



**AAFCO**  
Proficiency Testing Program



**Animal Feed Scheme**

**Beet Pulp**

**Test Material Code # 202027**

**Analyte Summary Report**

**# Labs Reporting: 175**

**# Analytes Reported: 105**

**Issue Date : 08/31/2020**

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 (%)	2	1	0.3000							
001	Loss on Drying (%)	79	77	7.860	0.5711	7.924	0.2914	0.0415	3.68%	0.1249	2.93%
002	Protein, Crude (%)	169	164	8.952	0.3574	8.916	0.1999	0.0195	2.24%	0.0874	2.88%
003	Fat, Crude (%)	135	130	0.7430	0.2663	0.7223	0.2279	0.0250	31.55%	0.0615	4.20%
004	Fiber, Crude (%)	115	112	16.33	0.9282	16.28	0.8049	0.0951	4.94%	0.2562	2.48%
005	Ash (%)	133	132	9.697	0.4304	9.733	0.3904	0.0425	4.01%	0.1325	2.84%
006	Total Sugars (%)	14	14	9.958	1.140	9.982	1.239	0.4140	12.42%	0.5201	2.83%
008	Fiber, Acid Detergent (%)	57	57	21.35	1.079	21.36	0.9821	0.1626	4.60%	0.2925	2.16%
009	Fiber, Neutral Detergent (%)	56	55	32.98	2.290	32.79	1.704	0.2873	5.20%	0.4349	1.75%
010	Moisture (%)	20	20	8.142	0.6947	8.152	0.6951	0.1943	8.53%	0.2485	2.92%
011	Loss on Drying (%)	68	66	8.741	0.4566	8.785	0.3129	0.0482	3.56%	0.1090	2.88%
012	Starch (%)	29	26	5.195	6.998	3.738	4.619	1.132	123.58%	0.2144	3.28%
013	Fat, Acid Pretreat (%)	44	42	2.335	0.9695	2.239	0.7531	0.1453	33.63%	0.2064	3.54%
015	Aluminum (ppm)	15	15	636.1	113.3	636.6	127.4	41.13	20.02%	22.38	6.05%
017	Boron (ppm)	19	18	42.14	2.581	42.08	2.801	0.8253	6.66%	1.400	9.11%
019	Calcium (%)	125	123	1.267	0.0840	1.264	0.0667	0.0075	5.28%	0.0321	3.86%
021	Cobalt (ppm)	17	17	12.30	3.119	12.81	2.209	0.6697	17.24%	0.5570	10.90%
022	Copper (ppm)	70	66	6.422	1.673	6.255	0.8869	0.1365	14.18%	0.3898	12.14%
025	Iron (ppm)	67	65	699.1	180.3	715.1	160.5	24.88	22.44%	21.44	5.95%
027	Magnesium (%)	101	100	0.1611	0.0609	0.1531	0.0090	0.0011	5.88%	0.0056	5.31%
028	Manganese (ppm)	75	73	55.36	3.570	55.48	3.371	0.4932	6.08%	1.228	8.74%
031	Phosphorus (%)	114	111	0.0923	0.0622	0.0823	0.0070	0.0008	8.48%	0.0056	5.82%
032	Potassium (%)	100	97	1.363	0.0832	1.362	0.0752	0.0095	5.53%	0.0295	3.82%
033	Salt as chloride (%)	48	47	0.3683	0.1959	0.3358	0.0326	0.0059	9.72%	0.0139	4.71%
034	Selenium (ppm)	13	9	0.2379	0.0987	0.2233	0.0735	0.0306	32.92%	0.0185	20.05%
035	Sodium (%)	99	97	0.4685	0.0412	0.4711	0.0285	0.0036	6.04%	0.0146	4.48%
036	Sulfur (%)	53	52	0.6440	0.0528	0.6426	0.0543	0.0094	8.45%	0.0226	4.28%
037	Zinc (ppm)	72	69	23.36	6.375	23.41	3.123	0.4700	13.34%	1.371	9.95%
038	Molybdenum (ppm)	15	14	1.284	0.3165	1.323	0.2471	0.0825	18.67%	0.0570	15.34%

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040	Barium (ppm)	2	2	47.71	2.093						
041	Vanadium (ppm)	2	2	1.528	0.1803						
042	Chloride (%)	2	2	0.2080	0.0113						
101	Choline Chloride (ppm)	1	1	941.5							
102	Niacin (ppm)	1	1	12.80							
103	Pantothenic Acid (ppm)	1		0.5500							
104	Riboflavin (ppm)	2	1	0.2750							
105	Thiamine (ppm)	2	2	0.0895	0.0347						
106	Vitamin A (KU / kg)	2	1	0.9475							
107	Vitamin B12 (ppb)	1	1	5.425							
108	Vitamin D3 (KU / kg)	1		0.0400							
109	Vitamin E (IU / kg)	3	3	12.27	2.806	12.27	2.806	1.620	22.87%	1.497	
111	Vitamin C, Phosphorylated (ppm)	1		4.400							
112	Pyridoxine (µg / g)	1	1	3.770							
113	Folic Acid (ppm)	1	1	0.1800							
114	Biotin (ppm)	1	1	0.0586							
115	Non Protein N (NPN) (%)	1	1	0.3850							
118	Peroxide value (meq/kg)	1	1	3.305							
120	Alanine (%)	24	24	0.3812	0.0280	0.3867	0.0175	0.0045	4.53%	0.0043	4.61%
121	Arginine (%)	24	23	0.3220	0.0258	0.3207	0.0245	0.0064	7.64%	0.0057	4.75%
122	Aspartic (%)	23	23	0.6643	0.0309	0.6639	0.0316	0.0082	4.77%	0.0105	4.25%
124	Cysteine/Cystine (%)	25	24	0.1066	0.0347	0.1088	0.0292	0.0074	26.82%	0.0034	5.58%
125	Glutamic (%)	24	23	1.078	0.0477	1.078	0.0519	0.0135	4.81%	0.0101	3.95%
126	Glycine (%)	24	24	0.3702	0.0198	0.3717	0.0179	0.0046	4.82%	0.0072	4.64%
127	Histidine (%)	24	24	0.2531	0.0198	0.2531	0.0174	0.0044	6.88%	0.0047	4.92%
128	Isoleucine (%)	24	24	0.3043	0.0282	0.3042	0.0266	0.0068	8.75%	0.0065	4.78%
129	Leucine (%)	24	23	0.4877	0.0340	0.4905	0.0320	0.0083	6.53%	0.0059	4.45%
130	L-Lysine (%)	24	23	0.4778	0.0352	0.4739	0.0221	0.0057	4.65%	0.0066	4.48%
131	Methionine (%)	25	25	0.1320	0.0407	0.1338	0.0192	0.0048	14.34%	0.0054	5.41%
132	Phenylalanine (%)	24	23	0.2851	0.0314	0.2848	0.0337	0.0088	11.85%	0.0063	4.83%
133	Proline (%)	23	22	0.3620	0.0546	0.3581	0.0413	0.0110	11.52%	0.0126	4.67%
134	Serine (%)	24	23	0.3928	0.0217	0.3938	0.0223	0.0058	5.66%	0.0065	4.60%
135	Threonine (%)	24	24	0.3672	0.0211	0.3693	0.0169	0.0043	4.58%	0.0061	4.65%
136	Tryptophan (%)	17	16	0.0876	0.0145	0.0887	0.0137	0.0043	15.46%	0.0018	5.76%
137	Tyrosine (%)	19	18	0.3140	0.0871	0.3334	0.0371	0.0109	11.13%	0.0079	4.72%
138	Valine (%)	24	24	0.4563	0.0459	0.4628	0.0290	0.0074	6.28%	0.0098	4.49%
139	Taurine (%)	4	2	0.0308	0.0385	0.0308	0.0385	0.0273	125.33%	0.0005	6.75%
160	Fructose (%)	2	1	0.1000							
162	Glucose (%)	3	1								
163	Lactose (%)	3									

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164	Maltose (%)	3									
165	Sucrose (%)	3	3	9.178	0.2580	9.178	0.2580	0.1490	2.81%	0.1900	2.87%
166	Raffinose (%)	1	1	0.3600							
167	Stachyose (%)	1		0.0500							
400	Water Activity (Units)	11	10	0.4941	0.0063	<b>0.4941</b>	0.0071	0.0028	1.44%	0.0043	
516	Arsenic, Total (ppm)	10	8	0.2021	0.0410	<b>0.1972</b>	0.0344	0.0152	17.46%	0.0166	20.42%
518	Cadmium (ppm)	11	10	0.1743	0.0688	<b>0.1931</b>	0.0347	0.0137	17.94%	0.0074	20.49%
520	Chromium (ppm)	11	11	22.73	8.684	<b>22.98</b>	9.289	3.501	40.43%	0.6761	9.98%
526	Lead (ppm)	10	9	1.596	3.611	<b>0.4076</b>	0.0826	0.0344	20.25%	0.0473	18.31%
529	Mercury (ppb)	3	2	12.34	17.41	12.34	17.41	12.31	141.09%	0.1070	22.00%
539	Nickel (ppm)	7	6	9.934	3.616	<b>10.39</b>	2.983	1.522	28.71%	0.1481	11.25%
710	Lauric Acid (12:0) (%) (w/w)	3	1								
714	Myristic Acid (14:0) (%) (w/w)	2	1	0.0050							
716	Palmitic Acid (16:0) (%) (w/w)	2	2	0.2958	0.0421						
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	2	2	0.0060	0.0050						
722	Stearic Acid (18:0) (%) (w/w)	2	1	0.0050							
724	Oleic Acid (9c-18:1) (%) (w/w)	2	2	0.0955	0.0177						
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	3	3	0.4677	0.0223	0.4677	0.0223	0.0129	4.76%	0.0047	4.48%
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	3	3	0.0593	0.0055	0.0593	0.0055	0.0032	9.29%	0.0007	6.12%
730	Arachidic Acid (20:0) (%) (w/w)	2	1	0.0035							
732	Gondoic Acid (11c-20:1) (%) (w/w)	2	1	0.0040							
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (%) (w/w)	1	1	0.0070							
740	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5) (%) (w/w)	2		0.0000							
742	Behenic Acid (22:0) (%) (w/w)	2	1	0.0085							
744	Erucic Acid (13c-22:1) (%) (w/w)	1		0.0050							
746	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%) (w/w)	2		0.0000							
748	Lignoceric Acid (24:0) (%) (w/w)	1	1	0.0155							
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%) (w/w)	2		0.0000							
752	Nervonic Acid (24:1) isomers (%) (w/w)	1		0.0050							
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids (%) (w/w)	2	2	0.0690	0.0127						
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (%) (w/w)	2	2	0.5008	0.0060						
758	Total Saturated Fatty Acids (%) (w/w)	1	1	0.4030							
762	Total Monounsaturated Fatty Acids (%) (w/w)	1	1	0.1500							
766	Total Polyunsaturated Fatty Acids (%) (w/w)	1	1	0.5810							
770	Total Fat (equivalent to NLEA) (%) (w/w)	1	1	1.211							
772	Total Fatty Acids (%) (w/w)	2	2	1.025	0.1831						

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.

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