



**AAFCO**  
Association of American Feed Control Officials



**Animal Feed Scheme**  
**Deer Feed, Medicated**  
**Test Material Code # 202331**

**Analyte Summary Report**

**# Labs Reporting: 171**  
**# Analytes Reported: 124**  
**Issue Date : 12/31/2023**

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 (Rob R-bar)	Thompson Horwitz %RSD
000	Urea (%)	6	6	1.418	0.8147	1.418	0.9238	0.4714	65.17%	0.1283	3.80%
001	Loss on Drying (%)	75	73	9.229	0.4832	9.252	0.2889	0.0423	3.12%	0.0692	2.86%
002	Protein, Crude (%)	174	171	22.44	0.6494	22.47	0.3662	0.0350	1.63%	0.1722	2.11%
003	Fat, Crude (%)	146	144	3.662	0.7339	3.628	0.2735	0.0285	7.54%	0.1151	3.29%
004	Fiber, Crude (%)	125	121	11.32	1.096	11.23	0.7364	0.0837	6.56%	0.2194	2.78%
005	Ash (%)	140	138	9.348	0.9637	9.315	0.3998	0.0425	4.29%	0.1073	2.86%
006	Total Sugars (%)	4	3	4.964	0.7452	4.964	0.7452	0.4302	15.01%	0.1793	3.14%
008	Fiber, Acid Detergent (%)	64	63	15.32	1.977	15.54	1.039	0.1637	6.69%	0.3112	2.54%
009	Fiber, Neutral Detergent (%)	62	60	31.47	3.377	31.80	1.542	0.2489	4.85%	0.3084	1.77%
010	Moisture (%)	20	20	9.156	0.3771	9.150	0.4127	0.1153	4.51%	0.1054	2.87%
011	Loss on Drying, HT (%)	77	74	10.14	0.7126	10.16	0.4050	0.0589	3.99%	0.1134	2.82%
012	Starch (%)	47	47	13.09	4.696	12.72	1.901	0.3467	14.95%	0.2843	2.73%
013	Fat, Pretreat (%)	52	52	4.703	0.7289	4.739	0.7060	0.1224	14.90%	0.1495	3.16%
015	Aluminum (ppm)	17	16	135.7	26.26	135.7	29.78	9.307	21.95%	4.572	7.64%
017	Boron (ppm)	19	18	8.452	0.9937	8.384	0.9671	0.2849	11.53%	0.4407	11.62%
019	Calcium (%)	129	126	1.720	0.1084	1.719	0.1009	0.0112	5.87%	0.0452	3.69%
021	Cobalt (ppm)	21	21	3.272	0.4389	3.272	0.4977	0.1358	15.21%	0.0896	13.38%
022	Copper (ppm)	94	93	91.73	10.71	91.84	9.712	1.259	10.57%	3.543	8.10%
024	Iodine (ppm)	1	1	1.238							
025	Iron (ppm)	89	87	297.5	24.17	296.6	20.14	2.699	6.79%	7.670	6.79%
027	Magnesium (%)	93	92	0.3936	0.0246	0.3950	0.0228	0.0030	5.77%	0.0123	4.60%
028	Manganese (ppm)	90	86	391.7	29.22	392.7	23.58	3.178	6.00%	9.788	6.51%
030	Nitrate (%)	1	1	0.0008							
031	Phosphorus (%)	127	126	0.9925	0.0585	0.9937	0.0472	0.0053	4.75%	0.0182	4.00%
032	Potassium (%)	93	91	0.9822	0.0666	0.9828	0.0566	0.0074	5.76%	0.0208	4.01%
033	Salt as chloride (%)	67	65	0.5562	0.0877	0.5514	0.0498	0.0077	9.02%	0.0277	4.37%
034	Selenium, Total (Se) (ppm)	23	21	0.8933	0.3545	0.9152	0.3495	0.0953	38.19%	0.0525	16.21%
035	Sodium (%)	77	75	0.2306	0.0494	0.2205	0.0149	0.0021	6.74%	0.0098	5.02%
036	Sulfur (%)	51	51	0.3680	0.0292	0.3694	0.0264	0.0046	7.14%	0.0107	4.65%

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037	Zinc (ppm)	96	<b>94</b>	381.7	37.74	<b>381.3</b>	35.76	4.610	9.38%	14.20	6.54%
038	Molybdenum (ppm)	20	<b>19</b>	1.501	0.3074	<b>1.514</b>	0.3132	0.0898	20.68%	0.0711	15.03%
040	Barium (ppm)	1	1	12.10							
041	Vanadium (ppm)	1	1	1.536							
042	Chloride (%)	9	<b>9</b>	0.4428	0.2178	<b>0.3946</b>	0.1076	0.0448	27.28%	0.0197	4.60%
101	Choline Chloride (ppm)	1	1	2,445							
102	Niacin (ppm)	1	1	156.5							
103	Pantothenic Acid (ppm)	1	1	17.40							
104	Riboflavin (ppm)	2	2	4.510	1.492						
105	Thiamine (ppm)	2	2	10.30	4.487						
106	Vitamin A (KU / kg)	15	<b>14</b>	6.685	1.731	<b>6.599</b>	1.684	0.5626	25.52%	0.5417	
107	Vitamin B12 (ppb)	1	1	16.20							
108	Vitamin D3 (KU / kg)	1	1	3.100							
109	Vitamin E (IU / kg)	12	<b>12</b>	78.12	36.91	<b>71.70</b>	22.55	8.138	31.45%	4.280	
111	Vitamin C, Phosphorylated (ppm)	2		0.1000							
112	Pyridoxine (µg / g)	1	1	5.350							
113	Folic Acid (ppm)	1	1	4.215							
114	Biotin (ppm)	2	2	0.8358	0.0173						
115	Non Protein N (NPN) (%)	6	<b>6</b>	1.070	0.6513	<b>1.003</b>	0.5752	0.2935	57.37%	0.0277	4.00%
120	Alanine (%)	33	<b>32</b>	1.021	0.0611	<b>1.026</b>	0.0542	0.0120	5.28%	0.0167	3.98%
121	Arginine (%)	33	<b>32</b>	1.215	0.0784	<b>1.218</b>	0.0727	0.0161	5.97%	0.0230	3.88%
122	Aspartic (%)	33	<b>32</b>	1.420	0.0882	<b>1.426</b>	0.0764	0.0169	5.36%	0.0252	3.79%
124	Cysteine/Cystine (%)	34	<b>32</b>	0.4069	0.0699	<b>0.4042</b>	0.0503	0.0111	12.43%	0.0101	4.58%
125	Glutamic (%)	33	<b>32</b>	3.491	0.2124	<b>3.503</b>	0.1730	0.0382	4.94%	0.0620	3.31%
126	Glycine (%)	33	<b>31</b>	1.016	0.0469	<b>1.017</b>	0.0479	0.0108	4.71%	0.0154	3.99%
127	Histidine (%)	33	<b>32</b>	0.5252	0.0384	<b>0.5215</b>	0.0336	0.0074	6.44%	0.0134	4.41%
128	Isoleucine (%)	32	<b>31</b>	0.6993	0.0553	<b>0.6985</b>	0.0445	0.0100	6.37%	0.0147	4.22%
129	Leucine (%)	33	<b>32</b>	1.441	0.0816	<b>1.444</b>	0.0740	0.0163	5.12%	0.0241	3.78%
130	L-Lysine (%)	38	<b>36</b>	0.9238	0.0575	<b>0.9202</b>	0.0543	0.0113	5.90%	0.0221	4.05%
131	Methionine (%)	35	<b>33</b>	0.3367	0.0500	<b>0.3382</b>	0.0417	0.0091	12.32%	0.0112	4.71%
132	Phenylalanine (%)	33	<b>32</b>	0.8193	0.0408	<b>0.8174</b>	0.0391	0.0086	4.79%	0.0158	4.12%
133	Proline (%)	32	<b>31</b>	1.277	0.1206	<b>1.271</b>	0.1066	0.0239	8.39%	0.0294	3.86%
134	Serine (%)	33	<b>32</b>	0.8832	0.0552	<b>0.8856</b>	0.0567	0.0125	6.40%	0.0161	4.07%
135	Threonine (%)	34	<b>33</b>	0.7422	0.0350	<b>0.7422</b>	0.0369	0.0080	4.97%	0.0131	4.18%
136	Tryptophan (%)	26	<b>26</b>	0.2735	0.0662	<b>0.2644</b>	0.0360	0.0088	13.62%	0.0066	4.89%
137	Tyrosine (%)	29	<b>28</b>	0.5671	0.0555	<b>0.5670</b>	0.0571	0.0135	10.07%	0.0166	4.36%
138	Valine (%)	33	<b>32</b>	0.9443	0.0831	<b>0.9453</b>	0.0575	0.0127	6.08%	0.0159	4.03%
139	Taurine (%)	9	4	0.0514	0.0192	0.0514	0.0192	0.0129	37.43%		6.25%
160	Fructose (%)	2	2	0.1675	0.0530						
161	Galactose (%)	1		0.0000							

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162	Glucose (%)	3	3	1.470	1.860	1.470	1.860	1.074	126.54%	0.1400	3.77%
163	Lactose (%)	2		0.0000							
164	Maltose (%)	2	2	0.1850	0.0636						
165	Sucrose (%)	2	2	2.418	0.2581						
166	Raffinose (%)	2	2	0.5925	0.1874						
167	Stachyose (%)	2	2	0.5400	0.2051						
345	Amprolium (ppm)	9	9	235.5	48.45	244.7	15.76	6.566	6.44%	8.124	6.99%
351	Chlortetracycline (ppm)	1		3.000							
354	Decoquinatate (ppm)	1		0.1000							
361	Lasalocid Sodium (ppm)	1		0.3000							
365	Monensin (ppm)	1		0.1000							
367	Nicarbazin (ppm)	1		0.1000							
386	Tiamulin (ppm)	1		1.000							
388	Tylosin (ppm)	1	1	2.050							
392	Fenbendazole (ppm)	1		1.000							
400	Water Activity (Units)	14	13	0.5565	0.0318	0.5573	0.0310	0.0107	5.56%	0.0057	
413	Starch, Resistant (%)	1	1	0.5500							
516	Arsenic, Total (As) (ppm)	7	5	0.2341	0.0145	0.2341	0.0145	0.0081	6.19%	0.0108	19.90%
518	Cadmium (ppm)	11	10	0.1544	0.0222	0.1507	0.0148	0.0058	9.80%	0.0069	21.27%
520	Chromium, Total (Cr) (ppm)	16	16	4.559	1.587	4.600	1.515	0.4735	32.94%	0.2946	12.71%
526	Lead (ppm)	9	5	0.1086	0.0100	0.1086	0.0100	0.0056	9.17%	0.0064	22.00%
529	Mercury (ppb)	4	1								
539	Nickel (ppm)	9	9	2.927	0.9357	2.927	1.061	0.4421	36.25%	0.0929	13.61%
702	Butyric Acid (4:0) (%)	1		0.0200							
704	Caproic Acid (6:0) (%)	1		0.0200							
706	Caprylic acid (8:0) (%) (w/w)	2		0.0200							
708	Capric acid (10:0) (%) (w/w)	2		0.0200							
710	Lauric Acid (12:0) (%) (w/w)	4									
714	Myristic Acid (14:0) (%) (w/w)	3	2	0.0604	0.0773	0.0604	0.0773	0.0547	128.07%		6.10%
716	Palmitic Acid (16:0) (%) (w/w)	3	3	5.134	7.877	5.134	7.877	4.548	153.42%	0.0176	3.13%
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	4	3	0.1202	0.1860	0.1202	0.1860	0.1074	154.70%	0.0051	5.50%
720	Margaric acid (17:0) (%) (w/w)	1		0.0200							
722	Stearic Acid (18:0) (%) (w/w)	3	3	0.6535	1.002	0.6535	1.002	0.5783	153.27%	0.0076	4.26%
724	Oleic Acid (9c-18:1) (%) (w/w)	3	3	8.046	12.48	8.046	12.48	7.207	155.14%	0.0883	2.92%
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	4	3	1.855	0.2497	1.855	0.2497	0.1442	13.47%	0.0222	3.64%
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	4	3	0.1399	0.0451	0.1399	0.0451	0.0261	32.26%	0.0024	5.38%
730	Arachidic Acid (20:0) (%) (w/w)	3	2	0.1740	0.2277	0.1740	0.2277	0.1610	130.89%	0.0053	5.20%
732	Gondoic Acid (11c-20:1) (%) (w/w)	2	1	0.0203							
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (%) (w/w)	2		0.0000							
740	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5) (%) (w/w)	4									

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742	Behenic Acid (22:0) (% (w/w))	3	2	0.1750	0.2334	0.1750	0.2334	0.1650	133.34%	0.0201	5.20%
744	Erucic Acid (13c-22:1) (% (w/w))	3	1								
746	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%)	4									
748	Lignoceric Acid (24:0) (% (w/w))	3	2	0.1612	0.2105	0.1612	0.2105	0.1488	130.58%	0.0101	5.26%
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%)	4									
752	Nervonic Acid (24:1) isomers (% (w/w))	2		0.0050							
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids (% (w/w))	2	2	0.1423	0.0746						
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (% (w/w))	2	2	1.760	0.2546						
758	Total Saturated Fatty Acids (% (w/w))	2	2	9.066	11.80						
762	Total Monounsaturated Fatty Acids (% (w/w))	1	1	23.64							
764	Total cis Monounsaturated Fatty Acids (% (w/w))	1	1	0.8345							
766	Total Polyunsaturated Fatty Acids (% (w/w))	1	1	54.27							
768	Total cis Polyunsaturated Fatty Acids (% (w/w))	1	1	1.672							
770	Total Fat (equivalent to NLEA) (% (w/w))	1	1	3.388							
772	Total Fatty Acids (% (w/w))	3	3	3.801	0.5315	3.801	0.5315	0.3069	13.98%	0.0215	3.27%

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.