



AAFCO
Proficiency Testing Program



Minerals Scheme

Cattle Feed

Test Material Code # 201953

Analyte Summary Report

Labs Reporting: 29

Analytes Reported: 16

Issue Date : 10/31/2019

Analyte Group Code	Analyte and Method	Total # Tests Submitted	# Tests in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	Horwitz ffp SD	Uncertainty (U) Robust	% RSD - Horwitz	Average Range (R-bar)	Horwitz %RSD
015	Aluminum (mg / kg (ppm))	15	15	1,222	347.5	1,292	70.31	41.22	5.44%	72.98	5.44%
017	Boron (mg / kg (ppm))	11	11	133.5	15.31	133.7	10.23	6.424	7.66%	5.700	7.66%
021	Cobalt (mg / kg (ppm))	18	18	22.82	2.059	22.74	2.273	0.6130	10.00%	1.061	10.00%
022	Copper (mg / kg (ppm))	27	27	816.7	173.9	842.3	48.89	22.64	5.80%	32.00	5.80%
023	Fluorine (mg / kg (ppm))	3	3	58.59	37.21	58.59	5.079	2.932	8.67%	8.297	8.67%
024	Iodine (mg / kg (ppm))	3	3	24.90	19.66	24.90	2.455	1.417	9.86%	1.750	9.86%
034	Selenium (mg / kg (ppm))	15	15	12.84	2.203	13.14	1.427	0.5134	10.86%	0.6240	10.86%
036	Sulfur (%)	16	16	0.8225	0.0467	0.8208	0.0338	0.0121	4.12%	0.0227	4.12%
038	Molybdenum (mg / kg (ppm))	17	17	4.063	0.8119	3.944	0.5132	0.1395	13.01%	0.3017	13.01%
041	Vanadium (mg / kg (ppm))	8	8	7.025	1.789	6.704	0.8054	0.5201	12.01%	0.3445	12.01%
516	Arsenic, Total (mg / kg (ppm))	21	21	10.33	2.482	10.51	1.180	0.4531	11.23%	0.6460	11.23%
518	Cadmium (mg / kg (ppm))	20	19	3.250	0.3801	3.255	0.4360	0.0920	13.39%	0.1611	13.39%
520	Chromium (mg / kg (ppm))	17	17	230.4	34.40	231.1	16.29	8.332	7.05%	8.892	7.05%
526	Lead (mg / kg (ppm))	22	22	25.51	4.363	26.23	2.566	0.6083	9.78%	1.569	9.78%
529	Mercury (µg / kg (ppb))	12	9	45.51	24.68	46.23	10.17	10.99	22.00%	4.224	22.00%
539	Nickel (mg / kg (ppm))	15	14	7.568	2.090	7.717	0.9077	0.6661	11.76%	0.5466	11.76%

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.