



**AAFCO**  
Proficiency Testing Program



**Animal Feed Scheme**  
**Beef Feed, Medicated**  
**Test Material Code # 202123**

**Analyte Summary Report**

**# Labs Reporting: 175**  
**# Analytes Reported: 120**  
**Issue Date : 04/30/2021**

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	0.1500							
001	Loss on Drying (%)	75	74	10.08	0.4837	10.16	0.2923	0.0425	2.88%	0.1065	2.82%
002	Protein, Crude (%)	168	165	14.72	0.3283	14.70	0.2525	0.0246	1.72%	0.1284	2.61%
003	Fat, Crude (%)	144	141	3.302	0.3114	3.316	0.2416	0.0254	7.29%	0.1033	3.34%
004	Fiber, Crude (%)	118	116	3.540	0.4642	3.531	0.3760	0.0436	10.65%	0.1204	3.31%
005	Ash (%)	133	130	6.347	0.3460	6.338	0.2951	0.0323	4.66%	0.0744	3.03%
006	Total Sugars (%)	7	7	5.760	0.8767	5.625	0.6540	0.3090	11.63%	0.1543	3.08%
008	Fiber, Acid Detergent (%)	61	60	5.238	0.5853	5.218	0.4471	0.0722	8.57%	0.1493	3.12%
009	Fiber, Neutral Detergent (%)	59	58	12.87	1.338	12.79	0.9896	0.1624	7.74%	0.2101	2.73%
010	Moisture (%)	18	17	10.09	0.3517	10.09	0.3136	0.0951	3.11%	0.0529	2.82%
011	Loss on Drying, HT (%)	73	72	10.91	0.3963	10.95	0.2933	0.0432	2.68%	0.0927	2.79%
012	Starch (%)	34	33	42.31	2.681	42.19	2.273	0.4945	5.39%	0.8804	1.54%
013	Fat, Acid Pretreat (%)	56	55	4.317	0.5482	4.293	0.5117	0.0863	11.92%	0.1880	3.21%
015	Aluminum (ppm)	19	19	73.17	20.62	75.36	17.29	4.959	22.95%	3.149	8.35%
017	Boron (ppm)	21	19	6.452	0.5355	6.387	0.4134	0.1186	6.47%	0.4330	12.10%
019	Calcium (%)	127	124	1.242	0.1030	1.247	0.0667	0.0075	5.35%	0.0329	3.87%
021	Cobalt (ppm)	29	29	2.036	0.6273	1.973	0.3125	0.0725	15.84%	0.2342	14.44%
022	Copper (ppm)	93	91	48.05	4.006	47.81	3.363	0.4406	7.03%	1.467	8.94%
025	Iron (ppm)	82	79	228.2	18.28	228.2	15.13	2.128	6.63%	6.445	7.06%
027	Magnesium (%)	78	76	0.2615	0.0150	0.2613	0.0125	0.0018	4.79%	0.0081	4.89%
028	Manganese (ppm)	90	89	147.4	12.00	147.8	10.28	1.362	6.96%	4.216	7.54%
031	Phosphorus (%)	124	122	0.6003	0.0547	0.5973	0.0251	0.0028	4.20%	0.0136	4.32%
032	Potassium (%)	95	93	0.8395	0.0480	0.8405	0.0411	0.0053	4.89%	0.0205	4.11%
033	Salt as chloride (%)	62	59	1.014	0.1110	1.035	0.0390	0.0063	3.77%	0.0160	3.98%
034	Selenium (ppm)	26	24	1.269	0.1779	1.258	0.1687	0.0430	13.41%	0.0776	15.45%
035	Sodium (%)	91	90	0.3285	0.0327	0.3309	0.0154	0.0020	4.65%	0.0113	4.72%
036	Sulfur (%)	45	45	0.2511	0.0315	0.2505	0.0190	0.0035	7.60%	0.0095	4.93%
037	Zinc (ppm)	92	89	178.3	9.886	178.3	9.566	1.267	5.37%	4.369	7.33%
038	Molybdenum (ppm)	23	22	2.019	0.2636	2.003	0.2301	0.0613	11.49%	0.1113	14.41%

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040	Barium (ppm)	4	4	3.906	0.1667	3.906	0.1667	0.0834	4.27%	0.2326	13.03%
041	Vanadium (ppm)	2	2	0.7722	0.0101						
042	Chloride (%)	5	5	0.6396	0.0524	0.6396	0.0524	0.0234	8.19%	0.0136	4.28%
101	Choline Chloride (ppm)	1	1	1,570							
102	Niacin (ppm)	4	4	21.45	20.41	21.45	20.41	10.20	95.15%	0.5500	10.08%
103	Pantothenic Acid (ppm)	3	3	10.02	4.095	10.02	4.095	2.364	40.86%	1.143	11.31%
104	Riboflavin (ppm)	5	4	2.126	1.573	2.126	1.573	0.7863	73.97%	0.1800	14.28%
105	Thiamine (ppm)	1	1	3.840							
106	Vitamin A (KU / kg)	20	19	14.45	5.130	13.84	3.891	1.116	28.12%	2.160	
107	Vitamin B12 (ppb)	2	2	47.45	58.05						
108	Vitamin D3 (KU / kg)	7	7	4.624	1.265	4.574	1.320	0.6235	28.85%	0.8043	
109	Vitamin E (IU / kg)	16	16	91.32	17.48	92.07	12.42	3.881	13.49%	2.358	
111	Vitamin C, Phosphorylated (ppm)	1		4.400							
112	Pyridoxine (µg / g)	1	1	3.530							
113	Folic Acid (ppm)	1	1	0.7235							
114	Biotin (ppm)	1	1	0.2190							
115	Non Protein N (NPN) (%)	1	1	0.4000							
118	Peroxide value (meq/kg)	1	1	6.095							
120	Alanine (%)	27	26	0.8031	0.0778	0.8008	0.0270	0.0066	3.37%	0.0113	4.14%
121	Arginine (%)	26	25	0.8399	0.0436	0.8399	0.0494	0.0124	5.89%	0.0180	4.11%
122	Aspartic (%)	27	26	1.211	0.1223	1.214	0.0653	0.0160	5.38%	0.0201	3.88%
124	Cysteine/Cystine (%)	25	24	0.2472	0.0270	0.2470	0.0295	0.0075	11.93%	0.0055	4.94%
125	Glutamic (%)	27	26	2.482	0.2396	2.491	0.1488	0.0365	5.97%	0.0305	3.49%
126	Glycine (%)	27	26	0.6187	0.0630	0.6212	0.0353	0.0087	5.68%	0.0108	4.30%
127	Histidine (%)	27	26	0.3776	0.0548	0.3728	0.0259	0.0064	6.96%	0.0094	4.64%
128	Isoleucine (%)	27	26	0.5004	0.0662	0.5090	0.0516	0.0126	10.13%	0.0117	4.43%
129	Leucine (%)	27	26	1.192	0.1184	1.214	0.0637	0.0156	5.25%	0.0157	3.88%
130	L-Lysine (%)	27	26	0.6306	0.0698	0.6389	0.0474	0.0116	7.42%	0.0093	4.28%
131	Methionine (%)	26	25	0.2197	0.0379	0.2233	0.0222	0.0055	9.94%	0.0065	5.01%
132	Phenylalanine (%)	27	26	0.6230	0.1025	0.6423	0.0537	0.0132	8.36%	0.0116	4.28%
133	Proline (%)	26	24	0.9526	0.1288	0.9375	0.0785	0.0200	8.38%	0.0132	4.04%
134	Serine (%)	27	26	0.6513	0.0611	0.6552	0.0572	0.0140	8.73%	0.0162	4.26%
135	Threonine (%)	27	26	0.5129	0.0488	0.5197	0.0302	0.0074	5.81%	0.0087	4.41%
136	Tryptophan (%)	15	15	0.1892	0.0706	0.1690	0.0247	0.0080	14.61%	0.0060	5.23%
137	Tyrosine (%)	23	22	0.4468	0.0747	0.4441	0.0697	0.0186	15.69%	0.0063	4.52%
138	Valine (%)	27	26	0.6533	0.0961	0.6555	0.0489	0.0120	7.45%	0.0103	4.26%
139	Taurine (%)	6	3	0.0350	0.0435	0.0350	0.0435	0.0314	124.26%	0.0000	6.62%
150	Phytase (Units / kg)	2	2	41.23	18.07						
160	Fructose (%)	3	3	0.3050	0.0325	0.3050	0.0325	0.0188	10.65%	0.0440	4.78%
161	Galactose (%)	1		0.0000							

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162	Glucose (%)	3	2	0.1753	0.0074	0.1753	0.0074	0.0052	4.23%	0.0415	5.20%
163	Lactose (%)	3									
164	Maltose (%)	2	1	0.2280							
165	Sucrose (%)	3	3	3.198	0.3636	3.198	0.3636	0.2099	11.37%	0.1207	3.36%
166	Raffinose (%)	3	3	0.5018	0.0440	0.5018	0.0440	0.0254	8.77%	0.0223	4.44%
167	Stachyose (%)	3	3	0.5238	0.0564	0.5238	0.0564	0.0325	10.76%	0.0217	4.41%
351	Chlortetracycline (ppm)	4	2	0.7156	0.1936	0.7156	0.1936	0.1369	27.06%	0.1191	16.82%
354	Decoquinatate (ppm)	5	5	0.4892	0.2033	0.4892	0.2033	0.0909	41.55%	0.0168	17.81%
361	Lasalocid Sodium (ppm)	8	8	0.8366	0.5839	<b>0.7066</b>	0.3023	0.1336	42.78%	0.0848	16.85%
365	Monensin (ppm)	26	<b>26</b>	17.27	2.646	<b>17.00</b>	2.076	0.5089	12.21%	1.012	10.44%
379	Salinomycin (ppm)	1		0.2500							
382	Sulfamethazine (ppm)	3	3	0.9942	0.0351	0.9942	0.0351	0.0203	3.53%	0.1583	16.01%
391	Narasin (ppm)	2		0.0000							
400	Water Activity (Units)	13	<b>13</b>	0.5297	0.0291	<b>0.5331</b>	0.0179	0.0062	3.36%	0.0041	
516	Arsenic, Total (ppm)	11	<b>10</b>	0.1406	0.0277	<b>0.1337</b>	0.0098	0.0039	7.30%	0.0107	21.65%
518	Cadmium (ppm)	11	<b>11</b>	0.0936	0.0358	<b>0.0845</b>	0.0068	0.0026	8.05%	0.0042	22.00%
520	Chromium (ppm)	16	<b>16</b>	2.735	0.8127	<b>2.735</b>	0.9216	0.2880	33.70%	0.1894	13.75%
526	Lead (ppm)	13	<b>12</b>	0.1042	0.0454	<b>0.0948</b>	0.0295	0.0107	31.14%	0.0162	22.00%
529	Mercury (ppb)	4	2	0.7588	0.3412	0.7588	0.3412	0.2413	44.97%	0.0022	22.00%
539	Nickel (ppm)	9	<b>9</b>	1.849	0.3399	<b>1.849</b>	0.3854	0.1606	20.85%	0.1079	14.58%
702	Butyric Acid (4:0) (%)	2		0.0000							
704	Caproic Acid (6:0) (%)	2	1	0.0010							
706	Caprylic acid (8:0) (%) (w/w)	2		0.0000							
708	Capric acid (10:0) (%) (w/w)	2		0.0000							
710	Lauric Acid (12:0) (%) (w/w)	4	1								
714	Myristic Acid (14:0) (%) (w/w)	3	1								
716	Palmitic Acid (16:0) (%) (w/w)	3	3	0.5381	0.0564	0.5381	0.0564	0.0326	10.49%	0.0431	4.39%
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	4	3	0.0142	0.0077	0.0142	0.0077	0.0044	53.99%	0.0004	7.59%
720	Margaric acid (17:0) (%) (w/w)	1		0.0200							
722	Stearic Acid (18:0) (%) (w/w)	3	3	0.0658	0.0157	0.0658	0.0157	0.0090	23.80%	0.0011	6.02%
724	Oleic Acid (9c-18:1) (%) (w/w)	3	3	0.8546	0.0393	0.8546	0.0393	0.0227	4.59%	0.0402	4.10%
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	4	3	1.952	0.1084	1.952	0.1084	0.0626	5.55%	0.0177	3.62%
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	4	4	0.0968	0.0125	0.0968	0.0125	0.0062	12.89%	0.0016	5.68%
730	Arachidic Acid (20:0) (%) (w/w)	3	2	0.0281	0.0232	0.0281	0.0232	0.0164	82.53%	0.0006	6.85%
732	Gondoic Acid (11c-20:1) (%) (w/w)	3	2	0.0250	0.0185	0.0250	0.0185	0.0131	73.99%	0.0001	6.97%
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (%) (w/w)	3									
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)	4									
742	Behenic Acid (22:0) (%) (w/w)	2	1	0.0070							
744	Erucic Acid (13c-22:1) (%) (w/w)	3									

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746	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%)	4									
748	Lignoceric Acid (24:0) (%) (w/w)	2	1	0.0095							
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%)	4									
752	Nervonic Acid (24:1) isomers (%) (w/w)	3									
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids (%) (w/w)	3	3	0.1037	0.0110	0.1037	0.0110	0.0063	10.58%	0.0013	5.63%
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (%) (w/w)	3	3	2.026	0.1281	2.026	0.1281	0.0740	6.33%	0.0237	3.60%
758	Total Saturated Fatty Acids (%) (w/w)	1	1	0.7250							
764	Total cis Monounsaturated Fatty Acids (%) (w/w)	1	1	0.9500							
768	Total cis Polyunsaturated Fatty Acids (%) (w/w)	1	1	1.985							
770	Total Fat (equivalent to NLEA) (%) (w/w)	1	1	3.850							
772	Total Fatty Acids (%) (w/w)	2	2	3.610	0.1058						

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.