



**Animal Feed Scheme**

**Horse Feed**

**Test Material Code # 202022**

**Analyte Summary Report**

**# Labs Reporting: 177**

**# Analytes Reported: 126**

**Issue Date : 03/31/2020**

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 (%)	1	1	0.3500							
001	Loss on Drying (%)	78	77	9.227	1.136	9.396	0.2712	0.0386	2.89%	0.0852	2.85%
002	Protein, Crude (%)	176	173	12.61	0.6053	12.55	0.2648	0.0252	2.11%	0.1327	2.73%
003	Fat, Crude (%)	134	131	4.019	0.5023	3.973	0.3626	0.0396	9.13%	0.0936	3.25%
004	Fiber, Crude (%)	112	110	13.07	1.588	13.15	0.8062	0.0961	6.13%	0.2583	2.71%
005	Ash (%)	136	133	13.67	0.7204	13.72	0.2871	0.0311	2.09%	0.1438	2.70%
006	Total Sugars (%)	4	4	5.045	0.4846	5.045	0.4846	0.2423	9.60%	0.1293	3.14%
008	Fiber, Acid Detergent (%)	58	57	17.79	2.644	18.07	1.955	0.3237	10.82%	0.3220	2.35%
009	Fiber, Neutral Detergent (%)	56	54	30.36	1.631	30.19	1.420	0.2416	4.70%	0.4326	1.82%
010	Moisture (%)	19	16	9.614	0.5810	9.573	0.5094	0.1592	5.32%	0.1048	2.85%
011	Loss on Drying (%)	67	65	10.20	0.5830	10.21	0.5013	0.0777	4.91%	0.1025	2.82%
012	Starch (%)	39	38	19.51	3.368	19.08	1.835	0.3721	9.62%	0.3980	2.29%
013	Fat, Acid Pretreat (%)	48	47	4.961	0.6389	4.955	0.6594	0.1202	13.31%	0.2178	3.14%
015	Aluminum (ppm)	19	18	165.5	37.15	169.6	28.62	8.431	16.87%	9.091	7.39%
017	Boron (ppm)	20	18	4.393	1.914	4.221	1.079	0.3178	25.56%	0.5334	12.88%
019	Calcium (%)	135	131	2.182	0.1585	2.179	0.1272	0.0139	5.84%	0.0611	3.56%
021	Cobalt (ppm)	25	25	4.841	1.501	4.671	0.8845	0.2211	18.94%	0.2509	12.68%
022	Copper (ppm)	93	91	118.9	30.69	121.7	27.16	3.560	22.32%	4.936	7.77%
024	Iodine (ppm)	3	3	5.177	0.3075	5.177	0.3075	0.1775	5.94%	0.4563	12.49%
025	Iron (ppm)	85	83	637.8	148.2	657.8	100.1	13.74	15.22%	20.58	6.02%
027	Magnesium (%)	102	99	0.3760	0.0257	0.3746	0.0172	0.0022	4.59%	0.0099	4.64%
028	Manganese (ppm)	91	88	407.2	33.86	406.9	33.57	4.473	8.25%	10.12	6.48%
031	Phosphorus (%)	130	128	1.157	0.0915	1.160	0.0594	0.0066	5.12%	0.0334	3.91%
032	Potassium (%)	98	96	0.8522	0.0710	0.8500	0.0580	0.0074	6.83%	0.0214	4.10%
033	Salt as chloride (%)	68	66	2.034	0.2006	2.067	0.1011	0.0156	4.89%	0.0197	3.59%
034	Selenium (ppm)	28	26	2.034	0.5362	2.004	0.5327	0.1306	26.58%	0.1513	14.41%
035	Sodium (%)	88	85	0.7073	0.0553	0.7046	0.0415	0.0056	5.89%	0.0186	4.22%
036	Sulfur (%)	41	40	0.3834	0.0283	0.3842	0.0262	0.0052	6.83%	0.0121	4.62%
037	Zinc (ppm)	94	91	490.3	75.29	493.7	69.18	9.064	14.01%	18.02	6.29%

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038	Molybdenum (ppm)	19	18	1.547	0.3096	1.548	0.3481	0.1026	22.48%	0.0604	14.98%
040	Barium (ppm)	2	2	9.946	0.6567						
041	Vanadium (ppm)	1	1	1.640							
042	Chloride (%)	2	2	1.355	0.0856						
101	Choline Chloride (ppm)	2	2	876.0	500.6						
102	Niacin (ppm)	3	3	32.47	27.34	32.47	27.34	15.79	84.22%	1.670	9.47%
103	Pantothenic Acid (ppm)	3	3	30.97	23.17	30.97	23.17	13.38	74.82%	3.347	9.54%
104	Riboflavin (ppm)	5	5	4.564	2.185	4.564	2.185	0.9769	47.86%	0.5640	12.73%
105	Thiamine (ppm)	3	3	11.77	2.208	11.77	2.208	1.275	18.76%	0.7433	11.04%
106	Vitamin A (KU / kg)	22	22	33.29	9.890	33.09	10.78	2.872	32.57%	4.397	
107	Vitamin B12 (ppb)	2	2	26.68	18.84						
108	Vitamin D3 (KU / kg)	7	7	4.233	1.744	4.307	1.806	0.8533	41.93%	0.2857	
109	Vitamin E (IU / kg)	21	20	268.3	46.86	261.9	36.89	10.31	14.09%	9.182	
111	Vitamin C, Phosphorylated (ppm)	1		0.6000							
112	Pyridoxine (µg / g)	2	2	2.110	1.803						
113	Folic Acid (ppm)	3	3	1.355	0.3375	1.355	0.3375	0.1949	24.91%	0.1567	15.28%
114	Biotin (ppm)	4	4	10.63	4.892	10.63	4.892	2.446	46.01%	0.5496	11.21%
115	Non Protein N (NPN) (%)	1	1	0.5500							
118	Peroxide value (meq/kg)	1	1	4.845							
120	Alanine (%)	30	29	0.6660	0.0372	0.6695	0.0294	0.0068	4.39%	0.0129	4.25%
121	Arginine (%)	30	29	0.6532	0.0799	0.6658	0.0387	0.0090	5.81%	0.0180	4.25%
122	Aspartic (%)	29	29	0.9179	0.0656	0.9094	0.0329	0.0076	3.62%	0.0164	4.06%
124	Cysteine/Cystine (%)	30	30	0.2244	0.0457	0.2291	0.0265	0.0061	11.59%	0.0097	4.99%
125	Glutamic (%)	30	29	2.086	0.2543	2.111	0.1078	0.0250	5.11%	0.0475	3.57%
126	Glycine (%)	30	29	0.5365	0.0480	0.5405	0.0304	0.0071	5.63%	0.0124	4.39%
127	Histidine (%)	30	29	0.2982	0.0373	0.2988	0.0214	0.0050	7.16%	0.0073	4.80%
128	Isoleucine (%)	30	29	0.3810	0.0434	0.3862	0.0317	0.0073	8.20%	0.0113	4.62%
129	Leucine (%)	30	30	0.9533	0.0954	0.9724	0.0354	0.0081	3.64%	0.0212	4.02%
130	L-Lysine (%)	37	36	0.5217	0.1062	0.5411	0.0362	0.0075	6.70%	0.0130	4.39%
131	Methionine (%)	30	29	0.1982	0.0310	0.2028	0.0187	0.0043	9.22%	0.0089	5.09%
132	Phenylalanine (%)	30	30	0.5113	0.0946	0.5162	0.0255	0.0058	4.93%	0.0146	4.42%
133	Proline (%)	29	28	0.8055	0.0998	0.8154	0.0557	0.0131	6.83%	0.0206	4.12%
134	Serine (%)	30	30	0.5352	0.0599	0.5365	0.0365	0.0083	6.81%	0.0126	4.39%
135	Threonine (%)	30	29	0.4030	0.0437	0.4082	0.0224	0.0052	5.49%	0.0109	4.58%
136	Tryptophan (%)	19	18	0.1436	0.0387	0.1400	0.0188	0.0055	13.45%	0.0047	5.38%
137	Tyrosine (%)	23	22	0.3384	0.0749	0.3405	0.0518	0.0138	15.22%	0.0106	4.70%
138	Valine (%)	30	29	0.5328	0.0670	0.5423	0.0436	0.0101	8.04%	0.0181	4.39%
139	Taurine (%)	4	3	0.0650	0.0666	0.0650	0.0666	0.0385	102.46%	0.0033	6.03%
160	Fructose (%)	4	3	0.4322	0.0213	0.4322	0.0213	0.0123	4.93%	0.0190	4.54%
161	Galactose (%)	1		0.0000							

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162	Glucose (%)	4	3	0.2825	0.0266	0.2825	0.0266	0.0153	9.40%	0.0090	4.84%
163	Lactose (%)	3	1								
164	Maltose (%)	2	1	0.2435							
165	Sucrose (%)	4	3	2.345	0.1434	2.345	0.1434	0.0828	6.11%	0.0670	3.52%
166	Raffinose (%)	3	3	0.2693	0.0628	0.2693	0.0628	0.0362	23.31%	0.0107	4.87%
167	Stachyose (%)	3	2	0.1253	0.0902	0.1253	0.0902	0.0638	71.98%	0.0095	5.47%
314	Semduramicin Sodium (ppm)	1		0.1000							
317	Maduramicin (ppm)	1		0.1000							
351	Chlortetracycline (ppm)	5	5	2.393	0.9458	2.393	0.9458	0.4230	39.53%	0.1709	14.03%
355	Erythromycin (ppm)	1		0.1000							
361	Lasalocid Sodium (ppm)	1		0.1000							
363	Lincomycin (ppm)	1		0.1000							
365	Monensin (ppm)	16	16	2.117	0.2170	2.115	0.2210	0.0691	10.45%	0.1917	14.29%
370	Novobiocin (ppm)	1		0.3000							
373	Oxytetracycline (ppm)	5	3	1.843	0.4964	1.843	0.4964	0.2866	26.93%	0.3230	14.59%
379	Salinomycin (ppm)	1		0.1000							
382	Sulfamethazine (ppm)	3	2	2.010	0.0781	2.010	0.0781	0.0553	3.89%	0.0465	14.40%
388	Tylosin (ppm)	5	3	0.3583	0.1304	0.3583	0.1304	0.0753	36.40%	0.0680	18.67%
389	Virginiamycin (ppm)	1		0.1000							
391	Narasin (ppm)	1		0.1000							
400	Water Activity (Units)	11	10	0.5378	0.0154	0.5378	0.0175	0.0069	3.25%	0.0056	
516	Arsenic, Total (ppm)	11	9	0.3674	0.0724	0.3674	0.0821	0.0342	22.35%	0.0182	18.60%
518	Cadmium (ppm)	12	11	0.1280	0.0688	0.1106	0.0191	0.0072	17.31%	0.0047	22.00%
520	Chromium (ppm)	11	11	10.14	5.959	10.14	6.757	2.547	66.65%	0.3570	11.29%
526	Lead (ppm)	13	12	0.2763	0.0456	0.2819	0.0363	0.0131	12.88%	0.0308	19.35%
529	Mercury (ppb)	5	3	7.886	7.922	7.886	7.922	4.574	100.45%	2.050	22.00%
539	Nickel (ppm)	7	7	5.753	1.706	5.848	1.712	0.8086	29.27%	0.2231	12.26%
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)	3	2	0.0185	0.0078	0.0185	0.0078	0.0055	42.05%	0.0020	7.29%
716	Palmitic Acid (16:0) (%) (w/w)	3	3	0.7588	0.0533	0.7588	0.0533	0.0308	7.03%	0.0083	4.17%
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	4	3	0.0250	0.0059	0.0250	0.0059	0.0034	23.56%	0.0020	6.97%
722	Stearic Acid (18:0) (%) (w/w)	3	3	0.1450	0.0206	0.1450	0.0206	0.0119	14.21%	0.0013	5.35%
724	Oleic Acid (9c-18:1) (%) (w/w)	3	3	1.145	0.0524	1.145	0.0524	0.0302	4.57%	0.0177	3.92%
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	4	3	1.897	0.0584	1.897	0.0584	0.0337	3.08%	0.0077	3.63%
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	4	3	0.1257	0.0045	0.1257	0.0045	0.0026	3.59%	0.0000	5.47%
730	Arachidic Acid (20:0) (%) (w/w)	3	2	0.0198	0.0103	0.0198	0.0103	0.0072	51.90%	0.0015	7.22%

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732	Gondoic Acid (11c-20:1) (% (w/w))	3	2	0.0250	0.0071	0.0250	0.0071	0.0050	28.28%	0.0000	6.97%
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (% (w/w))	2	1	0.0020							
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	0.0085							
744	Erucic Acid (13c-22:1) (% (w/w))	2		0.0000							
746	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%)	3									
748	Lignoceric Acid (24:0) (% (w/w))	1	1	0.0115							
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))	2	2	0.1325	0.0035						
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (% (w/w))	2	2	1.938	0.0177						
758	Total Saturated Fatty Acids (% (w/w))	1	1	1.025							
762	Total Monounsaturated Fatty Acids (% (w/w))	1	1	1.180							
766	Total Polyunsaturated Fatty Acids (% (w/w))	1	1	2.065							
770	Total Fat (equivalent to NLEA) (% (w/w))	1	1	4.490							
772	Total Fatty Acids (% (w/w))	2	2	4.148	0.2086						

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.