



AAFCO
Proficiency Testing Program



Animal Feed Scheme
Cattle Feed, Medicated
Test Material Code # 202028

Analyte Summary Report

Labs Reporting: 184
Analytes Reported: 118
Issue Date : 09/30/2020

Analyte Group Code	Analyte and Method	Total # Tests Submitted	# Tests 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	Urea (%)	1	1	0.5000							
001	Loss on Drying (%)	81	80	9.264	0.4665	9.311	0.2394	0.0335	2.57%	0.1054	2.86%
002	Protein, Crude (%)	177	171	14.87	0.6207	14.79	0.3190	0.0305	2.16%	0.1554	2.60%
003	Fat, Crude (%)	148	146	4.060	0.4122	4.040	0.3236	0.0335	8.01%	0.1117	3.24%
004	Fiber, Crude (%)	119	116	15.16	1.178	15.09	0.9920	0.1151	6.57%	0.3206	2.57%
005	Ash (%)	136	133	12.33	0.8124	12.42	0.5419	0.0587	4.36%	0.1238	2.74%
006	Total Sugars (%)	4	4	2.758	0.4074	2.758	0.4074	0.2037	14.77%	0.1388	3.43%
008	Fiber, Acid Detergent (%)	56	54	20.64	1.939	20.68	2.091	0.3557	10.11%	0.3414	2.20%
009	Fiber, Neutral Detergent (%)	55	53	35.54	2.133	35.58	1.854	0.3183	5.21%	0.4941	1.68%
010	Moisture (%)	20	19	9.413	0.5341	9.414	0.6030	0.1729	6.41%	0.0956	2.85%
011	Loss on Drying (%)	69	68	10.45	0.6409	10.48	0.6305	0.0956	6.02%	0.1236	2.81%
012	Starch (%)	34	34	15.16	6.254	13.79	1.220	0.2615	8.85%	0.4052	2.69%
013	Fat, Acid Pretreat (%)	47	45	5.064	0.7734	5.092	0.6206	0.1156	12.19%	0.1785	3.13%
015	Aluminum (ppm)	17	16	83.80	23.76	84.42	25.54	7.983	30.26%	2.679	8.21%
017	Boron (ppm)	18	17	5.803	1.290	5.746	1.339	0.4059	23.30%	0.6194	12.30%
019	Calcium (%)	125	124	2.195	0.1696	2.199	0.1320	0.0148	6.00%	0.0585	3.55%
021	Cobalt (ppm)	28	27	1.922	0.4133	1.947	0.4022	0.0968	20.66%	0.1362	14.47%
022	Copper (ppm)	90	90	40.89	11.15	41.34	11.46	1.510	27.72%	2.499	9.14%
024	Iodine (ppm)	1	1	2.430							
025	Iron (ppm)	83	81	259.7	49.20	265.3	34.59	4.805	13.04%	8.857	6.91%
027	Magnesium (%)	83	82	0.3086	0.0275	0.3117	0.0167	0.0023	5.37%	0.0070	4.77%
028	Manganese (ppm)	87	86	182.6	19.48	183.3	17.79	2.397	9.71%	5.505	7.30%
031	Phosphorus (%)	122	120	0.7424	0.0629	0.7440	0.0378	0.0043	5.08%	0.0160	4.18%
032	Potassium (%)	93	89	0.8902	0.1035	0.8962	0.0985	0.0130	10.99%	0.0189	4.07%
033	Salt as chloride (%)	71	70	1.036	0.0857	1.044	0.0585	0.0087	5.61%	0.0199	3.97%
034	Selenium (ppm)	31	29	1.166	0.4261	1.132	0.2131	0.0495	18.82%	0.1028	15.70%
035	Sodium (%)	93	91	0.4131	0.0412	0.4167	0.0345	0.0045	8.29%	0.0141	4.56%
036	Sulfur (%)	40	40	0.3505	0.0392	0.3507	0.0387	0.0076	11.03%	0.0109	4.68%
037	Zinc (ppm)	89	87	184.5	28.52	185.3	26.76	3.587	14.44%	6.016	7.29%

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038	Molybdenum (ppm)	20	19	1.750	0.4242	1.711	0.3109	0.0892	18.17%	0.1086	14.75%
040	Barium (ppm)	1	1	8.430							
041	Vanadium (ppm)	1	1	0.8945							
042	Chloride (%)	6	6	1.451	2.093	0.6421	0.1478	0.0754	23.01%	0.0435	4.28%
095	Methoprene (ppm)	1	1	1.462							
101	Choline Chloride (ppm)	1	1	1,525							
102	Niacin (ppm)	1	1	72.30							
103	Pantothenic Acid (ppm)	1	1	7.295							
104	Riboflavin (ppm)	2	2	2.763	2.457						
105	Thiamine (ppm)	2	2	2.375	0.5091						
106	Vitamin A (KU / kg)	17	17	2.511	1.072	2.504	1.163	0.3526	46.46%	0.7941	
107	Vitamin B12 (ppb)	1	1	77.20							
108	Vitamin D3 (KU / kg)	8	6	2.556	0.5337	2.556	0.6053	0.3089	23.68%	0.2283	
109	Vitamin E (IU / kg)	11	10	19.15	4.762	18.88	4.760	1.881	25.21%	0.9210	
111	Vitamin C, Phosphorylated (ppm)	1		4.400							
112	Pyridoxine (µg / g)	1	1	3.365							
113	Folic Acid (ppm)	1	1	0.5375							
114	Biotin (ppm)	1	1	0.2380							
115	Non Protein N (NPN) (%)	1	1	0.5700							
118	Peroxide value (meq/kg)	1	1	1.985							
120	Alanine (%)	33	32	0.8447	0.0506	0.8495	0.0316	0.0070	3.72%	0.0132	4.10%
121	Arginine (%)	32	31	0.7455	0.0399	0.7452	0.0382	0.0086	5.13%	0.0135	4.18%
122	Aspartic (%)	33	32	1.000	0.0629	1.000	0.0504	0.0111	5.04%	0.0172	4.00%
124	Cysteine/Cystine (%)	31	29	0.2780	0.0269	0.2801	0.0246	0.0057	8.78%	0.0080	4.84%
125	Glutamic (%)	33	31	2.425	0.1271	2.425	0.1338	0.0300	5.52%	0.0307	3.50%
126	Glycine (%)	33	32	0.6433	0.0748	0.6459	0.0240	0.0053	3.71%	0.0106	4.27%
127	Histidine (%)	33	33	0.3787	0.0364	0.3768	0.0294	0.0064	7.79%	0.0087	4.63%
128	Isoleucine (%)	33	32	0.4636	0.0454	0.4657	0.0453	0.0100	9.73%	0.0093	4.49%
129	Leucine (%)	33	31	1.206	0.0654	1.208	0.0560	0.0126	4.64%	0.0148	3.89%
130	L-Lysine (%)	33	32	0.4792	0.0986	0.4937	0.0319	0.0071	6.46%	0.0119	4.45%
131	Methionine (%)	33	32	0.2477	0.0328	0.2459	0.0198	0.0044	8.05%	0.0051	4.94%
132	Phenylalanine (%)	33	32	0.6031	0.0468	0.5974	0.0321	0.0071	5.36%	0.0140	4.32%
133	Proline (%)	32	32	1.068	0.1070	1.055	0.0602	0.0133	5.71%	0.0289	3.97%
134	Serine (%)	33	32	0.6431	0.0417	0.6399	0.0368	0.0081	5.76%	0.0148	4.28%
135	Threonine (%)	32	31	0.5084	0.0340	0.5107	0.0286	0.0064	5.60%	0.0090	4.43%
136	Tryptophan (%)	20	20	0.1544	0.0514	0.1525	0.0237	0.0066	15.56%	0.0042	5.31%
137	Tyrosine (%)	26	24	0.4336	0.0708	0.4338	0.0713	0.0182	16.44%	0.0106	4.54%
138	Valine (%)	32	32	0.6537	0.0663	0.6615	0.0481	0.0106	7.27%	0.0126	4.26%
139	Taurine (%)	5	2	0.0810	0.0226	0.0810	0.0226	0.0160	27.94%	0.0020	5.84%
160	Fructose (%)	3	3	0.1948	0.0464	0.1948	0.0464	0.0268	23.82%	0.0202	5.12%

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161	Galactose (%)	1		0.0000							
162	Glucose (%)	3	3	0.2262	0.0638	0.2262	0.0638	0.0368	28.21%	0.0163	5.00%
163	Lactose (%)	3									
164	Maltose (%)	2	1	0.3305							
165	Sucrose (%)	3	3	1.248	0.8760	1.248	0.8760	0.5058	70.21%	0.1160	3.87%
166	Raffinose (%)	3	3	0.3332	0.2234	0.3332	0.2234	0.1290	67.05%	0.0297	4.72%
167	Stachyose (%)	3	2	0.6940	0.8174	0.6940	0.8174	0.5780	117.78%	0.0790	4.23%
345	Amprolium (ppm)	3	2	0.1250	0.1669	0.1250	0.1669	0.1180	133.50%	0.0050	21.87%
351	Chlortetracycline (ppm)	18	17	125.4	37.64	130.5	29.40	8.913	22.53%	6.009	7.68%
354	Decoquinatate (ppm)	7	5	0.3804	0.1970	0.3804	0.1970	0.1102	51.80%	0.0212	18.50%
361	Lasalocid Sodium (ppm)	6	2	0.1900	0.0283	0.1900	0.0283	0.0250	14.88%	0.0200	20.54%
365	Monensin (ppm)	32	31	36.02	4.257	36.21	2.238	0.5025	6.18%	1.346	9.32%
400	Water Activity (Units)	10	9	0.5988	0.0090	0.5990	0.0097	0.0040	1.62%	0.0021	
516	Arsenic, Total (ppm)	12	10	0.2105	0.0694	0.1916	0.0345	0.0136	18.02%	0.0154	20.51%
518	Cadmium (ppm)	13	12	0.0986	0.0280	0.0933	0.0119	0.0043	12.72%	0.0043	22.00%
520	Chromium (ppm)	12	11	9.355	6.019	9.119	6.287	2.369	68.94%	0.1937	11.47%
526	Lead (ppm)	11	10	0.1897	0.0782	0.1838	0.0743	0.0294	40.42%	0.0184	20.64%
529	Mercury (ppb)	4	2	1.893	0.8588	1.893	0.8588	0.6072	45.37%	0.7745	22.00%
539	Nickel (ppm)	7	7	6.039	2.754	6.039	3.123	1.475	51.71%	0.4021	12.20%
702	Butyric Acid (4:0) (%)	1		0.0000							
704	Caproic Acid (6:0) (%)	1	1	0.0020							
706	Caprylic acid (8:0) (%) (w/w)	1		0.0005							
708	Capric acid (10:0) (%) (w/w)	1	1	0.0010							
710	Lauric Acid (12:0) (%) (w/w)	4	1								
714	Myristic Acid (14:0) (%) (w/w)	3	2	0.0118	0.0046	0.0118	0.0046	0.0033	39.15%	0.0005	7.81%
716	Palmitic Acid (16:0) (%) (w/w)	3	3	0.8183	0.0335	0.8183	0.0335	0.0194	4.10%	0.0680	4.12%
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	3	3	0.0287	0.0033	0.0287	0.0033	0.0019	11.61%	0.0047	6.83%
722	Stearic Acid (18:0) (%) (w/w)	3	3	0.1840	0.0056	0.1840	0.0056	0.0032	3.03%	0.0080	5.16%
724	Oleic Acid (9c-18:1) (%) (w/w)	3	3	1.091	0.0992	1.091	0.0992	0.0573	9.09%	0.0490	3.95%
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	5	5	1.813	0.1954	1.813	0.1954	0.0874	10.78%	0.0530	3.66%
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	4	3	0.0927	0.0046	0.0927	0.0046	0.0027	4.99%	0.0013	5.72%
730	Arachidic Acid (20:0) (%) (w/w)	3	2	0.0195	0.0064	0.0195	0.0064	0.0045	32.62%	0.0050	7.23%
732	Gondoic Acid (11c-20:1) (%) (w/w)	3	3	0.0233	0.0049	0.0233	0.0049	0.0028	21.13%	0.0053	7.04%
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (%) (w/w)	2		0.0000							
738	Mead Acid (11c,14c,17c-20:3) (%) (w/w)	1		0.0000							
740	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5) (%) (w/w)	3									
742	Behenic Acid (22:0) (%) (w/w)	2	1	0.0095							
744	Erucic Acid (13c-22:1) (%) (w/w)	2		0.0000							
746	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%) (w/w)	3									
748	Lignoceric Acid (24:0) (%) (w/w)	1	1	0.0160							

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750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%)	3									
752	Nervonic Acid (24:1) isomers (% (w/w))	2		0.0000							
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids (% (w/w))	3	3	0.1020	0.0035	0.1020	0.0035	0.0020	3.39%	0.0020	5.64%
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (% (w/w))	3	3	1.922	0.1118	1.922	0.1118	0.0646	5.82%	0.0567	3.63%
758	Total Saturated Fatty Acids (% (w/w))	1	1	1.105							
762	Total Monounsaturated Fatty Acids (% (w/w))	1	1	1.165							
766	Total Polyunsaturated Fatty Acids (% (w/w))	1	1	1.915							
770	Total Fat (equivalent to NLEA) (% (w/w))	1	1	4.400							
772	Total Fatty Acids (% (w/w))	2	2	4.116	0.1259						

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.