miscellaneous (ppm)	4	4	28.24	2.058	28.24	2.058	1.029	7.28%	2.300	9.68%
022.44	Copper, ICP, Dry ash (ppm)	3	3	24.50	4.006	24.50	4.006	2.313	16.35%	2.157	9.88%
022.53	Copper, ICP-MS, Microwave (ppm)	3	3	29.41	2.929	29.41	2.929	1.691	9.96%	0.7510	9.62%
022.32	Copper, AAS, Open vessel (ppm)	1	1	30.55							
022.33	Copper, AAS, Microwave (ppm)	1	1	28.44							
022.52	Copper, ICP-MS, Open vessel (ppm)	1	1	29.41							
024.52	Iodine, ICP-MS, Open vessel (ppm)	1	1	0.8530							
025.43	Iron, ICP, Microwave (ppm)	27	27	250.3	18.24	249.5	17.23	4.146	6.91%	8.584	6.97%
025.42	Iron, ICP, Open vessel (ppm)	21	21	227.7	23.94	227.4	23.16	6.318	10.19%	9.646	7.07%

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025.41	Iron, ICP, Dry ash (ppm)	19	19	232.8	20.98	235.1	18.36	5.266	7.81%	11.08	7.03%
025.31	Iron, AAS, Dry ash (ppm)	9	9	227.1	36.52	227.1	41.41	17.25	18.24%	9.801	7.07%
025.99	Iron, Miscellaneous (ppm)	4	4	235.4	24.19	235.4	24.19	12.10	10.28%	12.27	7.03%
025.53	Iron, ICP-MS, Microwave (ppm)	3	3	246.4	24.52	246.4	24.52	14.16	9.95%	15.88	6.98%
025.33	Iron, AAS, Microwave (ppm)	1	1	247.9							
027.43	Magnesium, ICP, Microwave (%)	27	26	0.3793	0.0637	0.3716	0.0181	0.0044	4.88%	0.0101	4.64%
027.42	Magnesium, ICP, Open vessel (%)	23	21	0.3733	0.0209	0.3716	0.0169	0.0046	4.55%	0.0092	4.64%
027.41	Magnesium, ICP, Dry ash (%)	16	15	0.3656	0.0147	0.3656	0.0166	0.0054	4.55%	0.0112	4.65%
027.31	Magnesium, AAS, Dry ash (%)	8	8	0.3591	0.0309	0.3638	0.0097	0.0043	2.66%	0.0079	4.66%
027.99	Magnesium, Miscellaneous (%)	4	4	0.3425	0.0536	0.3425	0.0536	0.0268	15.66%	0.0100	4.70%
027.44	Magnesium, ICP, Dry ash (%)	3	3	0.3739	0.0140	0.3739	0.0140	0.0081	3.75%	0.0122	4.64%
027.53	Magnesium, ICP-MS, Microwave (%)	3	3	0.3746	0.0522	0.3746	0.0522	0.0301	13.94%	0.0262	4.64%
027.32	Magnesium, AAS, Open vessel (%)	1	1	0.3350							
027.33	Magnesium, AAS, Microwave (%)	1	1	0.3700							
027.52	Magnesium, ICP-MS, Open vessel (%)	1	1	0.3781							
028.43	Manganese, ICP, Microwave (ppm)	26	25	138.7	8.397	137.7	5.329	1.332	3.87%	3.925	7.62%
028.42	Manganese, ICP, Open vessel (ppm)	23	22	136.6	8.453	136.4	8.800	2.345	6.45%	3.468	7.63%
028.41	Manganese, ICP, Dry ash (ppm)	15	14	124.7	5.939	124.7	6.699	2.238	5.37%	2.824	7.74%
028.31	Manganese, AAS, Dry ash (ppm)	9	9	125.5	9.376	126.7	7.698	3.208	6.08%	3.760	7.72%
028.99	Manganese, Miscellaneous (ppm)	4	4	139.7	9.295	139.7	9.295	4.648	6.65%	4.083	7.61%
028.44	Manganese, ICP, Dry ash (ppm)	3	3	120.9	19.15	120.9	19.15	11.06	15.84%	2.167	7.77%
028.53	Manganese, ICP-MS, Microwave (ppm)	3	3	140.8	17.19	140.8	17.19	9.925	12.21%	13.11	7.60%
028.32	Manganese, AAS, Open vessel (ppm)	1	1	146.5							
028.33	Manganese, AAS, Microwave (ppm)	1	1	132.6							
028.34	Manganese, AAS, Dry ash (ppm)	1	1	129.3							
028.52	Manganese, ICP-MS, Open vessel (ppm)	1	1	139.8							
030.01	Nitrate, Ion-selective electrode (%)	1	1	0.0500							
031.43	Phosphorus, ICP, Microwave (%)	31	30	0.7222	0.0550	0.7215	0.0342	0.0078	4.75%	0.0141	4.20%
031.42	Phosphorus, ICP, Open vessel (%)	23	22	0.7319	0.0529	0.7288	0.0313	0.0083	4.29%	0.0173	4.19%
031.01	Phosphorus, Photometric (%)	21	21	0.7037	0.0738	0.7145	0.0345	0.0094	4.83%	0.0149	4.21%
031.41	Phosphorus, ICP, Dry ash (%)	21	20	0.7124	0.0309	0.7122	0.0295	0.0082	4.14%	0.0129	4.21%
031.99	Phosphorus, Miscellaneous (%)	6	6	0.6817	0.0495	0.6817	0.0561	0.0286	8.23%	0.0267	4.24%
031.44	Phosphorus, ICP, Dry ash (%)	4	3	0.7412	0.0754	0.7412	0.0754	0.0435	10.17%	0.0031	4.18%
031.53	Phosphorus, ICP-MS, Microwave (%)	3	3	0.7202	0.0743	0.7202	0.0743	0.0429	10.32%	0.0737	4.20%
031.03	Phosphorus, Autoanalyzer (%)	2	2	0.6992	0.0060						
031.00	Phosphorus, Vol (%)	1	1	0.5900							
031.06	Phosphorus, Hach Method (%)	1	1	0.7400							
031.52	Phosphorus, ICP-MS, Open vessel (%)	1	1	0.7017							
032.43	Potassium, ICP, Microwave (%)	29	28	1.108	0.1527	1.077	0.0613	0.0145	5.69%	0.0193	3.96%
032.42	Potassium, ICP, Open vessel (%)	22	21	1.087	0.0663	1.079	0.0465	0.0127	4.31%	0.0242	3.95%

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032.41	Potassium, ICP, Dry ash (%)	17	17	1.027	0.0529	1.025	0.0576	0.0175	5.62%	0.0177	3.98%
032.31	Potassium, AAS, Dry ash (%)	7	6	0.9793	0.1747	0.9793	0.1981	0.1011	20.23%	0.0094	4.01%
032.99	Potassium, Miscellaneous (%)	4	4	1.053	0.0257	1.053	0.0257	0.0129	2.44%	0.0230	3.97%
032.44	Potassium, ICP, Dry ash (%)	3	3	1.085	0.0355	1.085	0.0355	0.0205	3.27%	0.0380	3.95%
032.53	Potassium, ICP-MS, Microwave (%)	3	3	1.077	0.1668	1.077	0.1668	0.0963	15.49%	0.0543	3.96%
032.52	Potassium, ICP-MS, Open vessel (%)	2	2	1.091	0.0122						
032.02	Potassium, Flame Emission (%)	1	1	1.013							
032.32	Potassium, AAS, Open vessel (%)	1	1	1.010							
032.33	Potassium, AAS, Microwave (%)	1	1	0.9850							
033.01	Salt as chloride, Poten Cl (%)	23	22	1.421	0.0514	1.423	0.0264	0.0070	1.85%	0.0207	3.79%
033.00	Salt as chloride, Sol Cl (%)	14	13	1.302	0.1399	1.303	0.1564	0.0542	12.00%	0.0321	3.84%
033.99	Salt, Miscellaneous (%)	9	9	1.193	0.2674	1.193	0.3032	0.1263	25.41%	0.0441	3.89%
033.03	Salt as chloride, Quantab (%)	4	3	1.150	0.0265	1.150	0.0265	0.0187	2.30%		3.92%
033.05	Salt as chloride, Ion Sel Electrode (%)	1	1	1.255							
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	6	6	0.6740	0.1135	0.6740	0.1287	0.0657	19.10%	0.0753	16.98%
034.52	Selenium, Total (Se), ICP-MS, Open vessel (ppm)	4	4	0.6473	0.0533	0.6473	0.0533	0.0267	8.24%	0.0379	17.08%
034.04	Selenium, Total (Se), AA, Hydride (ppm)	3	3	0.8125	0.1847	0.8125	0.1847	0.1067	22.74%	0.1909	16.50%
034.43	Selenium, Total (Se), ICP, Microwave (ppm)	5	3	0.6065	0.0692	0.6065	0.0692	0.0399	11.40%	0.0117	17.25%
034.41	Selenium, Total (Se), ICP, Dry ash (ppm)	2	2	0.3484	0.4867						
034.01	Selenium, Total (Se), Fluor (ppm)	1	1	0.6820							
034.42	Selenium, Total (Se), ICP, Open vessel (ppm)	1	1	1.140							
034.99	Selenium, Total (Se), Miscellaneous (ppm)	2	1	1.180							
035.43	Sodium, ICP, Microwave (%)	26	25	0.3597	0.0326	0.3574	0.0232	0.0058	6.50%	0.0092	4.67%
035.41	Sodium, ICP, Dry ash (%)	21	21	0.3435	0.0194	0.3435	0.0219	0.0060	6.37%	0.0122	4.70%
035.42	Sodium, ICP, Open vessel (%)	20	20	0.3560	0.0196	0.3552	0.0204	0.0057	5.74%	0.0143	4.67%
035.31	Sodium, AAS, Dry ash (%)	8	8	0.3300	0.0633	0.3379	0.0519	0.0230	15.37%	0.0166	4.71%
035.99	Sodium, Miscellaneous (%)	4	4	0.3738	0.0517	0.3738	0.0517	0.0259	13.83%	0.0125	4.64%
035.53	Sodium, ICP-MS, Microwave (%)	3	3	0.3553	0.0311	0.3553	0.0311	0.0220	8.76%	0.0344	4.67%
035.05	Sodium, Flame Emission (%)	2	2	0.3003	0.0286						
035.33	Sodium, AAS, Microwave (%)	2	2	0.3555	0.0219						
035.02	Sodium, Em Spect (%)	1	1	0.3600							
035.32	Sodium, AAS, Open vessel (%)	1	1	0.3250							
035.52	Sodium, ICP-MS, Open vessel (%)	1	1	0.3583							
036.42	Sulfur, ICP, Open vessel (%)	19	19	0.3283	0.0189	0.3271	0.0159	0.0045	4.85%	0.0142	4.73%
036.43	Sulfur, ICP, Microwave (%)	16	15	0.3421	0.0310	0.3393	0.0279	0.0090	8.24%	0.0073	4.71%
036.04	Sulfur, LECO (%)	4	3	0.3402	0.0131	0.3402	0.0131	0.0093	3.86%	0.0055	4.70%
036.53	Sulfur, ICP-MS, Microwave (%)	2	2	0.2950	0.0262						
036.99	Sulfur, Miscellaneous (%)	2	2	0.3075	0.0248						
036.52	Sulfur, ICP-MS, Open vessel (%)	1	1	0.3544							
037.43	Zinc, ICP, Microwave (ppm)	26	25	138.7	20.82	135.9	9.253	2.313	6.81%	4.474	7.64%

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037.42	Zinc, ICP, Open vessel (ppm)	22	21	130.4	7.918	130.4	8.618	2.351	6.61%	5.915	7.69%
037.41	Zinc, ICP, Dry ash (ppm)	16	16	117.7	9.616	117.7	10.84	3.387	9.21%	4.320	7.80%
037.31	Zinc, AAS, Dry ash (ppm)	8	8	116.0	20.64	119.9	13.03	5.760	10.88%	1.887	7.78%
037.44	Zinc, ICP, Dry ash (ppm)	4	4	114.7	18.81	114.7	18.81	9.405	16.40%	7.335	7.84%
037.99	Zinc, Miscellaneous (ppm)	4	4	127.2	12.58	127.2	12.58	6.291	9.90%	1.250	7.71%
037.53	Zinc, ICP-MS, Microwave (ppm)	3	3	134.5	8.727	134.5	8.727	5.038	6.49%	12.96	7.65%
037.32	Zinc, AAS, Open vessel (ppm)	1	1	141.0							
037.33	Zinc, AAS, Microwave (ppm)	1	1	132.0							
037.52	Zinc, ICP-MS, Open vessel (ppm)	1	1	134.1							
038.42	Molybdenum, ICP, Open vessel (ppm)	7	7	2.157	0.3781	2.157	0.4288	0.2026	19.87%	0.2840	14.25%
038.43	Molybdenum, ICP, Microwave (ppm)	7	7	2.120	0.6891	2.065	0.6500	0.3071	31.48%	0.2512	14.34%
038.53	Molybdenum, ICP-MS, Microwave (ppm)	5	5	2.216	0.1944	2.216	0.1944	0.0869	8.77%	0.1605	14.19%
038.41	Molybdenum, ICP, Dry ash (ppm)	2	2	1.956	0.0298						
038.52	Molybdenum, ICP-MS, Open vessel (ppm)	2	2	1.644	0.0938						
038.99	Molybdenum, Miscellaneous (ppm)	1	1	2.280							
040.43	Barium, ICP, Microwave (ppm)	1	1	16.25							
040.52	Barium, ICP-MS, Open vessel (ppm)	1	1	13.93							
040.53	Barium, ICP-MS, Microwave (ppm)	1	1	16.98							
041.53	Vanadium, ICP-MS, Microwave (ppm)	2	2	0.3136	0.0503						
042.00	Chloride, Titrimetric (%)	8	8	0.8852	0.0895	0.8802	0.0897	0.0397	10.20%	0.0248	4.08%
042.99	Chloride, Miscellaneous (%)	2	2	0.8500	0.2051						
101.99	Choline Chloride, Miscellaneous (ppm)	1	1	1,370							
102.01	Niacin, Microbiological (ppm)	1	1	86.35							
102.02	Niacin, LC (ppm)	1	1	15.10							
103.01	Pantothenic Acid, Microbiological (ppm)	1	1	10.75							
104.03	Riboflavin, LC (ppm)	2	2	0.8818	0.1085						
104.00	Riboflavin, Fluorometric (ppm)	1	1	2.225							
105.00	Thiamine, LC (ppm)	2	2	3.835	0.1344						
105.01	Thiamine, Fluorometer (ppm)	1	1	6.430							
106.02	Vitamin A, LC (KU / kg)	11	11	5.515	0.9086	5.412	0.7615	0.2870	14.07%	0.9511	
106.99	Vitamin A, Miscellaneous (KU / kg)	2	2	13.20	7.029						
106.00	Vitamin A, Color (KU / kg)	1	1	4.705							
106.01	Vitamin A, UV (KU / kg)	1	1	5.970							
107.00	Vitamin B12, Microbiological (ppb)	1	1	5.060							
107.99	Vitamin B12, Miscellaneous (ppb)	1		20.00							
108.02	Vitamin D3, LC (KU / kg)	6	5	2.804	0.6724	2.804	0.6724	0.3759	23.98%	0.1407	
108.99	Vitamin D3, Miscellaneous (KU / kg)	2	1	2.360							
109.02	Vitamin E, LC (IU / kg)	13	12	59.34	18.37	57.68	17.05	6.154	29.57%	2.534	
109.99	Vitamin E, Miscellaneous (IU / kg)	1	1	46.50							
111.00	Vitamin C, Phosphorylated, LC (ppm)	1		4.400							

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112.01	Pyridoxine, LC (µg / g)	2	2	5.993	0.2581						
113.01	Folic Acid, Micro (ppm)	1	1	0.9105							
113.02	Folic acid, LC (ppm)	1		0.2500							
114.99	Biotin, Miscellaneous (ppm)	1	1	0.2170							
115.00	Non Protein N (NPN), Urea + Am, Urease method (%)	1	1	0.2270							
115.99	Non Protein N (NPN), Miscellaneous (%)	1	1	0.6845							
120.00	Alanine, Post-col Ninhydrin Der (%)	15	15	0.8744	0.0164	0.8745	0.0186	0.0060	2.12%	0.0142	4.08%
120.05	Alanine, Pre-col AQC Der (%)	8	8	0.8074	0.1898	0.8548	0.0799	0.0353	9.35%	0.0170	4.10%
120.02	Alanine, Post-col OPA Der (%)	1	1	0.8725							
121.00	Arginine, Post-col Ninhydrin Der (%)	15	14	1.139	0.0296	1.138	0.0284	0.0095	2.49%	0.0082	3.92%
121.05	Arginine, Pre-col AQC Der (%)	8	8	1.036	0.1863	1.076	0.1031	0.0455	9.58%	0.0341	3.96%
121.02	Arginine, Post-col OPA Der (%)	1	1	1.056							
122.00	Aspartic, Post-col Ninhydrin Der (%)	15	14	1.383	0.0289	1.383	0.0325	0.0109	2.35%	0.0139	3.81%
122.05	Aspartic, Pre-col AQC Der (%)	8	8	1.280	0.3246	1.365	0.1218	0.0538	8.92%	0.0142	3.82%
122.02	Aspartic, Post-col OPA Der (%)	1	1	1.345							
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	14	14	0.3095	0.0138	0.3090	0.0131	0.0044	4.23%	0.0076	4.77%
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	8	8	0.2911	0.0360	0.2911	0.0408	0.0180	14.02%	0.0168	4.82%
124.02	Cysteine/Cystine, PAO Post-col OPA Der (%)	2	2	0.3090	0.0269						
124.99	Cysteine/Cystine, Miscellaneous (%)	1	1	0.3138							
125.00	Glutamic, Post-col Ninhydrin Der (%)	15	14	3.115	0.0701	3.114	0.0779	0.0260	2.50%	0.0217	3.37%
125.05	Glutamic, Pre-col AQC Der (%)	8	7	3.116	0.1460	3.116	0.1656	0.0782	5.31%	0.0442	3.37%
125.02	Glutamic, Post-col OPA Der (%)	1	1	3.090							
126.00	Glycine, Post-col Ninhydrin Der (%)	15	15	0.8384	0.0146	0.8391	0.0149	0.0048	1.77%	0.0110	4.11%
126.05	Glycine, Pre-col AQC Der (%)	8	8	0.7863	0.1281	0.8160	0.0622	0.0275	7.62%	0.0191	4.12%
126.02	Glycine, Post-col OPA Der (%)	1	1	0.8265							
127.00	Histidine, Post-col Ninhydrin Der (%)	15	15	0.4439	0.0154	0.4457	0.0118	0.0038	2.65%	0.0089	4.52%
127.05	Histidine, Pre-col AQC Der (%)	8	8	0.4237	0.0585	0.4295	0.0523	0.0231	12.18%	0.0142	4.54%
127.02	Histidine, Post-col OPA Der (%)	1	1	0.4450							
128.00	Isoleucine, Post-col Ninhydrin Der (%)	15	14	0.5871	0.0311	0.5880	0.0300	0.0100	5.10%	0.0080	4.33%
128.05	Isoleucine, Pre-col AQC Der (%)	8	8	0.5531	0.0881	0.5741	0.0408	0.0180	7.10%	0.0173	4.35%
128.02	Isoleucine, Post-col OPA Der (%)	1	1	0.6235							
129.00	Leucine, Post-col Ninhydrin Der (%)	15	14	1.265	0.0322	1.267	0.0317	0.0106	2.50%	0.0163	3.86%
129.05	Leucine, Pre-col AQC Der (%)	8	8	1.155	0.2313	1.213	0.0995	0.0440	8.21%	0.0195	3.89%
129.02	Leucine, Post-col OPA Der (%)	1	1	1.246							
130.00	L-Lysine, Post-col Ninhydrin Der (%)	15	15	0.7407	0.0266	0.7400	0.0286	0.0092	3.87%	0.0170	4.19%
130.05	L-Lysine, Pre-col AQC Der (%)	8	8	0.6757	0.1947	0.7291	0.0648	0.0286	8.89%	0.0156	4.19%
130.02	L-Lysine, Post-col OPA Der (%)	1	1	0.7940							
130.99	L-Lysine, Miscellaneous (%)	1	1	0.8866							
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	14	13	0.2613	0.0123	0.2602	0.0066	0.0023	2.55%	0.0075	4.90%
131.05	Methionine, PAO Pre-col AQC Der (%)	8	8	0.2459	0.0277	0.2485	0.0251	0.0111	10.09%	0.0108	4.93%

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131.02	Methionine, PAO Post-col OPA Der (%)	2	2	0.2620	0.0113						
131.99	Methionine, Miscellaneous (%)	1	1	0.2493							
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	15	15	0.7677	0.0261	0.7658	0.0249	0.0080	3.25%	0.0102	4.16%
132.05	Phenylalanine, Pre-col AQC Der (%)	8	8	0.7341	0.0823	0.7447	0.0666	0.0294	8.94%	0.0419	4.18%
132.02	Phenylalanine, Post-col OPA Der (%)	1	1	0.7535							
133.00	Proline, Post-col Ninhydrin Der (%)	15	14	1.036	0.0457	1.038	0.0473	0.0158	4.56%	0.0174	3.98%
133.05	Proline, Pre-col AQC Der (%)	8	8	0.9488	0.1758	0.9961	0.0621	0.0275	6.24%	0.0296	4.00%
134.00	Serine, Post-col Ninhydrin Der (%)	15	15	0.7730	0.0337	0.7793	0.0162	0.0052	2.08%	0.0150	4.15%
134.05	Serine, Pre-col AQC Der (%)	7	7	0.7958	0.0531	0.7958	0.0602	0.0285	7.57%	0.0216	4.14%
134.02	Serine, Post-col OPA Der (%)	1	1	0.6535							
135.00	Threonine, Post-col Ninhydrin Der (%)	15	15	0.5926	0.0118	0.5935	0.0112	0.0036	1.88%	0.0093	4.33%
135.05	Threonine, Pre-col AQC Der (%)	7	7	0.5946	0.0391	0.5946	0.0443	0.0209	7.45%	0.0195	4.33%
135.02	Threonine, Post-col OPA Der (%)	1	1	0.5225							
135.99	Threonine, Miscellaneous (%)	1	1	0.6233							
136.03	Tryptophan, Alka-Hydrol + IS RP LC FI (%)	7	7	0.2456	0.0096	0.2446	0.0086	0.0041	3.52%	0.0030	4.94%
136.05	Tryptophan, Pre-col AQC Der (%)	5	4	0.2002	0.0443	0.2002	0.0443	0.0222	22.14%	0.0085	5.10%
136.01	Tryptophan, Alka-Hydrol Rev Phase LC UV (%)	3	3	0.2603	0.0261	0.2603	0.0261	0.0184	10.02%		4.90%
136.99	Tryptophan, Miscellaneous (%)	3	3	0.2090	0.0488	0.2090	0.0488	0.0282	23.37%	0.0136	5.06%
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	2	2	0.1726	0.0178						
136.02	Tryptophan, Alka-Hydrol Post-col OPA De (%)	1	1	0.2302							
137.00	Tyrosine, Post-col Ninhydrin Der (%)	14	13	0.4985	0.0409	0.4981	0.0422	0.0146	8.47%	0.0083	4.44%
137.05	Tyrosine, Pre-col AQC Der (%)	8	8	0.4623	0.0808	0.4665	0.0817	0.0361	17.52%	0.0316	4.49%
137.02	Tyrosine, Post-col OPA Der (%)	1	1	0.4035							
138.00	Valine, Post-col Ninhydrin Der (%)	15	15	0.7961	0.0342	0.7967	0.0365	0.0118	4.58%	0.0156	4.14%
138.05	Valine, Pre-col AQC Der (%)	8	8	0.7505	0.1429	0.7826	0.0597	0.0264	7.63%	0.0190	4.15%
138.02	Valine, Post-col OPA Der (%)	1	1	0.8430							
139.00	Taurine, Post-col Ninhydrin Der (%)	2	2	0.1575	0.0813						
139.05	Taurine, Pre-col AQC Der (%)	2	1	0.0555							
139.02	Taurine, Post-col OPA Der (%)	2		0.0100							
160.10	Fructose, HPAEC PAD (%)	2	2	0.2075	0.0106						
160.99	Fructose, Miscellaneous (%)	1	1	0.3250							
161.10	Galactose, HPAEC PAD (%)	2	1	0.0200							
162.10	Glucose, HPAEC PAD (%)	2	2	0.1700	0.0354						
162.99	Glucose, Miscellaneous (%)	1		0.1500							
163.10	Lactose, HPAEC PAD (%)	1		0.0000							
163.99	Lactose, Miscellaneous (%)	1		0.1500							
164.10	Maltose, HPAEC PAD (%)	2	2	0.2500	0.0212						
164.99	Maltose, Miscellaneous (%)	1		0.1500							
165.10	Sucrose, HPAEC PAD (%)	2	2	2.310	0.2192						
165.99	Sucrose, Miscellaneous (%)	1	1	2.380							

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166.10	Raffinose, HPAEC PAD (%)	2	2	0.7750	0.0849						
166.99	Raffinose, Miscellaneous (%)	1	1	0.7050							
167.10	Stachyose, HPAEC PAD (%)	2	2	0.4325	0.1591						
167.99	Stachyose, Miscellaneous (%)	1	1	0.5600							
365.05	Monensin, LC-MS/MS (ppm)	9	9	19.82	2.133	19.80	2.388	0.9949	12.06%	1.194	10.21%
365.03	Monensin, LC-PCD (ppm)	5	5	19.56	1.498	19.56	1.498	0.6699	7.66%	0.7108	10.23%
365.02	Monensin, LC (ppm)	3	3	19.92	1.079	19.92	1.079	0.6230	5.42%	0.3767	10.20%
400.01	Water Activity, Aqualab chilled mirror (Units)	14	13	0.4816	0.0167	0.4813	0.0155	0.0054	3.23%	0.0043	
400.99	Water Activity, Miscellaneous (Units)	4	3	0.4715	0.0128	0.4715	0.0128	0.0074	2.71%	0.0077	
516.52	Arsenic, Total (As), ICP-MS, Open vessel (ppm)	3	3	0.0960	0.0298	0.0960	0.0298	0.0172	31.03%	0.0128	22.00%
516.53	Arsenic, Total (As), ICP-MS, Microwave (ppm)	3	3	0.0951	0.0063	0.0951	0.0063	0.0036	6.60%	0.0066	22.00%
516.00	Arsenic, Total (As), AA, Hydride (ppm)	1	1	0.0815							
516.43	Arsenic, Total (As), ICP, Microwave (ppm)	1		20.00							
518.52	Cadmium, ICP-MS, Open vessel (ppm)	3	3	0.1528	0.0072	0.1528	0.0072	0.0041	4.69%	0.0064	21.22%
518.53	Cadmium, ICP-MS, Microwave (ppm)	3	3	0.1568	0.0188	0.1568	0.0188	0.0109	12.01%	0.0148	21.14%
518.43	Cadmium, ICP, Microwave (ppm)	2	2	0.0939	0.1046						
518.33	Cadmium, AAS, Microwave (ppm)	1	1	0.1685							
518.41	Cadmium, ICP, Dry ash (ppm)	1	1	0.1485							
518.42	Cadmium, ICP, Open vessel (ppm)	1	1	0.1300							
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	5	5	6.893	1.426	6.893	1.426	0.6377	20.69%	0.0683	11.96%
520.42	Chromium, Total (Cr), ICP, Open vessel (ppm)	4	4	4.593	1.681	4.593	1.681	0.8407	36.61%	0.5085	12.72%
520.53	Chromium, Total (Cr), ICP-MS, Microwave (ppm)	3	3	5.651	0.7175	5.651	0.7175	0.4142	12.70%	0.9826	12.33%
520.41	Chromium, Total (Cr), ICP, Dry ash (ppm)	1	1	2.445							
520.51	Chromium, Total (Cr), ICP-MS, Dry ash (ppm)	1	1	1.280							
520.52	Chromium, Total (Cr), ICP-MS, Open vessel (ppm)	1	1	1.416							
526.53	Lead, ICP-MS, Microwave (ppm)	3	3	0.1035	0.0085	0.1035	0.0085	0.0049	8.24%	0.0356	22.00%
526.52	Lead, ICP-MS, Open vessel (ppm)	3	2	0.1002	0.0008	0.1002	0.0008			0.0034	22.00%
526.34	Lead, AAS, Graphite furnace (ppm)	1	1	0.9978							
526.41	Lead, ICP, Dry ash (ppm)	1	1	0.2192							
526.43	Lead, ICP, Microwave (ppm)	2	1	0.3748							
529.99	Mercury, Miscellaneous (ppb)	4	2	265.4	374.3	265.4	374.3				19.53%
539.43	Nickel, ICP, Microwave (ppm)	3	3	4.397	1.238	4.397	1.238	0.7149	28.17%	0.0889	12.80%
539.53	Nickel, ICP-MS, Microwave (ppm)	2	2	3.670	0.4804						
539.41	Nickel, ICP, Dry ash (ppm)	1	1	2.866							
539.51	Nickel, ICP-MS, Dry ash (ppm)	1	1	1.230							
539.52	Nickel, ICP-MS, Open vessel (ppm)	1	1	1.385							
702.00	Butyric Acid (4:0), Miscellaneous GC (%)	1		0.0000							
704.00	Caproic Acid (6:0) , Miscellaneous GC (%)	1		0.0005							
706.99	Caprylic acid (8:0), Miscellaneous (%) (w/w))	2		0.0000							
708.99	Capric acid (10:0), Miscellaneous (%) (w/w))	2	1	0.0800							

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 (Rob R-bar)	Thompson Horwitz %RSD
710.99	Lauric Acid (12:0), Miscellaneous (% (w/w))	3	1								
714.99	Myristic Acid (14:0), Miscellaneous (% (w/w))	3	3	0.0737	0.1138	0.0737	0.1138	0.0804	154.45%	0.0051	5.92%
716.99	Palmitic Acid (16:0), Miscellaneous (% (w/w))	3	3	6.175	9.518	6.175	9.518	6.730	154.14%	0.0585	3.04%
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (% (w/w))	3	3	0.0862	0.1332	0.0862	0.1332				5.78%
720.99	Margaric acid (17:0), Miscellaneous (% (w/w))	1	1	0.0060							
722.99	Stearic Acid (18:0), Miscellaneous (% (w/w))	3	3	0.7917	1.224	0.7917	1.224	0.8654	154.59%	0.0241	4.14%
724.99	Oleic Acid (9c-18:1), Miscellaneous (% (w/w))	3	3	6.896	10.66	6.896	10.66	7.535	154.54%	0.0457	2.99%
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (% (w/w))	3	3	18.34	28.30	18.34	28.30	20.01	154.35%	0.0237	2.34%
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellaneous (% (w/w))	3	3	1.309	2.023	1.309	2.023	1.431	154.57%	0.0061	3.84%
730.99	Arachidic Acid (20:0), Miscellaneous (% (w/w))	3	3	0.1125	0.1754	0.1125	0.1754	0.1240	155.93%	0.0037	5.56%
732.99	Gondoic Acid (11c-20:1), Miscellaneous (% (w/w))	2	2	0.0208	0.0018						
736.99	Arachidonic Acid (5c,8c,11c,14c-20:4), Miscellaneous (% (w/w))	1		0.0005							
740.99	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5), Miscellaneous (% (w/w))	3									
742.99	Behenic Acid (22:0), Miscellaneous (% (w/w))	3	3	0.1322	0.2103	0.1322	0.2103	0.1487	159.14%	0.0174	5.42%
744.99	Erucic Acid (13c-22:1), Miscellaneous (% (w/w))	3	2	0.0770	0.1032	0.0770	0.1032				5.88%
746.99	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5), Miscellaneous (% (w/w))	3									
748.99	Lignoceric Acid (24:0), Miscellaneous (% (w/w))	3	3	0.1265	0.1979	0.1265	0.1979	0.1399	156.43%	0.0252	5.46%
750.99	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6), Miscellaneous (% (w/w))	3									
752.99	Nervonic Acid (24:1) isomers, Miscellaneous (% (w/w))	2	1	0.0130							
754.99	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Miscellaneous (% (w/w))	2	2	0.1508	0.0202						
756.99	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Miscellaneous (% (w/w))	2	2	2.148	0.2436						
758.99	Total Saturated Fatty Acids, Miscellaneous (% (w/w))	2	2	10.96	14.35						
762.99	Total Monounsaturated Fatty Acids, Miscellaneous (% (w/w))	1	1	20.67							
764.99	Total cis Monounsaturated Fatty Acids, Miscellaneous (% (w/w))	1	1	0.8140							
766.99	Total Polyunsaturated Fatty Acids, Miscellaneous (% (w/w))	1	1	54.79							
768.99	Total cis Polyunsaturated Fatty Acids, Miscellaneous (% (w/w))	1	1	2.117							
770.99	Total Fat (equivalent to NLEA), Miscellaneous (% (w/w))	1	1	3.940							
772.99	Total Fatty Acids, Miscellaneous (% (w/w))	2	2	3.776	0.0120						

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.



AAFCO
Association of American Feed Control Officials



Animal Feed Scheme

Goat Feed, Residues

Test Material Code # 202530

Method Precision Report

Methods Reported: 128

Labs Reporting: 158

Issue Date : 11/30/2025

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 (%)	38	34	8.341	0.2679	0.2141	0.0913	0.2327	2.56%	1.09%	2.78%	2.550
001.99	Loss on Drying, Miscellaneous (%)	18	15	8.213	0.5247	0.4122	0.0543	0.4157	4.97%	0.66%	5.02%	7.650
002.01	Protein, Crude, Auto Kjel-Foss (%)	15	14	18.17	0.1764	0.1719	0.0744	0.1873	0.95%	0.41%	1.03%	2.519
002.05	Protein, Crude, Copper, Boric Acid (%)	15	15	18.08	0.3353	0.3235	0.1247	0.3467	1.79%	0.69%	1.92%	2.781
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	107	100	18.37	0.4945	0.3190	0.1681	0.3606	1.73%	0.91%	1.96%	2.145
002.11	Protein, Crude, NIR (%)	7	6	18.00	1.542	0.5938	0.1381	0.6097	3.20%	0.74%	3.29%	4.413
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	8	8	3.669	0.6436	0.6425	0.0528	0.6447	17.51%	1.44%	17.57%	12.21
003.06	Fat, Crude, Pet Ether (%)	13	12	3.600	0.2901	0.2864	0.0649	0.2937	7.96%	1.80%	8.16%	4.525
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	8	7	3.640	0.1306	0.1340	0.0565	0.1454	3.67%	1.55%	3.99%	2.575
003.10	Fat, Crude, Randall, Pet Ether (%)	27	25	3.416	0.2764	0.2239	0.1252	0.2565	6.50%	3.63%	7.45%	2.049
003.11	Fat, Crude, NIR (%)	5	5	3.834	0.4470	0.4453	0.0545	0.4486	11.62%	1.42%	11.70%	8.229
003.14	Fat, Crude, Ankom (%)	55	51	3.622	0.2787	0.2202	0.1244	0.2529	6.11%	3.45%	7.02%	2.033
004.00	Fiber, Crude, Asbestos Free (%)	6	6	12.83	0.5645	0.5283	0.2813	0.5985	4.12%	2.19%	4.67%	2.128
004.06	Fiber, Crude, Fibertec (%)	16	15	12.99	0.8777	0.8646	0.2140	0.8907	6.65%	1.65%	6.86%	4.161
004.07	Fiber, Crude, ANKOM (%)	74	71	13.00	0.9330	0.7499	0.2183	0.7811	5.80%	1.69%	6.04%	3.577
004.11	Fiber, Crude, NIR (%)	6	5	10.49	2.750	1.191	0.2290	1.212	12.59%	2.42%	12.82%	5.294
005.00	Ash, 2h @ 600°C (%)	87	79	8.385	0.2706	0.2095	0.1026	0.2332	2.50%	1.23%	2.79%	2.274
005.05	Ash, 3h @ 550°C (%)	17	17	8.579	0.3190	0.3126	0.0901	0.3253	3.64%	1.05%	3.79%	3.611
005.99	Ash, Miscellaneous (%)	8	7	8.682	0.2992	0.3172	0.0847	0.3283	3.66%	0.98%	3.78%	3.875
008.02	Fiber, Acid Detergent, Crucible (%)	11	10	17.63	1.934	0.6130	0.3590	0.7104	3.37%	1.97%	3.91%	1.979
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	45	43	17.89	1.165	1.148	0.2930	1.185	6.42%	1.64%	6.63%	4.043
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	11	11	36.01	1.595	1.583	0.2807	1.607	4.40%	0.78%	4.46%	5.727
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	42	39	34.98	1.041	1.046	0.2934	1.086	2.99%	0.84%	3.11%	3.702
010.11	Moisture, NIR (%)	6	6	9.183	0.8625	0.8374	0.2918	0.8868	9.12%	3.18%	9.66%	3.039
010.99	Moisture, Miscellaneous (%)	15	13	8.553	0.5823	0.3616	0.0801	0.3704	4.29%	0.95%	4.39%	4.625
011.01	Loss on Drying, HT, 135°C 2hr (%)	61	52	9.336	0.3949	0.2553	0.1081	0.2772	2.72%	1.15%	2.95%	2.564
012.00	Starch, Polarimetric (Ewers) (%)	14	12	16.26	0.2694	0.1824	0.1253	0.2213	1.12%	0.77%	1.36%	1.766
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	10	9	14.49	1.024	0.7400	0.4906	0.8878	5.18%	3.44%	6.22%	1.810

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
012.04	Starch, Enzymatic-Enzyme Membrane Technology (YSI) (%)	9	8	14.58	1.268	1.248	0.3162	1.287	8.56%	2.17%	8.83%	4.071
013.00	Fat, Pretreat, Acid hydrolysis (%)	15	13	4.634	0.6611	0.3534	0.1641	0.3896	7.43%	3.45%	8.19%	2.374
013.02	Fat, Pretreat, Mojonner, Bak Ext, Acid hydrolysis (%)	14	14	5.131	0.5716	0.5390	0.2688	0.6024	10.50%	5.24%	11.74%	2.241
013.10	Fat, Pretreat, Soxtec-Acid Hydrolysis (%)	6	6	4.343	0.5551	0.5458	0.1427	0.5642	12.57%	3.28%	12.99%	3.955
013.13	Fat, Pretreat, Ankom- Acid Hydrolysis (%)	12	11	4.689	0.5741	0.2916	0.2972	0.4164	6.40%	6.52%	9.14%	1.401
015.43	Aluminum, ICP, Microwave (ppm)	7	6	63.10	15.91	15.84	2.179	15.99	25.10%	3.45%	25.34%	7.336
017.41	Boron, ICP, Dry ash (ppm)	5	5	7.449	0.7011	0.6817	0.2318	0.7200	9.15%	3.11%	9.67%	3.106
017.43	Boron, ICP, Microwave (ppm)	6	6	6.637	0.7715	0.7326	0.3419	0.8085	11.04%	5.15%	12.18%	2.364
019.08	Calcium, EDTA (%)	9	8	1.348	0.0803	0.0844	0.0205	0.0868	6.27%	1.52%	6.45%	4.236
019.31	Calcium, AAS, Dry ash (%)	13	11	1.240	0.1281	0.0528	0.0386	0.0654	4.15%	3.03%	5.14%	1.693
019.41	Calcium, ICP, Dry ash (%)	22	21	1.248	0.0776	0.0624	0.0247	0.0671	5.04%	2.00%	5.42%	2.711
019.42	Calcium, ICP, Open vessel (%)	22	20	1.281	0.0549	0.0492	0.0347	0.0602	3.83%	2.70%	4.69%	1.736
019.43	Calcium, ICP, Microwave (%)	31	28	1.258	0.0941	0.0801	0.0297	0.0854	6.43%	2.38%	6.85%	2.875
019.99	Calcium, Miscellaneous (%)	6	5	1.258	0.5782	0.3215	0.0516	0.3256	30.50%	4.89%	30.89%	6.313
021.43	Cobalt, ICP, Microwave (ppm)	11	8	1.300	0.1549	0.1381	0.0255	0.1404	10.86%	2.00%	11.04%	5.511
022.31	Copper, AAS, Dry ash (ppm)	9	8	21.61	7.998	7.510	0.6017	7.534	36.93%	2.96%	37.05%	12.52
022.41	Copper, ICP, Dry ash (ppm)	15	15	20.33	5.748	5.706	0.9824	5.790	28.07%	4.83%	28.48%	5.894
022.42	Copper, ICP, Open vessel (ppm)	23	22	28.42	1.787	1.419	1.536	2.091	4.99%	5.40%	7.36%	1.362
022.43	Copper, ICP, Microwave (ppm)	27	25	32.24	8.829	3.331	2.615	4.235	11.09%	8.70%	14.10%	1.619
025.31	Iron, AAS, Dry ash (ppm)	9	9	227.1	36.52	36.09	7.878	36.94	15.89%	3.47%	16.27%	4.689
025.41	Iron, ICP, Dry ash (ppm)	19	18	232.8	20.98	16.11	8.757	18.34	6.83%	3.72%	7.78%	2.094
025.42	Iron, ICP, Open vessel (ppm)	21	20	227.7	23.94	20.95	8.231	22.51	9.10%	3.58%	9.78%	2.734
025.43	Iron, ICP, Microwave (ppm)	27	26	250.3	18.24	14.50	6.942	16.08	5.84%	2.80%	6.47%	2.316
027.31	Magnesium, AAS, Dry ash (%)	8	7	0.3591	0.0309	0.0143	0.0042	0.0149	3.88%	1.13%	4.04%	3.572
027.41	Magnesium, ICP, Dry ash (%)	16	15	0.3656	0.0147	0.0135	0.0081	0.0157	3.69%	2.22%	4.31%	1.938
027.42	Magnesium, ICP, Open vessel (%)	23	19	0.3733	0.0209	0.0133	0.0070	0.0151	3.61%	1.91%	4.09%	2.137
027.43	Magnesium, ICP, Microwave (%)	27	24	0.3793	0.0637	0.0340	0.0058	0.0345	9.28%	1.59%	9.41%	5.916
028.31	Manganese, AAS, Dry ash (ppm)	9	8	125.5	9.376	5.311	2.460	5.853	4.15%	1.92%	4.57%	2.379
028.41	Manganese, ICP, Dry ash (ppm)	15	13	124.7	5.939	5.987	2.163	6.366	4.80%	1.73%	5.11%	2.943
028.42	Manganese, ICP, Open vessel (ppm)	23	20	136.6	8.453	7.974	2.673	8.410	5.83%	1.96%	6.15%	3.146
028.43	Manganese, ICP, Microwave (ppm)	26	24	138.7	8.397	4.637	3.478	5.796	3.37%	2.53%	4.22%	1.666
031.01	Phosphorus, Photometric (%)	21	20	0.7037	0.0738	0.0394	0.0094	0.0405	5.49%	1.30%	5.64%	4.330
031.41	Phosphorus, ICP, Dry ash (%)	21	20	0.7124	0.0309	0.0300	0.0099	0.0316	4.22%	1.38%	4.44%	3.206
031.42	Phosphorus, ICP, Open vessel (%)	23	21	0.7319	0.0529	0.0391	0.0143	0.0416	5.39%	1.98%	5.74%	2.901
031.43	Phosphorus, ICP, Microwave (%)	31	28	0.7222	0.0550	0.0382	0.0103	0.0396	5.29%	1.43%	5.48%	3.829
031.99	Phosphorus, Miscellaneous (%)	6	6	0.6817	0.0495	0.0484	0.0147	0.0505	7.09%	2.16%	7.42%	3.434
032.31	Potassium, AAS, Dry ash (%)	7	6	0.9793	0.1747	0.1747	0.0066	0.1748	17.83%	0.68%	17.85%	26.30
032.41	Potassium, ICP, Dry ash (%)	17	17	1.027	0.0529	0.0518	0.0151	0.0540	5.05%	1.47%	5.26%	3.568

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
032.42	Potassium, ICP, Open vessel (%)	22	19	1.087	0.0663	0.0452	0.0189	0.0489	4.19%	1.75%	4.54%	2.593
032.43	Potassium, ICP, Microwave (%)	29	24	1.108	0.1527	0.0546	0.0144	0.0564	5.11%	1.35%	5.29%	3.928
033.00	Salt as chloride, Sol Cl (%)	14	13	1.302	0.1399	0.1389	0.0231	0.1408	10.67%	1.77%	10.81%	6.099
033.01	Salt as chloride, Poten Cl (%)	23	21	1.421	0.0514	0.0308	0.0149	0.0342	2.15%	1.04%	2.39%	2.296
033.99	Salt, Miscellaneous (%)	9	9	1.193	0.2674	0.2664	0.0312	0.2683	22.33%	2.61%	22.48%	8.598
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	6	6	0.6740	0.1135	0.1044	0.0630	0.1219	15.49%	9.35%	18.09%	1.934
035.31	Sodium, AAS, Dry ash (%)	8	7	0.3300	0.0633	0.0343	0.0152	0.0375	9.82%	4.35%	10.74%	2.470
035.41	Sodium, ICP, Dry ash (%)	21	21	0.3435	0.0194	0.0182	0.0091	0.0204	5.31%	2.65%	5.94%	2.238
035.42	Sodium, ICP, Open vessel (%)	20	19	0.3560	0.0196	0.0169	0.0113	0.0203	4.76%	3.19%	5.72%	1.796
035.43	Sodium, ICP, Microwave (%)	26	23	0.3597	0.0326	0.0232	0.0067	0.0242	6.56%	1.88%	6.83%	3.624
036.42	Sulfur, ICP, Open vessel (%)	19	18	0.3283	0.0189	0.0112	0.0121	0.0164	3.43%	3.70%	5.05%	1.364
036.43	Sulfur, ICP, Microwave (%)	16	15	0.3421	0.0310	0.0308	0.0050	0.0312	9.00%	1.47%	9.12%	6.223
037.31	Zinc, AAS, Dry ash (ppm)	8	7	116.0	20.64	8.956	1.491	9.079	7.30%	1.22%	7.40%	6.088
037.41	Zinc, ICP, Dry ash (ppm)	16	16	117.7	9.616	9.254	3.695	9.965	7.86%	3.14%	8.47%	2.696
037.42	Zinc, ICP, Open vessel (ppm)	22	20	130.4	7.918	7.304	5.030	8.868	5.60%	3.86%	6.80%	1.763
037.43	Zinc, ICP, Microwave (ppm)	26	23	138.7	20.82	9.625	4.035	10.44	7.16%	3.00%	7.76%	2.587
038.42	Molybdenum, ICP, Open vessel (ppm)	7	7	2.157	0.3781	0.3384	0.2385	0.4140	15.69%	11.05%	19.19%	1.736
038.43	Molybdenum, ICP, Microwave (ppm)	7	7	2.120	0.6891	0.6698	0.2286	0.7078	31.60%	10.78%	33.39%	3.096
038.53	Molybdenum, ICP-MS, Microwave (ppm)	5	5	2.216	0.1944	0.1726	0.1265	0.2139	7.79%	5.71%	9.65%	1.692
042.00	Chloride, Titrimetric (%)	8	7	0.8852	0.0895	0.0613	0.0140	0.0629	7.12%	1.63%	7.30%	4.488
106.02	Vitamin A, LC (KU / kg)	11	10	5.515	0.9086	0.2753	0.7291	0.7793	5.20%	13.76%	14.71%	1.069
108.02	Vitamin D3, LC (KU / kg)	6	5	2.804	0.6724	0.6670	0.1197	0.6777	23.79%	4.27%	24.17%	5.663
109.02	Vitamin E, LC (IU / kg)	13	12	59.34	18.37	18.29	2.380	18.44	30.82%	4.01%	31.08%	7.750
120.00	Alanine, Post-col Ninhydrin Der (%)	15	15	0.8744	0.0164	0.0144	0.0113	0.0183	1.64%	1.29%	2.09%	1.618
120.05	Alanine, Pre-col AQC Der (%)	8	7	0.8074	0.1898	0.0547	0.0117	0.0559	6.27%	1.34%	6.41%	4.773
121.00	Arginine, Post-col Ninhydrin Der (%)	15	14	1.139	0.0296	0.0292	0.0065	0.0299	2.57%	0.57%	2.63%	4.615
121.05	Arginine, Pre-col AQC Der (%)	8	7	1.036	0.1863	0.0692	0.0244	0.0734	6.30%	2.22%	6.68%	3.005
122.00	Aspartic, Post-col Ninhydrin Der (%)	15	14	1.383	0.0289	0.0278	0.0110	0.0299	2.01%	0.80%	2.16%	2.714
122.05	Aspartic, Pre-col AQC Der (%)	8	7	1.280	0.3246	0.0840	0.0093	0.0845	6.04%	0.67%	6.07%	9.086
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	14	13	0.3095	0.0138	0.0138	0.0042	0.0144	4.45%	1.35%	4.65%	3.457
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	8	7	0.2911	0.0360	0.0341	0.0086	0.0352	11.96%	3.03%	12.34%	4.076
125.00	Glutamic, Post-col Ninhydrin Der (%)	15	14	3.115	0.0701	0.0689	0.0182	0.0713	2.21%	0.58%	2.29%	3.922
125.05	Glutamic, Pre-col AQC Der (%)	8	7	3.116	0.1460	0.1441	0.0333	0.1479	4.62%	1.07%	4.75%	4.442
126.00	Glycine, Post-col Ninhydrin Der (%)	15	14	0.8384	0.0146	0.0107	0.0078	0.0132	1.27%	0.93%	1.57%	1.696
126.05	Glycine, Pre-col AQC Der (%)	8	7	0.7863	0.1281	0.0422	0.0115	0.0438	5.09%	1.38%	5.28%	3.814
127.00	Histidine, Post-col Ninhydrin Der (%)	15	14	0.4439	0.0154	0.0092	0.0046	0.0103	2.06%	1.03%	2.30%	2.227
127.05	Histidine, Pre-col AQC Der (%)	8	8	0.4237	0.0585	0.0580	0.0110	0.0590	13.68%	2.61%	13.93%	5.346
128.00	Isoleucine, Post-col Ninhydrin Der (%)	15	13	0.5871	0.0311	0.0256	0.0090	0.0271	4.32%	1.52%	4.58%	3.014

Test Material Code # 202530

Issue Date : 11/30/2025

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
128.05	Isoleucine, Pre-col AQC Der (%)	8	7	0.5531	0.0881	0.0271	0.0110	0.0293	4.66%	1.88%	5.02%	2.668
129.00	Leucine, Post-col Ninhydrin Der (%)	15	13	1.265	0.0322	0.0241	0.0112	0.0266	1.90%	0.88%	2.09%	2.382
129.05	Leucine, Pre-col AQC Der (%)	8	7	1.155	0.2313	0.0679	0.0159	0.0698	5.51%	1.29%	5.65%	4.392
130.00	L-Lysine, Post-col Ninhydrin Der (%)	15	14	0.7407	0.0266	0.0256	0.0131	0.0288	3.45%	1.77%	3.88%	2.196
130.05	L-Lysine, Pre-col AQC Der (%)	8	7	0.6757	0.1947	0.0443	0.0097	0.0453	5.96%	1.30%	6.10%	4.698
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	14	12	0.2613	0.0123	0.0066	0.0044	0.0079	2.56%	1.69%	3.06%	1.814
131.05	Methionine, PAO Pre-col AQC Der (%)	8	8	0.2459	0.0277	0.0271	0.0079	0.0283	11.03%	3.22%	11.49%	3.572
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	15	14	0.7677	0.0261	0.0198	0.0065	0.0209	2.60%	0.86%	2.74%	3.195
132.05	Phenylalanine, Pre-col AQC Der (%)	8	7	0.7341	0.0823	0.0414	0.0285	0.0503	5.46%	3.76%	6.63%	1.763
133.00	Proline, Post-col Ninhydrin Der (%)	15	14	1.036	0.0457	0.0444	0.0157	0.0471	4.28%	1.52%	4.55%	2.996
133.05	Proline, Pre-col AQC Der (%)	8	7	0.9488	0.1758	0.0402	0.0214	0.0456	3.99%	2.12%	4.51%	2.133
134.00	Serine, Post-col Ninhydrin Der (%)	15	14	0.7730	0.0337	0.0105	0.0110	0.0152	1.35%	1.40%	1.95%	1.388
134.05	Serine, Pre-col AQC Der (%)	7	7	0.7958	0.0531	0.0518	0.0165	0.0544	6.51%	2.08%	6.83%	3.293
135.00	Threonine, Post-col Ninhydrin Der (%)	15	14	0.5926	0.0118	0.0077	0.0074	0.0107	1.29%	1.25%	1.80%	1.438
135.05	Threonine, Pre-col AQC Der (%)	7	7	0.5946	0.0391	0.0378	0.0141	0.0403	6.35%	2.38%	6.78%	2.854
136.03	Tryptophan, Alka-Hydrol + IS RP LC FI (%)	7	6	0.2456	0.0096	0.0091	0.0012	0.0091	3.66%	0.50%	3.70%	7.463
137.00	Tyrosine, Post-col Ninhydrin Der (%)	14	12	0.4985	0.0409	0.0357	0.0047	0.0361	7.08%	0.94%	7.14%	7.627
137.05	Tyrosine, Pre-col AQC Der (%)	8	8	0.4623	0.0808	0.0796	0.0192	0.0819	17.23%	4.15%	17.72%	4.268
138.00	Valine, Post-col Ninhydrin Der (%)	15	14	0.7961	0.0342	0.0278	0.0158	0.0320	3.47%	1.98%	4.00%	2.021
138.05	Valine, Pre-col AQC Der (%)	8	7	0.7505	0.1429	0.0479	0.0134	0.0498	6.00%	1.68%	6.24%	3.708
365.03	Monensin, LC-PCD (ppm)	5	5	19.56	1.498	1.436	0.6040	1.558	7.34%	3.09%	7.96%	2.579
365.05	Monensin, LC-MS/MS (ppm)	9	9	19.82	2.133	1.999	1.052	2.259	10.09%	5.31%	11.40%	2.146
400.01	Water Activity, Aqualab chilled mirror (Units)	14	13	0.4816	0.0167	0.0165	0.0035	0.0169	3.43%	0.72%	3.51%	4.841
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	5	5	6.893	1.426	1.426	0.0484	1.426	20.68%	0.70%	20.69%	29.47

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