



AAFCO
Association of American Feed Control Officials



Animal Feed Scheme
Dairy Calf Starter, Medicated
Test Material Code # 202231

Analyte Summary Report

Labs Reporting: 171
Analytes Reported: 110
Issue Date : 12/31/2022

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 (%)	7	7	5.166	2.749	5.166	3.118	1.473	60.36%	0.0657	3.12%
001	Loss on Drying (%)	78	76	9.477	0.5694	9.478	0.3486	0.0500	3.68%	0.1353	2.85%
002	Protein, Crude (%)	169	168	24.03	0.7578	24.09	0.3490	0.0337	1.45%	0.1733	2.04%
003	Fat, Crude (%)	139	137	3.707	0.3439	3.700	0.2690	0.0287	7.27%	0.1099	3.28%
004	Fiber, Crude (%)	115	113	5.893	0.6057	5.846	0.4626	0.0544	7.91%	0.1584	3.07%
005	Ash (%)	137	134	7.143	0.4555	7.106	0.2703	0.0292	3.80%	0.0829	2.98%
006	Total Sugars (%)	13	13	5.230	0.9917	5.247	1.090	0.3778	20.77%	0.1340	3.12%
008	Fiber, Acid Detergent (%)	62	61	8.144	0.6149	8.175	0.5355	0.0857	6.55%	0.2530	2.92%
009	Fiber, Neutral Detergent (%)	59	58	19.31	1.081	19.22	0.9892	0.1624	5.15%	0.4110	2.28%
010	Moisture (%)	16	15	9.424	0.5121	9.499	0.3690	0.1191	3.88%	0.0934	2.85%
011	Loss on Drying, HT (%)	70	67	10.69	0.6730	10.71	0.5253	0.0802	4.91%	0.1480	2.80%
012	Starch (%)	41	40	29.17	2.587	29.34	1.490	0.2945	5.08%	0.5433	1.85%
013	Fat, Acid Pretreat (%)	49	48	4.514	0.7488	4.546	0.6688	0.1207	14.71%	0.2318	3.18%
015	Aluminum (ppm)	15	14	86.06	20.34	85.69	21.83	7.294	25.48%	1.786	8.19%
017	Boron (ppm)	18	16	7.656	0.9110	7.572	0.8145	0.2545	10.76%	0.4365	11.80%
019	Calcium (%)	125	122	1.187	0.0737	1.184	0.0580	0.0066	4.90%	0.0244	3.90%
021	Cobalt (ppm)	20	20	1.458	0.3035	1.465	0.3144	0.0879	21.47%	0.0760	15.10%
022	Copper (ppm)	86	84	23.06	3.885	23.34	2.504	0.3415	10.72%	0.9015	9.96%
025	Iron (ppm)	82	80	227.1	20.01	227.1	18.38	2.569	8.10%	5.830	7.07%
027	Magnesium (%)	89	87	0.3063	0.0204	0.3061	0.0144	0.0019	4.71%	0.0064	4.78%
028	Manganese (ppm)	87	85	128.1	9.616	128.3	7.933	1.076	6.18%	4.158	7.70%
030	Nitrate (%)	1	1	0.0042							
031	Phosphorus (%)	122	121	0.7104	0.0505	0.7054	0.0330	0.0037	4.68%	0.0164	4.22%
032	Potassium (%)	88	87	1.038	0.0757	1.040	0.0528	0.0071	5.07%	0.0252	3.98%
033	Salt as chloride (%)	64	63	0.8127	0.0884	0.8034	0.0410	0.0065	5.10%	0.0131	4.13%
034	Selenium, Total (Se) (ppm)	21	19	0.6865	0.3477	0.5954	0.1425	0.0409	23.93%	0.0328	17.30%
035	Sodium (%)	87	85	0.3651	0.0335	0.3662	0.0197	0.0027	5.39%	0.0098	4.65%
036	Sulfur (%)	47	46	0.3212	0.0214	0.3216	0.0230	0.0042	7.16%	0.0114	4.74%
037	Zinc (ppm)	89	87	156.6	13.12	157.1	12.03	1.612	7.66%	4.556	7.47%

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038	Molybdenum (ppm)	21	21	2.052	0.2310	2.042	0.2085	0.0569	10.21%	0.1367	14.37%
040	Barium (ppm)	1	1	9.895							
041	Vanadium (ppm)	2	2	0.5446	0.0595						
042	Chloride (%)	8	8	0.5116	0.0611	0.5074	0.0593	0.0262	11.69%	0.0113	4.43%
099	Menadione (form) (ppm)	1	1	1.145							
101	Choline Chloride (ppm)	2	2	1,595	176.8						
102	Niacin (ppm)	2	2	79.28	24.43						
103	Pantothenic Acid (ppm)	2	2	39.55	0.5657						
104	Riboflavin (ppm)	4	4	13.77	1.518	13.77	1.518	0.7589	11.02%	0.2725	10.78%
105	Thiamine (ppm)	3	3	3.377	0.9652	3.377	0.9652	0.5573	28.58%	0.1400	13.32%
106	Vitamin A (KU / kg)	12	11	13.70	4.532	13.43	4.522	1.704	33.67%	1.810	
107	Vitamin B12 (ppb)	1	1	9.150							
108	Vitamin D3 (KU / kg)	5	4	3.228	0.2988	3.228	0.2988	0.1494	9.26%	0.3100	
109	Vitamin E (IU / kg)	12	11	112.9	16.87	112.9	19.13	7.209	16.94%	17.52	
111	Vitamin C, Phosphorylated (ppm)	1		11.40							
112	Pyridoxine (µg / g)	3	3	3.080	1.696	3.080	1.696	0.9794	55.08%	0.1533	13.51%
113	Folic Acid (ppm)	2	2	1.340	0.1839						
114	Biotin (ppm)	1	1	0.5805							
115	Non Protein N (NPN) (%)	8	8	2.033	2.131	1.402	0.5271	0.2329	37.59%	0.0441	3.80%
118	Peroxide value (meq/kg)	1	1	5.430							
120	Alanine (%)	28	28	0.8259	0.0576	0.8244	0.0563	0.0133	6.83%	0.0091	4.12%
121	Arginine (%)	28	27	1.235	0.0444	1.235	0.0462	0.0111	3.74%	0.0184	3.87%
122	Aspartic (%)	28	28	1.455	0.0800	1.464	0.0587	0.0139	4.01%	0.0197	3.78%
124	Cysteine/Cystine (%)	29	28	0.3070	0.0348	0.3046	0.0247	0.0058	8.12%	0.0048	4.78%
125	Glutamic (%)	28	28	3.096	0.1520	3.100	0.1308	0.0309	4.22%	0.0414	3.37%
126	Glycine (%)	28	27	0.7529	0.0415	0.7490	0.0268	0.0064	3.58%	0.0086	4.18%
127	Histidine (%)	28	28	0.4300	0.0456	0.4334	0.0364	0.0086	8.41%	0.0068	4.54%
128	Isoleucine (%)	28	27	0.5793	0.0458	0.5836	0.0409	0.0098	7.00%	0.0112	4.34%
129	Leucine (%)	28	28	1.205	0.0554	1.207	0.0529	0.0125	4.38%	0.0213	3.89%
130	L-Lysine (%)	29	28	0.7145	0.0398	0.7147	0.0286	0.0067	4.00%	0.0118	4.21%
131	Methionine (%)	30	29	0.2492	0.0255	0.2508	0.0210	0.0049	8.37%	0.0081	4.93%
132	Phenylalanine (%)	28	27	0.7921	0.0425	0.7976	0.0349	0.0084	4.37%	0.0142	4.14%
133	Proline (%)	28	28	0.9144	0.0483	0.9202	0.0409	0.0097	4.45%	0.0202	4.05%
134	Serine (%)	28	27	0.7540	0.0589	0.7583	0.0570	0.0137	7.51%	0.0103	4.17%
135	Threonine (%)	29	29	0.5725	0.0364	0.5759	0.0318	0.0074	5.51%	0.0114	4.35%
136	Tryptophan (%)	18	18	0.2408	0.0454	0.2348	0.0348	0.0103	14.83%	0.0052	4.97%
137	Tyrosine (%)	25	25	0.5010	0.0617	0.5029	0.0649	0.0162	12.90%	0.0117	4.44%
138	Valine (%)	28	28	0.7591	0.0424	0.7623	0.0381	0.0090	5.00%	0.0155	4.17%
139	Taurine (%)	5	4	0.0960	0.0863	0.0960	0.0863	0.0432	89.92%	0.0000	5.69%
160	Fructose (%)	3	3	0.4533	0.0633	0.4533	0.0633	0.0366	13.97%	0.0267	4.51%

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161	Galactose (%)	1		0.0000							
162	Glucose (%)	4	3	0.3083	0.0252	0.3083	0.0252	0.0145	8.16%	0.0500	4.77%
163	Lactose (%)	3	1								
164	Maltose (%)	3	2	0.2900	0.1909	0.2900	0.1909	0.1350	65.83%	0.0500	4.82%
165	Sucrose (%)	3	3	2.398	0.1010	2.398	0.1010	0.0583	4.21%	0.0633	3.51%
166	Raffinose (%)	2	2	0.7000	0.1768						
167	Stachyose (%)	2	2	0.7600	0.0990						
351	Chlortetracycline (ppm)	6	4	4.524	1.536	4.524	1.536	0.9597	33.94%	0.1550	12.75%
354	Decoquinatate (ppm)	14	14	27.46	9.831	27.52	2.428	0.8113	8.82%	0.9186	9.71%
361	Lasalocid Sodium (ppm)	1		0.1000							
365	Monensin (ppm)	1		0.1000							
386	Tiamulin (ppm)	1	1	1.350							
388	Tylosin (ppm)	5	5	23.80	13.22	23.80	13.22	5.912	55.56%	2.567	9.93%
400	Water Activity (Units)	11	11	0.5523	0.0196	0.5498	0.0158	0.0060	2.88%	0.0057	
516	Arsenic, Total (As) (ppm)	7	5	0.0530	0.0141	0.0530	0.0141	0.0079	26.67%	0.0013	22.00%
518	Cadmium (ppm)	9	8	0.1018	0.0099	0.1018	0.0113	0.0050	11.06%	0.0029	22.00%
520	Chromium, Total (Cr) (ppm)	12	10	4.751	1.501	4.751	1.702	0.6726	35.82%	0.1358	12.65%
526	Lead (ppm)	9	6	0.0854	0.0132	0.0838	0.0109	0.0055	12.97%	0.0053	22.00%
529	Mercury (ppb)	4	2	1.045	0.1358	1.045	0.1358	0.0961	13.00%	0.0142	22.00%
539	Nickel (ppm)	8	7	3.252	0.8674	3.252	0.9836	0.4647	30.24%	0.0412	13.40%
710	Lauric Acid (12:0) (%) (w/w)	2		0.0050							
714	Myristic Acid (14:0) (%) (w/w)	1	1	0.0103							
716	Palmitic Acid (16:0) (%) (w/w)	1	1	0.7396							
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	2	2	0.0107	0.0010						
722	Stearic Acid (18:0) (%) (w/w)	1	1	0.1073							
724	Oleic Acid (9c-18:1) (%) (w/w)	1	1	0.9404							
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	2	2	2.140	0.0361						
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	2	2	0.1151	0.0023						
730	Arachidic Acid (20:0) (%) (w/w)	1	1	0.0139							
732	Gondoic Acid (11c-20:1) (%) (w/w)	1	1	0.0187							
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (%) (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)	1	1	0.0101							
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	0.0107							
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)	1	1	0.1100							
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (%) (w/w)	1	1	2.120							

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772	Total Fatty Acids (% (w/w))	1	1	4.150							

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.