



**AAFCO**  
Proficiency Testing Program



**Animal Feed Scheme**  
**Beef Feed, Medicated**  
**Test Material Code # 201927**

**Analyte Summary Report**

**# Labs Reporting: 197**  
**# Analytes Reported: 115**  
**Issue Date : 08/31/2019**

Analyte Group Code	Analyte and Method	Total # Tests Submitted	# Tests in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO PT ffp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Average Range (R-bar)	Horwitz %RSD
000	Urea (%)	1	1	0.4000							
001	Loss on Drying (%)	85	82	8.844	0.4387	8.872	0.3436	0.0474	3.87%	0.1093	2.88%
002	Protein, Crude (%)	193	187	17.90	1.091	17.93	0.3008	0.0275	1.68%	0.1423	2.36%
003	Fat, Crude (%)	151	149	3.303	0.5403	3.307	0.3905	0.0400	11.81%	0.1120	3.34%
004	Fiber, Crude (%)	120	118	11.98	1.093	11.91	0.8409	0.0968	7.06%	0.2469	2.75%
005	Ash (%)	142	140	12.29	0.8377	12.41	0.5285	0.0558	4.26%	0.1341	2.74%
006	Total Sugars (%)	5	5	3.391	0.6407	3.391	0.6407	0.2865	18.89%	0.2060	3.33%
008	Fiber, Acid Detergent (%)	61	59	16.06	1.311	16.01	1.300	0.2116	8.12%	0.3243	2.50%
009	Fiber, Neutral Detergent (%)	60	58	29.15	2.328	29.06	1.908	0.3131	6.57%	0.6185	1.86%
010	Moisture (%)	24	24	15.93	22.98	9.170	0.4548	0.1161	4.96%	0.1109	2.87%
011	Loss on Drying (%)	68	66	9.768	0.4488	9.788	0.4326	0.0666	4.42%	0.1413	2.84%
012	Starch (%)	39	38	16.53	1.828	16.51	1.447	0.2933	8.76%	0.2406	2.46%
013	Fat, Acid Pretreat (%)	47	46	4.436	0.7506	4.399	0.7525	0.1387	17.11%	0.2133	3.20%
015	Aluminum (mg / kg (ppm))	14	14	143.0	27.14	142.1	22.95	7.668	16.15%	4.554	7.59%
017	Boron (mg / kg (ppm))	18	16	11.31	1.497	11.29	1.627	0.5084	14.41%	0.5140	11.11%
019	Calcium (%)	137	135	2.914	0.1873	2.915	0.1648	0.0177	5.65%	0.0655	3.40%
021	Cobalt (mg / kg (ppm))	21	20	3.472	0.5311	3.501	0.5284	0.1477	15.09%	0.2057	13.25%
022	Copper (mg / kg (ppm))	97	96	75.22	13.72	75.22	12.68	1.618	16.86%	3.050	8.35%
025	Iron (mg / kg (ppm))	89	87	411.1	62.87	415.0	43.16	5.784	10.40%	16.72	6.46%
027	Magnesium (%)	96	95	0.4437	0.3813	0.4056	0.0211	0.0027	5.20%	0.0121	4.58%
028	Manganese (mg / kg (ppm))	96	93	199.3	23.25	199.9	15.70	2.035	7.85%	6.920	7.21%
031	Phosphorus (%)	130	128	0.7279	0.0431	0.7276	0.0364	0.0040	5.00%	0.0165	4.20%
032	Potassium (%)	95	94	0.9219	0.0793	0.9240	0.0740	0.0095	8.01%	0.0229	4.05%
033	Salt as chloride (%)	69	67	1.142	0.1100	1.160	0.0696	0.0106	6.00%	0.0220	3.91%
034	Selenium (mg / kg (ppm))	18	17	2.078	0.3855	2.121	0.2346	0.0711	11.06%	0.1254	14.28%
035	Sodium (%)	94	91	0.4384	0.0365	0.4389	0.0308	0.0040	7.03%	0.0118	4.53%
036	Sulfur (%)	40	39	0.3441	0.0406	0.3424	0.0241	0.0048	7.04%	0.0095	4.70%
037	Zinc (mg / kg (ppm))	96	94	371.6	49.49	376.4	30.05	3.874	7.98%	9.541	6.55%
038	Molybdenum (mg / kg (ppm))	17	16	2.070	0.4396	2.074	0.4796	0.1499	23.12%	0.1198	14.33%
040	Barium (mg / kg (ppm))	3	3	8.455	0.1608	8.455	0.1608	0.0929	1.90%	0.2629	11.60%

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041	Vanadium (mg / kg (ppm))	1	1	0.9400							
042	Chloride (%)	5	4	0.7178	0.0386	0.7178	0.0386	0.0193	5.38%	0.0300	4.20%
099	Menadione (form) (mg / kg (ppm))	1	1	10.80							
102	Niacin (mg / kg (ppm))	3	3	77.34	18.87	77.34	18.87	10.90	24.40%	5.157	8.31%
103	Pantothenic Acid (mg / kg (ppm))	2	2	13.31	0.6435						
104	Riboflavin (mg / kg (ppm))	4	3	10.36	1.637	10.36	1.637	0.9451	15.80%	0.1833	11.25%
105	Thiamine (mg / kg (ppm))	2	2	4.250	0.5728						
106	Vitamin A (KU / kg)	20	19	17.59	6.399	17.15	5.505	1.579	32.09%	2.368	
107	Vitamin B12 (µg / kg (ppb))	1	1	34.95							
108	Vitamin D3 (KU / kg)	4	4	5.023	2.087	5.023	2.087	1.044	41.55%	0.4360	
109	Vitamin E (IU / kg)	15	15	96.51	29.00	101.0	11.54	3.724	11.42%	5.402	
112	Pyridoxine (µg / g)	3	3	3.062	1.377	3.062	1.377	0.7948	44.97%	0.3233	
113	Folic Acid (mg / kg (ppm))	1	1	0.7470							
114	Biotin (mg / kg (ppm))	2	1	0.6250							
118	Peroxide value (meq/kg)	1	1	9.155							
120	Alanine (%)	30	30	0.9354	0.0559	0.9388	0.0377	0.0086	4.02%	0.0168	4.04%
121	Arginine (%)	29	28	1.069	0.0852	1.076	0.0569	0.0134	5.29%	0.0157	3.96%
122	Aspartic (%)	30	29	1.527	0.0694	1.522	0.0534	0.0124	3.51%	0.0198	3.75%
124	Cysteine/Cystine (%)	29	28	0.2830	0.0437	0.2827	0.0245	0.0058	8.68%	0.0074	4.84%
125	Glutamic (%)	30	29	2.920	0.1818	2.903	0.1326	0.0308	4.57%	0.0399	3.41%
126	Glycine (%)	30	28	0.8605	0.0362	0.8580	0.0199	0.0047	2.32%	0.0133	4.09%
127	Histidine (%)	30	29	0.4577	0.0390	0.4595	0.0311	0.0072	6.76%	0.0064	4.50%
128	Isoleucine (%)	30	29	0.6406	0.0506	0.6444	0.0410	0.0095	6.36%	0.0102	4.27%
129	Leucine (%)	30	29	1.353	0.0815	1.363	0.0303	0.0070	2.23%	0.0193	3.82%
130	L-Lysine (%)	30	30	0.8113	0.0580	0.8097	0.0451	0.0103	5.57%	0.0194	4.13%
131	Methionine (%)	30	28	0.2540	0.0351	0.2578	0.0198	0.0047	7.66%	0.0048	4.90%
132	Phenylalanine (%)	30	29	0.7763	0.0381	0.7775	0.0316	0.0073	4.06%	0.0112	4.15%
133	Proline (%)	29	28	1.036	0.0648	1.029	0.0497	0.0117	4.83%	0.0264	3.98%
134	Serine (%)	30	29	0.8496	0.0475	0.8506	0.0442	0.0103	5.19%	0.0203	4.10%
135	Threonine (%)	30	30	0.6563	0.0329	0.6526	0.0234	0.0053	3.59%	0.0121	4.27%
136	Tryptophan (%)	20	19	0.2131	0.0602	0.2031	0.0305	0.0087	15.02%	0.0049	5.08%
137	Tyrosine (%)	24	24	0.5442	0.0762	0.5406	0.0690	0.0176	12.76%	0.0119	4.39%
138	Valine (%)	30	29	0.8465	0.0687	0.8493	0.0529	0.0123	6.22%	0.0156	4.10%
139	Taurine (%)	4	2	0.0890	0.0509	0.0890	0.0509	0.0360	57.20%	0.0050	5.76%
160	Fructose (%)	3	3	0.3513	0.0931	0.3513	0.0931	0.0538	26.51%	0.0147	4.68%
161	Galactose (%)	1		0.0000							
162	Glucose (%)	3	3	0.3070	0.1603	0.3070	0.1603	0.0926	52.22%	0.0133	4.78%
163	Lactose (%)	3									
164	Maltose (%)	2	2	0.7758	0.2747						
165	Sucrose (%)	3	3	1.643	0.1116	1.643	0.1116	0.0644	6.80%	0.1343	3.71%

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166	Raffinose (%)	2	2	0.2618	0.0237						
167	Stachyose (%)	2	2	0.7763	0.1573						
351	Chlortetracycline (mg/kg (ppm))	21	19	61.47	11.60	59.51	7.908	2.268	13.29%	3.099	8.65%
354	Decoquinatate (mg/kg (ppm))	17	16	29.26	1.672	29.39	1.559	0.4871	5.30%	1.143	9.62%
361	Lasalocid Sodium (mg/kg (ppm))	22	22	52.50	6.886	51.79	5.777	1.540	11.16%	2.156	8.83%
365	Monensin (mg/kg (ppm))	2	2	3.278	0.0389						
382	Sulfamethazine (mg/kg (ppm))	9	9	72.73	25.93	72.73	29.40	12.25	40.42%	5.700	8.39%
400	Water Activity (Units)	9	9	0.5532	0.0207	0.5538	0.0221	0.0092	3.99%	0.0030	
412	Starch, Dietary (%)	1	1	15.07							
516	Arsenic, Total (mg / kg (ppm))	8	7	0.1919	0.0353	0.1912	0.0384	0.0181	20.07%	0.0085	20.52%
518	Cadmium (mg / kg (ppm))	9	8	0.0938	0.0104	0.0927	0.0091	0.0040	9.79%	0.0036	22.00%
520	Chromium (mg / kg (ppm))	12	11	14.24	5.132	14.24	5.820	2.194	40.87%	0.7643	10.73%
526	Lead (mg / kg (ppm))	8	6	0.1560	0.0319	0.1572	0.0334	0.0170	21.25%	0.0256	21.13%
529	Mercury (µg / kg (ppb))	1	1	21.50							
539	Nickel (mg / kg (ppm))	5	4	5.660	2.575	5.660	2.575	1.288	45.49%	0.1623	12.32%
702	Butyric Acid (4:0) (%)	1		0.0000							
704	Caproic Acid (6:0) (%)	1		0.0000							
706	Caprylic acid (8:0) (%) (w/w)	1		0.0000							
708	Capric acid (10:0) (%) (w/w)	1		0.0000							
710	Lauric Acid (12:0) (%) (w/w)	4	1								
714	Myristic Acid (14:0) (%) (w/w)	4	3	0.1001	0.1346	0.1001	0.1346	0.0777	134.42%	0.0169	
716	Palmitic Acid (16:0) (%) (w/w)	4	2	0.6990	0.0297	0.6990	0.0297	0.0210	4.25%	0.0151	
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	5	3	0.0281	0.0103	0.0281	0.0103	0.0059	36.51%	0.0013	
722	Stearic Acid (18:0) (%) (w/w)	4	3	0.1238	0.0203	0.1238	0.0203	0.0117	16.41%	0.0078	
724	Oleic Acid (9c-18:1) (%) (w/w)	4	3	0.9548	0.0430	0.9548	0.0430	0.0248	4.51%	0.0382	
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	5	4	1.660	0.1129	1.660	0.1129	0.0564	6.80%	0.0467	
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	5	4	0.1443	0.0297	0.1443	0.0297	0.0149	20.61%	0.0100	
730	Arachidic Acid (20:0) (%) (w/w)	4	3	0.1398	0.1955	0.1398	0.1955	0.1129	139.83%	0.0039	
732	Gondoic Acid (11c-20:1) (%) (w/w)	3	1								
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)	3	2	0.1223	0.1594	0.1223	0.1594	0.1127	130.37%	0.0053	
744	Erucic Acid (13c-22:1) (%) (w/w)	3	1								
746	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%) (w/w)	3									
748	Lignoceric Acid (24:0) (%) (w/w)	2	2	0.1373	0.1736						
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%) (w/w)	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	0.1583	0.0104	0.1583	0.0104	0.0060	6.57%	0.0033	
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (%) (w/w)	3	3	1.640	0.1447	1.640	0.1447	0.0835	8.82%	0.0600	

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758	Total Saturated Fatty Acids (% (w/w))	2	2	10.88	14.05						
762	Total Monounsaturated Fatty Acids (% (w/w))	2	2	14.96	19.71						
766	Total Polyunsaturated Fatty Acids (% (w/w))	2	2	25.42	33.55						
770	Total Fat (equivalent to NLEA) (% (w/w))	1	1	3.850							
772	Total Fatty Acids (% (w/w))	2	2	3.696	0.0220						

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.