



**Animal Feed Scheme**  
**Cattle Feed, Medicated**  
**Test Material Code # 202024**

## Analyte Summary Report

**# Labs Reporting: 164**  
**# Analytes Reported: 124**  
**Issue Date : 05/31/2020**

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	0.8000							
001	Loss on Drying (%)	70	68	8.902	0.3776	8.954	0.2406	0.0365	2.69%	0.0943	2.88%
002	Protein, Crude (%)	159	156	19.77	0.5363	19.73	0.3342	0.0335	1.69%	0.1527	2.25%
003	Fat, Crude (%)	127	123	4.046	0.2927	4.028	0.2707	0.0305	6.72%	0.0981	3.24%
004	Fiber, Crude (%)	106	103	14.47	1.255	14.34	0.8380	0.1032	5.84%	0.2307	2.64%
005	Ash (%)	120	116	8.486	0.4396	8.507	0.2943	0.0342	3.46%	0.0743	2.90%
006	Total Sugars (%)	3	3	4.599	0.7290	4.599	0.7290	0.4209	15.85%	0.0783	3.18%
008	Fiber, Acid Detergent (%)	53	51	18.97	1.086	18.94	1.061	0.1857	5.60%	0.2776	2.30%
009	Fiber, Neutral Detergent (%)	51	49	34.79	2.326	34.95	1.587	0.2833	4.54%	0.3428	1.69%
010	Moisture (%)	21	20	9.149	0.6709	9.112	0.6096	0.1704	6.69%	0.0747	2.87%
011	Loss on Drying (%)	62	60	9.812	0.5277	9.844	0.4978	0.0803	5.06%	0.1019	2.84%
012	Starch (%)	40	38	11.07	1.126	11.02	1.109	0.2248	10.06%	0.2931	2.79%
013	Fat, Acid Pretreat (%)	46	45	5.153	0.7451	5.207	0.6097	0.1136	11.71%	0.2343	3.12%
015	Aluminum (ppm)	17	17	124.1	36.76	121.8	20.27	6.147	16.65%	4.302	7.77%
017	Boron (ppm)	19	18	9.406	1.244	9.153	0.6780	0.1998	7.41%	0.4146	11.46%
019	Calcium (%)	119	116	1.507	0.1013	1.512	0.0868	0.0101	5.74%	0.0318	3.76%
021	Cobalt (ppm)	24	23	3.009	0.4234	3.016	0.4179	0.1089	13.85%	0.1515	13.55%
022	Copper (ppm)	85	83	61.63	5.397	61.29	4.809	0.6598	7.85%	2.288	8.61%
024	Iodine (ppm)	1	1	6.240							
025	Iron (ppm)	72	71	389.5	72.59	400.3	46.30	6.868	11.57%	13.14	6.49%
027	Magnesium (%)	80	78	0.3805	0.0387	0.3794	0.0211	0.0030	5.55%	0.0098	4.63%
028	Manganese (ppm)	84	82	224.8	27.47	227.8	15.71	2.169	6.90%	6.684	7.07%
031	Phosphorus (%)	113	109	0.9101	0.0631	0.9137	0.0457	0.0055	5.00%	0.0170	4.05%
032	Potassium (%)	84	81	1.137	0.1319	1.150	0.0624	0.0087	5.43%	0.0193	3.92%
033	Salt as chloride (%)	61	59	0.6387	0.0723	0.6431	0.0558	0.0091	8.67%	0.0190	4.27%
034	Selenium (ppm)	27	26	2.653	1.064	2.583	0.8907	0.2183	34.49%	0.1407	13.87%
035	Sodium (%)	81	80	0.2985	0.0583	0.2926	0.0210	0.0029	7.17%	0.0085	4.81%
036	Sulfur (%)	42	42	0.6293	0.0670	0.6352	0.0525	0.0101	8.26%	0.0177	4.28%
037	Zinc (ppm)	86	86	368.3	27.86	367.2	24.23	3.266	6.60%	14.07	6.58%

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038	Molybdenum (ppm)	18	17	1.310	0.3309	1.257	0.2349	0.0712	18.68%	0.0647	15.46%
040	Barium (ppm)	2	2	15.38	0.7180						
041	Vanadium (ppm)	1	1	1.125							
042	Chloride (%)	4	4	0.3856	0.0145	0.3856	0.0145	0.0073	3.76%	0.0103	4.62%
101	Choline Chloride (ppm)	1	1	1,650							
102	Niacin (ppm)	1	1	69.25							
103	Pantothenic Acid (ppm)	1	1	10.55							
104	Riboflavin (ppm)	3	3	3.853	2.861	3.853	2.861	1.652	74.25%	0.3800	13.06%
105	Thiamine (ppm)	2	2	3.310	0.9334						
106	Vitamin A (KU / kg)	21	20	37.94	9.012	37.80	9.933	2.776	26.28%	2.612	
107	Vitamin B12 (ppb)	1	1	5.305							
108	Vitamin D3 (KU / kg)	4	4	5.620	1.404	5.620	1.404	0.7021	24.98%	0.6450	
109	Vitamin E (IU / kg)	13	13	137.0	18.93	136.6	20.45	7.089	14.97%	6.274	
111	Vitamin C, Phosphorylated (ppm)	1		4.400							
112	Pyridoxine (µg / g)	1	1	3.310							
113	Folic Acid (ppm)	1	1	1.165							
114	Biotin (ppm)	1	1	0.2595							
115	Non Protein N (NPN) (%)	1	1	4.080							
118	Peroxide value (meq/kg)	1	1	1.015							
120	Alanine (%)	27	26	0.9539	0.0540	0.9532	0.0336	0.0082	3.52%	0.0214	4.03%
121	Arginine (%)	27	27	1.249	0.0854	1.248	0.0657	0.0158	5.26%	0.0309	3.87%
122	Aspartic (%)	27	26	1.417	0.0872	1.414	0.0552	0.0135	3.91%	0.0241	3.80%
124	Cysteine/Cystine (%)	27	26	0.3366	0.0440	0.3336	0.0292	0.0072	8.77%	0.0077	4.72%
125	Glutamic (%)	27	27	3.327	0.2089	3.305	0.1536	0.0369	4.65%	0.0616	3.34%
126	Glycine (%)	27	26	0.8685	0.1159	0.8775	0.0364	0.0089	4.14%	0.0162	4.08%
127	Histidine (%)	27	26	0.4854	0.0618	0.4872	0.0254	0.0062	5.22%	0.0105	4.46%
128	Isoleucine (%)	27	27	0.6020	0.0452	0.5995	0.0451	0.0108	7.52%	0.0177	4.32%
129	Leucine (%)	27	26	1.401	0.0669	1.405	0.0675	0.0165	4.80%	0.0329	3.80%
130	L-Lysine (%)	30	30	0.7396	0.0554	0.7355	0.0424	0.0097	5.77%	0.0226	4.19%
131	Methionine (%)	30	29	0.2973	0.0374	0.2964	0.0270	0.0063	9.10%	0.0087	4.80%
132	Phenylalanine (%)	27	26	0.8250	0.0531	0.8242	0.0491	0.0120	5.96%	0.0197	4.12%
133	Proline (%)	26	25	1.118	0.1437	1.132	0.0662	0.0166	5.85%	0.0388	3.93%
134	Serine (%)	27	26	0.8520	0.0492	0.8502	0.0458	0.0112	5.38%	0.0260	4.10%
135	Threonine (%)	27	26	0.6359	0.0358	0.6354	0.0223	0.0055	3.51%	0.0137	4.28%
136	Tryptophan (%)	18	18	0.2307	0.0782	0.2250	0.0190	0.0056	8.46%	0.0053	5.01%
137	Tyrosine (%)	21	21	0.6262	0.1966	0.5904	0.0886	0.0242	15.00%	0.0188	4.33%
138	Valine (%)	27	27	0.8101	0.0897	0.8218	0.0490	0.0118	5.96%	0.0173	4.12%
139	Taurine (%)	5	3	0.0348	0.0166	0.0348	0.0166	0.0096	47.66%	0.0003	6.63%
160	Fructose (%)	2	2	0.1968	0.1390						
161	Galactose (%)	1		0.0000							

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162	Glucose (%)	2	2	0.1983	0.0237						
163	Lactose (%)	2		0.0000							
164	Maltose (%)	2	1	0.1835							
165	Sucrose (%)	2	2	1.122	0.2097						
166	Raffinose (%)	2	1	0.6900							
167	Stachyose (%)	2	1	0.1750							
348	Bacitracin (ppm)	1		1.000							
351	Chlortetracycline (ppm)	8	7	0.9094	0.7694	<b>0.7885</b>	0.5667	0.2677	71.86%	0.0772	16.58%
354	Decoquinatate (ppm)	14	13	35.35	5.949	<b>34.88</b>	3.874	1.343	11.11%	1.172	9.37%
355	Erythromycin (ppm)	1		0.5000							
365	Monensin (ppm)	21	20	32.27	5.957	<b>32.78</b>	4.740	1.325	14.46%	1.085	9.46%
373	Oxytetracycline (ppm)	1		1.000							
374	Penicillin (ppm)	1		0.2500							
382	Sulfamethazine (ppm)	5	3	0.0485	0.0008	0.0485	0.0008	0.0004	1.57%	0.0010	22.00%
386	Tiamulin (ppm)	3	2	0.1755	0.0997	0.1755	0.0997	0.0705	56.84%	0.0732	20.79%
388	Tylosin (ppm)	1		0.5000							
389	Virginiamycin (ppm)	1		0.1000							
400	Water Activity (Units)	12	11	0.5297	0.0446	<b>0.5307</b>	0.0248	0.0094	4.68%	0.0041	
516	Arsenic, Total (ppm)	13	10	0.2501	0.3105	<b>0.1568</b>	0.0279	0.0110	17.83%	0.0072	21.14%
518	Cadmium (ppm)	14	11	0.1266	0.0085	<b>0.1266</b>	0.0094	0.0036	7.45%	0.0030	21.83%
520	Chromium (ppm)	12	11	3.280	1.837	<b>3.280</b>	2.083	0.7851	63.51%	0.1626	13.38%
526	Lead (ppm)	13	10	0.1455	0.0232	<b>0.1489</b>	0.0171	0.0068	11.48%	0.0189	21.31%
529	Mercury (ppb)	5	1								
539	Nickel (ppm)	8	8	2.093	0.5410	<b>2.077</b>	0.5775	0.2552	27.80%	0.0565	14.33%
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	1	0.0050							
708	Capric acid (10:0) (%) (w/w)	1	1	0.0060							
710	Lauric Acid (12:0) (%) (w/w)	3	1								
714	Myristic Acid (14:0) (%) (w/w)	4	3	0.0142	0.0036	0.0142	0.0036	0.0020	25.05%	0.0003	7.59%
716	Palmitic Acid (16:0) (%) (w/w)	4	3	0.8233	0.0606	0.8233	0.0606	0.0350	7.36%	0.0127	4.12%
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	3	3	0.0180	0.0052	0.0180	0.0052	0.0030	28.89%	0.0000	7.32%
720	Margaric acid (17:0) (%) (w/w)	1	1	0.0089							
722	Stearic Acid (18:0) (%) (w/w)	4	3	0.1260	0.0143	0.1260	0.0143	0.0083	11.36%	0.0027	5.46%
724	Oleic Acid (9c-18:1) (%) (w/w)	4	3	0.9885	0.0793	0.9885	0.0793	0.0458	8.02%	0.0430	4.01%
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	4	4	2.317	0.2015	2.317	0.2015	0.1008	8.70%	0.0338	3.52%
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	4	3	0.1297	0.0106	0.1297	0.0106	0.0061	8.17%	0.0000	5.44%
730	Arachidic Acid (20:0) (%) (w/w)	4	2	0.0223	0.0110	0.0223	0.0110	0.0077	49.26%	0.0005	7.09%
732	Gondoic Acid (11c-20:1) (%) (w/w)	4	3	0.0237	0.0072	0.0237	0.0072	0.0042	30.50%	0.0007	7.03%
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (%) (w/w)	1		0.0000							

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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))	2		0.0000							
742	Behenic Acid (22:0) (% (w/w))	2	1	0.0115							
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))	2		0.0000							
748	Lignoceric Acid (24:0) (% (w/w))	1	1	0.0130							
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))	2		0.0000							
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids (% (w/w))	1	1	0.1250							
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (% (w/w))	1	1	2.120							
758	Total Saturated Fatty Acids (% (w/w))	2	2	1.025	0.0502						
762	Total Monounsaturated Fatty Acids (% (w/w))	2	2	1.064	0.0131						
766	Total Polyunsaturated Fatty Acids (% (w/w))	2	2	2.434	0.2531						
770	Total Fat (equivalent to NLEA) (% (w/w))	1	1	4.595							
772	Total Fatty Acids (% (w/w))	3	3	4.442	0.2134	4.442	0.2134	0.1232	4.80%	0.1773	3.20%

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.