

AAFCO
Proficiency Testing Program



Mycotoxin Contaminants Scheme
All Analytes for Sample # 201962
Sheep Feed

Number of Labs Participating: 57
Issue Date: 05/31/2019

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO σ ffp
						D1	D2					
0027	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	11.4	12.4	Y	Y			-1.49	23.99	8.105
2199	600.14	Total Aflatoxin (ppb)	Vicam Aflatest	12	12	Y	Y			-1.48	23.99	8.105
2192	600.20	Total Aflatoxin (ppb)	LC	12.46	12.92	Y	Y			-1.39	23.99	8.105
0066	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl SC	14.27	16.21	Y	Y			-1.08	23.99	8.105
0674	600.10	Total Aflatoxin (ppb)	TLC	15.41	15.41	Y	Y			-1.06	23.99	8.105
2247	600.20	Total Aflatoxin (ppb)	LC	17.6	17.6	Y	Y			-0.79	23.99	8.105
0407	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl SC	16.7	20.226	Y	Y			-0.68	23.99	8.105
2050	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	17.6	20.9	Y	Y			-0.58	23.99	8.105
0004	600.14	Total Aflatoxin (ppb)	Vicam Aflatest	19	20	Y	Y			-0.55	23.99	8.105
0010	600.20	Total Aflatoxin (ppb)	LC	20	19	Y	Y			-0.55	23.99	8.105
2113	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	18	21.3	Y	Y			-0.54	23.99	8.105
0619	600.24	Total Aflatoxin (ppb)	LC-MS/MS	18.5	20.8	Y	Y			-0.54	23.99	8.105
0202	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	20.68	21.11	Y	Y			-0.38	23.99	8.105
2066	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	25	17	Y	Y			-0.37	23.99	8.105
2098	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	19.5	22.7	Y	Y			-0.36	23.99	8.105
2129	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	21.39	21.14	Y	Y			-0.34	23.99	8.105
2033	600.24	Total Aflatoxin (ppb)	LC-MS/MS	22	21.1	Y	Y			-0.30	23.99	8.105
0035	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl SC	23.43	21	Y	Y			-0.22	23.99	8.105
0590	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	23.9	21.2	Y	Y			-0.18	23.99	8.105
2096	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	24.8	21.9	Y	Y			-0.08	23.99	8.105
0226	600.20	Total Aflatoxin (ppb)	LC	26.28	21.68	Y	Y			0.00	23.99	8.105
0047	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	24.5	23.5	Y	Y			0.00	23.99	8.105
0034	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	24.75	24.55	Y	Y			0.08	23.99	8.105
0876	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	23	27.5	Y	Y			0.16	23.99	8.105
0208	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	26.4	24.2	Y	Y			0.16	23.99	8.105
2244	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	25.736	25.689	Y	Y			0.21	23.99	8.105
2244	600.20	Total Aflatoxin (ppb)	LC	24.926	26.542	Y	Y			0.22	23.99	8.105
2226	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	26.4	26.3	Y	Y			0.29	23.99	8.105
2022	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	26.11	27.11	Y	Y			0.32	23.99	8.105
0032	600.24	Total Aflatoxin (ppb)	LC-MS/MS	26.1	28.3	Y	Y			0.40	23.99	8.105
0297	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	26.7	27.9	Y	Y			0.41	23.99	8.105
0142	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	27.5	28.8	Y	Y			0.51	23.99	8.105

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO σ ffp
						D1	D2					
0563	600.20	Total Aflatoxin (ppb)	LC	27.03	30.8	Y	Y			0.61	23.99	8.105
0511	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	32.9	25.4	Y	Y			0.64	23.99	8.105
0870	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	30.4	28.8	Y	Y			0.69	23.99	8.105
0529	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	33.5	27.5	Y	Y			0.80	23.99	8.105
2169	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	31.3	30.4	Y	Y			0.85	23.99	8.105
2066	600.20	Total Aflatoxin (ppb)	LC	35.52	30.16	Y	Y			1.09	23.99	8.105
0098	600.21	Total Aflatoxin (ppb)	LC-PCD FI	34.76	31.97	Y	Y			1.16	23.99	8.105
0218	600.24	Total Aflatoxin (ppb)	LC-MS/MS	38.1	38	Y	Y			1.73	23.99	8.105
0554	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	43.1	49.5	Y	Y			2.75	23.99	8.105
0656	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	45.44	51.78	Y	Y			3.04	23.99	8.105
2192	601.20	AB1 (ppb)	LC	11.21	11.8	Y	Y			-1.56	24.3	8.208
2247	601.20	AB1 (ppb)	LC	15.54	15.97	Y	Y			-1.04	24.3	8.208
0870	601.23	AB1 (ppb)	LC-MS/MS	17.26	16.16	Y	Y			-0.93	24.3	8.208
2053	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	18.2	19	Y	Y			-0.69	24.3	8.208
0619	601.23	AB1 (ppb)	LC-MS/MS	18.1	19.9	Y	Y			-0.65	24.3	8.208
2033	601.23	AB1 (ppb)	LC-MS/MS	20.4	19.4	Y	Y			-0.54	24.3	8.208
0878	601.98	AB1 (ppb)	Other Rapid Test Kit	24.9	19	Y	Y			-0.29	24.3	8.208
0226	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	24.3	20.1	Y	Y			-0.26	24.3	8.208
2066	601.20	AB1 (ppb)	LC	24.99	20.91	Y	Y			-0.17	24.3	8.208
2239	601.98	AB1 (ppb)	Other Rapid Test Kit	23.4	22.8	Y	Y			-0.15	24.3	8.208
2244	601.20	AB1 (ppb)	LC	22.582	24.047	Y	Y			-0.12	24.3	8.208
2244	601.98	AB1 (ppb)	Other Rapid Test Kit	23.3	23.5	Y	Y			-0.11	24.3	8.208
0043	601.22	AB1 (ppb)	LC-MS	23.05	24.37	Y	Y			-0.07	24.3	8.208
2165	601.23	AB1 (ppb)	LC-MS/MS	22.9	24.7	Y	Y			-0.06	24.3	8.208
0028	601.23	AB1 (ppb)	LC-MS/MS	25.27	23.1	Y	Y			-0.01	24.3	8.208
0918	601.23	AB1 (ppb)	LC-MS/MS	24.1	25.1	Y	Y			0.04	24.3	8.208
0868	601.98	AB1 (ppb)	Other Rapid Test Kit	24.4	25.2	Y	Y			0.06	24.3	8.208
0868	601.21	AB1 (ppb)	LC-PCD FI	26.4	26.2	Y	Y			0.24	24.3	8.208
2207	601.23	AB1 (ppb)	LC-MS/MS	27	27	Y	Y			0.33	24.3	8.208
0032	601.23	AB1 (ppb)	LC-MS/MS	26.1	28.3	Y	Y			0.35	24.3	8.208
0563	601.20	AB1 (ppb)	LC	26.05	29.1	Y	Y			0.40	24.3	8.208
0098	601.21	AB1 (ppb)	LC-PCD FI	32.34	29.74	Y	Y			0.82	24.3	8.208
0910	601.21	AB1 (ppb)	LC-PCD FI	30.64	32.6	Y	Y			0.89	24.3	8.208
0964	601.23	AB1 (ppb)	LC-MS/MS	32.4	31.1	Y	Y			0.91	24.3	8.208
0218	601.23	AB1 (ppb)	LC-MS/MS	36.1	35.9	Y	Y			1.42	24.3	8.208
0553	601.23	AB1 (ppb)	LC-MS/MS	40.4	51.2	Y	Y			2.62	24.3	8.208
0619	602.23	AB2 (ppb)	LC-MS/MS	0.346	0.892	Y	Y			-1.69	1.599	0.581
2192	602.20	AB2 (ppb)	LC	0.73	0.69	Y	Y			-1.53	1.599	0.581
2066	602.20	AB2 (ppb)	LC	0.83	0.65	Y	Y			-1.48	1.599	0.581
0028	602.23	AB2 (ppb)	LC-MS/MS	0.92	0.998	Y	Y			-1.10	1.599	0.581
0563	602.20	AB2 (ppb)	LC	0.975	1.7	Y	Y			-0.45	1.599	0.581
2053	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	1.3	1.4	Y	Y			-0.43	1.599	0.581
0870	602.23	AB2 (ppb)	LC-MS/MS	1.46	1.46	Y	Y			-0.24	1.599	0.581

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2247	602.20	AB2 (ppb)	LC	1.45	1.48	Y	Y			-0.23	1.599	0.581
2244	602.20	AB2 (ppb)	LC	1.571	1.698	Y	Y			0.06	1.599	0.581
2033	602.23	AB2 (ppb)	LC-MS/MS	1.6	1.7	Y	Y			0.09	1.599	0.581
0226	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	1.8	1.5	Y	Y			0.09	1.599	0.581
0910	602.21	AB2 (ppb)	LC-PCD FI	1.88	2.18	Y	Y			0.74	1.599	0.581
0218	602.23	AB2 (ppb)	LC-MS/MS	2	2.1	Y	Y			0.78	1.599	0.581
0964	602.23	AB2 (ppb)	LC-MS/MS	2.6	1.5	Y	Y			0.78	1.599	0.581
0553	602.23	AB2 (ppb)	LC-MS/MS	1.74	2.41	Y	Y			0.82	1.599	0.581
0868	602.21	AB2 (ppb)	LC-PCD FI	2.06	2.13	Y	Y			0.85	1.599	0.581
0098	602.21	AB2 (ppb)	LC-PCD FI	2.42	2.23	Y	Y			1.25	1.599	0.581
2165	602.23	AB2 (ppb)	LC-MS/MS	2.79	3.82	Y	Y			2.94	1.599	0.581
0032	602.23	AB2 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				1.599	0.581
0918	602.23	AB2 (ppb)	LC-MS/MS			N	N	1	84.85%	NoZ	1.599	0.581
2207	602.23	AB2 (ppb)	LC-MS/MS			N	N	1	84.85%	NoZ	1.599	0.581
0910	603.21	AG1 (ppb)	LC-PCD FI	0.45	0.31	Y	Y			-0.95	0.59	0.22
2247	603.20	AG1 (ppb)	LC	0.6	0.58	Y	Y			0.00	0.59	0.22
0870	603.23	AG1 (ppb)	LC-MS/MS	0.6		Y	N	0.6	48.19%	0.05	0.59	0.22
0226	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI	0.8	0.8	Y	Y			0.95	0.59	0.22
2066	603.20	AG1 (ppb)	LC	6.52	5.95	Y	Y			25.61	0.59	0.22
0032	603.23	AG1 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				0.59	0.22
0619	603.23	AG1 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				0.59	0.22
0098	603.21	AG1 (ppb)	LC-PCD FI			N	N	15	0.00%	NoZ	0.59	0.22
0218	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	3.14%	NoZ	0.59	0.22
0553	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	3.14%	NoZ	0.59	0.22
0918	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	3.14%	NoZ	0.59	0.22
0964	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	3.14%	NoZ	0.59	0.22
2033	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	3.14%	NoZ	0.59	0.22
2165	603.23	AG1 (ppb)	LC-MS/MS			N	N	2	0.00%	NoZ	0.59	0.22
2207	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	3.14%	NoZ	0.59	0.22
2053	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI			N	N	0.1	98.69%	NoZ	0.59	0.22
2066	604.20	AG2 (ppb)	LC	3.18	2.65	Y	Y				ND	
2247	604.20	AG2 (ppb)	LC			N	N	0.025			ND	
0098	604.21	AG2 (ppb)	LC-PCD FI			N	N	5			ND	
0910	604.21	AG2 (ppb)	LC-PCD FI			N	N	0.01			ND	
0032	604.23	AG2 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				ND	
0218	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
0553	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
0619	604.23	AG2 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				ND	
0870	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
0918	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
0964	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
2033	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
2165	604.23	AG2 (ppb)	LC-MS/MS			N	N	2			ND	

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2207	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
0226	604.24	AG2 (ppb)	Vicam Aflatest, LC-FI	0.1	0.1	Y	Y				ND	
2053	604.24	AG2 (ppb)	Vicam Aflatest, LC-FI			N	N	0.1			ND	
0529	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	[1.8]	[2.3]	Y	Y			-3.34	2,181	652.1
0674	610.03	Deoxynivalenol (ppb)	Charm ROSA DON Quant	[2.4]	[2.4]	Y	Y			-3.34	2,181	652.1
2165	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1300	1250	Y	Y			-1.39	2,181	652.1
2169	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1500	1400	Y	Y			-1.12	2,181	652.1
0407	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1697	1788	Y	Y			-0.67	2,181	652.1
0028	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1585	1947	Y	Y			-0.64	2,181	652.1
0870	610.99	Deoxynivalenol (ppb)	Miscellaneous	1940	1700	Y	Y			-0.55	2,181	652.1
0032	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1790	1880	Y	Y			-0.53	2,181	652.1
2192	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1770	1910	Y	Y			-0.52	2,181	652.1
0027	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1800	1900	Y	Y			-0.51	2,181	652.1
2244	610.20	Deoxynivalenol (ppb)	LC	1858	1878.76	Y	Y			-0.48	2,181	652.1
2244	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1903.4	1882.8	Y	Y			-0.44	2,181	652.1
2129	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1848	1940	Y	Y			-0.44	2,181	652.1
0226	610.09	Deoxynivalenol (ppb)	Vicam DON-V	1900	1900	Y	Y			-0.43	2,181	652.1
0035	610.08	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON SC	2115	1742	Y	Y			-0.39	2,181	652.1
0878	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1930	2010	Y	Y			-0.32	2,181	652.1
0098	610.20	Deoxynivalenol (ppb)	LC	2000	2000	Y	Y			-0.28	2,181	652.1
0066	610.08	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON SC	2030	2033	Y	Y			-0.23	2,181	652.1
0868	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	2080	2000	Y	Y			-0.22	2,181	652.1
0218	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2030	2060	Y	Y			-0.21	2,181	652.1
0297	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2000	2100	Y	Y			-0.20	2,181	652.1
2113	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2000	2100	Y	Y			-0.20	2,181	652.1
0202	610.06	Deoxynivalenol (ppb)	r-Biopharm Ridascreen DON	2072.43	2156.98	Y	Y			-0.10	2,181	652.1
0590	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1980	2250	Y	Y			-0.10	2,181	652.1
2207	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2090	2180	Y	Y			-0.07	2,181	652.1
2066	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	2090	2270	Y	Y			0.00	2,181	652.1
0010	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2160	2210	Y	Y			0.01	2,181	652.1
0870	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2160	2260	Y	Y			0.04	2,181	652.1
0208	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2290	2170	Y	Y			0.07	2,181	652.1
0511	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2300	2200	Y	Y			0.11	2,181	652.1
2098	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2300	2200	Y	Y			0.11	2,181	652.1
0619	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2049	2462	Y	Y			0.11	2,181	652.1
0918	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2274.57	2263.68	Y	Y			0.13	2,181	652.1
2247	610.20	Deoxynivalenol (ppb)	LC	2311.08	2268.9	Y	Y			0.17	2,181	652.1
0868	610.20	Deoxynivalenol (ppb)	LC	2324	2322	Y	Y			0.22	2,181	652.1
2050	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	2300	2400	Y	Y			0.26	2,181	652.1
0047	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2600	2100	Y	Y			0.26	2,181	652.1
2033	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2450	2260	Y	Y			0.27	2,181	652.1
0638	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	2360	2360	Y	Y			0.27	2,181	652.1
2022	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2370	2370	Y	Y			0.29	2,181	652.1

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0553	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2475.9	2368.4	Y	Y			0.37	2,181	652.1
2155	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2600	2367	Y	Y			0.46	2,181	652.1
0910	610.20	Deoxynivalenol (ppb)	LC	2330	2660	Y	Y			0.48	2,181	652.1
0964	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2343.5	2689.3	Y	Y			0.51	2,181	652.1
0142	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	2400	2700	Y	Y			0.57	2,181	652.1
2239	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	2602	2568	Y	Y			0.62	2,181	652.1
0554	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2500	2800	Y	Y			0.72	2,181	652.1
0009	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	2830	2500	Y	Y			0.74	2,181	652.1
2053	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2560	2777	Y	Y			0.75	2,181	652.1
0563	610.25	Deoxynivalenol (ppb)	GC-MS	2689	2886	Y	Y			0.93	2,181	652.1
0870	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2900	2800	Y	Y			1.03	2,181	652.1
0674	620.05	Total Fumonisin (ppb)	Charm ROSA FUMQ MeOH	[2.5]	[2.5]	Y	Y			-3.44	6,151	1,788
0529	620.02	Total Fumonisin (ppb)	Neogen Veratox Fumonisin 5/10	[5.5]	[5.4]	Y	Y			-3.44	6,151	1,788
2226	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	[7.7]	[7.8]	Y	Y			-3.44	6,151	1,788
2244	620.23	Total Fumonisin (ppb)	LC-MS/MS	1500.147	1338.104	Y	Y			-2.65	6,151	1,788
0554	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	3700	4200	Y	Y			-1.23	6,151	1,788
0563	620.20	Total Fumonisin (ppb)	LC	4139	4673.3	Y	Y			-0.98	6,151	1,788
0511	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	5200	4800	Y	Y			-0.64	6,151	1,788
0656	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	4799.7	5251.3	Y	Y			-0.63	6,151	1,788
0142	620.98	Total Fumonisin (ppb)	Other Rapid Test Kit	5000	5200	Y	Y			-0.59	6,151	1,788
2022	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	5160	5160	Y	Y			-0.55	6,151	1,788
0619	620.23	Total Fumonisin (ppb)	LC-MS/MS	5619	4799	Y	Y			-0.53	6,151	1,788
0035	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	5856	5034	Y	Y			-0.39	6,151	1,788
0047	620.02	Total Fumonisin (ppb)	Neogen Veratox Fumonisin 5/10	5400	5500	Y	Y			-0.39	6,151	1,788
0010	620.23	Total Fumonisin (ppb)	LC-MS/MS	6000	5000	Y	Y			-0.36	6,151	1,788
0870	620.02	Total Fumonisin (ppb)	Neogen Veratox Fumonisin 5/10	5940	5780	Y	Y			-0.16	6,151	1,788
0027	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	5720	6160	Y	Y			-0.12	6,151	1,788
0407	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	5980	6015	Y	Y			-0.09	6,151	1,788
0202	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	6077.03	6289.31	Y	Y			0.02	6,151	1,788
0042	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	6400	6200	Y	Y			0.08	6,151	1,788
2239	620.98	Total Fumonisin (ppb)	Other Rapid Test Kit	6499	6456	Y	Y			0.18	6,151	1,788
2113	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	7400	5800	Y	Y			0.25	6,151	1,788
0032	620.23	Total Fumonisin (ppb)	LC-MS/MS	6630	6726	Y	Y			0.29	6,151	1,788
0098	620.11	Total Fumonisin (ppb)	Vicam Fumonitest	6700	6700	Y	Y			0.31	6,151	1,788
0208	620.20	Total Fumonisin (ppb)	LC	8600	5000	Y	Y			0.36	6,151	1,788
2098	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	7290	7290	Y	Y			0.64	6,151	1,788
0878	620.98	Total Fumonisin (ppb)	Other Rapid Test Kit	8220	7620	Y	Y			0.99	6,151	1,788
0066	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	7850	8420	Y	Y			1.11	6,151	1,788
2033	620.23	Total Fumonisin (ppb)	LC-MS/MS	8475	8089	Y	Y			1.19	6,151	1,788
2129	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	8333	8456	Y	Y			1.25	6,151	1,788
0868	620.07	Total Fumonisin (ppb)	Romer AgraQuant Total Fumonisin	8510	8530	Y	Y			1.33	6,151	1,788
2244	621.20	FB1 (ppb)	LC	1171.5	1045.968	Y	Y			-2.56	4,432	1,300
0043	621.22	FB1 (ppb)	LC-MS	2813	2863	Y	Y			-1.23	4,432	1,300

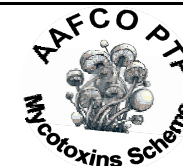
Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO σ ffp
						D1	D2					
2207	621.23	FB1 (ppb)	LC-MS/MS	3800	3500	Y	Y			-0.60	4,432	1,300
0964	621.23	FB1 (ppb)	LC-MS/MS	3454.4	4038.4	Y	Y			-0.53	4,432	1,300
0619	621.23	FB1 (ppb)	LC-MS/MS	4157	3631	Y	Y			-0.41	4,432	1,300
0870	621.23	FB1 (ppb)	LC-MS/MS	4600	4320	Y	Y			0.02	4,432	1,300
0218	621.23	FB1 (ppb)	LC-MS/MS	4110	4960	Y	Y			0.08	4,432	1,300
0032	621.23	FB1 (ppb)	LC-MS/MS	4800	4890	Y	Y			0.32	4,432	1,300
0098	621.20	FB1 (ppb)	LC	5300	5300	Y	Y			0.67	4,432	1,300
2053	621.22	FB1 (ppb)	LC-MS	5660	5330	Y	Y			0.82	4,432	1,300
2033	621.23	FB1 (ppb)	LC-MS/MS	5580	5530	Y	Y			0.86	4,432	1,300
0553	621.23	FB1 (ppb)	LC-MS/MS	9888.4	9016.3	Y	Y			3.86	4,432	1,300
2244	622.20	FB2 (ppb)	LC	328.647	292.1358	Y	Y			-2.53	1,332	403.5
0043	622.22	FB2 (ppb)	LC-MS	918.4	938.3	Y	Y			-1.00	1,332	403.5
0964	622.23	FB2 (ppb)	LC-MS/MS	1012.4	1318	Y	Y			-0.41	1,332	403.5
0870	622.23	FB2 (ppb)	LC-MS/MS	1160	1200	Y	Y			-0.38	1,332	403.5
2207	622.23	FB2 (ppb)	LC-MS/MS	1100	1300	Y	Y			-0.33	1,332	403.5
0218	622.23	FB2 (ppb)	LC-MS/MS	1200	1330	Y	Y			-0.16	1,332	403.5
0619	622.23	FB2 (ppb)	LC-MS/MS	1461	1168	Y	Y			-0.04	1,332	403.5
0032	622.23	FB2 (ppb)	LC-MS/MS	1320	1340	Y	Y			0.00	1,332	403.5
0098	622.20	FB2 (ppb)	LC	1400	1400	Y	Y			0.17	1,332	403.5
2053	622.22	FB2 (ppb)	LC-MS	1580	1590	Y	Y			0.63	1,332	403.5
2033	622.23	FB2 (ppb)	LC-MS/MS	2250	1970	Y	Y			1.93	1,332	403.5
0553	622.23	FB2 (ppb)	LC-MS/MS	3797.1	3622.7	Y	Y			5.89	1,332	403.5
0870	623.23	FB3 (ppb)	LC-MS/MS	440	440	Y	Y			-0.84	595.6	184.5
0032	623.23	FB3 (ppb)	LC-MS/MS	510	496	Y	Y			-0.50	595.6	184.5
2053	623.22	FB3 (ppb)	LC-MS	540	540	Y	Y			-0.30	595.6	184.5
2033	623.23	FB3 (ppb)	LC-MS/MS	645	589	Y	Y			0.12	595.6	184.5
0553	623.23	FB3 (ppb)	LC-MS/MS	903.8	895.2	Y	Y			1.65	595.6	184.5
0407	630.04	Ochratoxin A (ppb)	r-Biopharm Ridascreen Ochratoxin A	12.99	14.07	Y	Y			-2.70	107.9	34.99
2022	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	15.5	15.17	Y	Y			-2.64	107.9	34.99
0529	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	19	18.5	Y	Y			-2.55	107.9	34.99
2098	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	55.9	49.6	Y	Y			-1.58	107.9	34.99
2192	630.20	Ochratoxin A (ppb)	LC	47.71	58.09	Y	Y			-1.57	107.9	34.99
2033	630.23	Ochratoxin A (ppb)	LC-MS/MS	63	53	Y	Y			-1.43	107.9	34.99
2165	630.23	Ochratoxin A (ppb)	LC-MS/MS	63.8	54.5	Y	Y			-1.39	107.9	34.99
0066	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och A	57	61.49	Y	Y			-1.39	107.9	34.99
0674	630.20	Ochratoxin A (ppb)	LC	64	64	Y	Y			-1.25	107.9	34.99
0870	630.23	Ochratoxin A (ppb)	LC-MS/MS	86	93	Y	Y			-0.53	107.9	34.99
2244	630.20	Ochratoxin A (ppb)	LC	105.928	94.719	Y	Y			-0.22	107.9	34.99
2244	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	98.7	103.1	Y	Y			-0.20	107.9	34.99
0656	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och A	110.48	99.01	Y	Y			-0.09	107.9	34.99
0218	630.23	Ochratoxin A (ppb)	LC-MS/MS	110	110	Y	Y			0.06	107.9	34.99
0868	630.03	Ochratoxin A (ppb)	Romer AgraQuant Ochratoxin	111.06	113.48	Y	Y			0.13	107.9	34.99
0563	630.20	Ochratoxin A (ppb)	LC	113.2	114.5	Y	Y			0.17	107.9	34.99

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO σ ffp
						D1	D2					
0010	630.23	Ochratoxin A (ppb)	LC-MS/MS	110	120	Y	Y			0.20	107.9	34.99
0226	630.06	Ochratoxin A (ppb)	Vicam OchraTest	114.9	116.9	Y	Y			0.23	107.9	34.99
2247	630.20	Ochratoxin A (ppb)	LC	121.67	118.43	Y	Y			0.35	107.9	34.99
2239	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	118.6	122.3	Y	Y			0.36	107.9	34.99
0910	630.21	Ochratoxin A (ppb)	LC-PCD FI	114	127	Y	Y			0.36	107.9	34.99
2066	630.20	Ochratoxin A (ppb)	LC	125.6	117.1	Y	Y			0.39	107.9	34.99
0918	630.23	Ochratoxin A (ppb)	LC-MS/MS	125.9	128.6	Y	Y			0.55	107.9	34.99
2207	630.23	Ochratoxin A (ppb)	LC-MS/MS	123	135	Y	Y			0.60	107.9	34.99
0619	630.23	Ochratoxin A (ppb)	LC-MS/MS	126	140	Y	Y			0.72	107.9	34.99
0032	630.23	Ochratoxin A (ppb)	LC-MS/MS	140	130	Y	Y			0.78	107.9	34.99
2066	630.04	Ochratoxin A (ppb)	r-Biopharm Ridascreen Ochratoxin A	125.3	145.4	Y	Y			0.79	107.9	34.99
0964	630.23	Ochratoxin A (ppb)	LC-MS/MS	104.1	185.1	Y	Y			1.05	107.9	34.99
0870	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	153	148	Y	Y			1.22	107.9	34.99
0553	630.23	Ochratoxin A (ppb)	LC-MS/MS	159.3	174.7	Y	Y			1.69	107.9	34.99
0098	630.20	Ochratoxin A (ppb)	LC	206	179	Y	Y			2.42	107.9	34.99
0878	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	222	198	Y	Y			2.92	107.9	34.99
2053	630.23	Ochratoxin A (ppb)	LC-MS/MS	212	214	Y	Y			3.00	107.9	34.99
0964	640.23	T-2 (ppb)	LC-MS/MS	36.1	19.4	Y	Y			-2.14	91.58	29.84
0619	640.23	T-2 (ppb)	LC-MS/MS	34.3	38.8	Y	Y			-1.84	91.58	29.84
0910	640.21	T-2 (ppb)	LC-PCD FI	37.5	38.6	Y	Y			-1.79	91.58	29.84
0553	640.23	T-2 (ppb)	LC-MS/MS	37.3	40	Y	Y			-1.77	91.58	29.84
2033	640.23	T-2 (ppb)	LC-MS/MS	50	40	Y	Y			-1.56	91.58	29.84
0870	640.23	T-2 (ppb)	LC-MS/MS	57.52	45.48	Y	Y			-1.34	91.58	29.84
0918	640.23	T-2 (ppb)	LC-MS/MS	61.41	59.5	Y	Y			-1.04	91.58	29.84
0218	640.23	T-2 (ppb)	LC-MS/MS	57	65	Y	Y			-1.02	91.58	29.84
2053	640.23	T-2 (ppb)	LC-MS/MS	62	62.2	Y	Y			-0.99	91.58	29.84
2244	640.23	T-2 (ppb)	LC-MS/MS	59.766	69.262	Y	Y			-0.91	91.58	29.84
2239	640.98	T-2 (ppb)	Other Rapid Test Kit	72.5	71.6	Y	Y			-0.65	91.58	29.84
0868	640.03	T-2 (ppb)	Romer AgraQuant T-2	79.46	78.01	Y	Y			-0.43	91.58	29.84
0066	640.03	T-2 (ppb)	Romer AgraQuant T-2	83.87	87.25	Y	Y			-0.20	91.58	29.84
0563	640.25	T-2 (ppb)	GC-MS	109	115	Y	Y			0.68	91.58	29.84
0878	640.98	T-2 (ppb)	Other Rapid Test Kit	151	143	Y	Y			1.86	91.58	29.84
2129	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	165	145	Y	Y			2.13	91.58	29.84
0407	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	157.96	160.108	Y	Y			2.26	91.58	29.84
0202	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	172.8	165.7	Y	Y			2.60	91.58	29.84
0638	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	285	285	Y	Y			6.48	91.58	29.84
0656	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	383.35	374.8	Y	Y			9.64	91.58	29.84
2207	640.23	T-2 (ppb)	LC-MS/MS			N	N	60	85.50%	NoZ	91.58	29.84
0910	641.21	HT-2 (ppb)	LC post-col photochem der. FI	62	56	Y	Y			-1.19	96.08	31.26
2033	641.23	HT-2 (ppb)	LC-MS/MS	73.8	78.9	Y	Y			-0.63	96.08	31.26
0619	641.23	HT-2 (ppb)	LC-MS/MS	72.3	93.8	Y	Y			-0.42	96.08	31.26
0870	641.23	HT-2 (ppb)	LC-MS/MS	94.64	91.76	Y	Y			-0.09	96.08	31.26
2053	641.23	HT-2 (ppb)	LC-MS/MS	122	91.8	Y	Y			0.35	96.08	31.26

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO σ ffp
						D1	D2					
0218	641.23	HT-2 (ppb)	LC-MS/MS	111	117	Y	Y			0.57	96.08	31.26
2207	641.23	HT-2 (ppb)	LC-MS/MS	120	110	Y	Y			0.61	96.08	31.26
0964	641.23	HT-2 (ppb)	LC-MS/MS	115.1	127.2	Y	Y			0.80	96.08	31.26
2244	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	119.532	138.524	Y	Y			-0.87	179	57.27
0590	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	149	173	Y	Y			-0.31	179	57.27
2022	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	172.08	173.59	Y	Y			-0.11	179	57.27
0870	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	201.3	167.9	Y	Y			0.10	179	57.27
2098	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	182	209.5	Y	Y			0.29	179	57.27
2192	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	198.5	194.2	Y	Y			0.30	179	57.27
0529	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	172.1	227.2	Y	Y			0.36	179	57.27
0674	650.02	Zearalenone (ppb)	Charm ROSA Zearalenone Quant - MeOH	0.0009	0.0009	Y	Y			-3.18	335.6	105.6
2165	650.24	Zearalenone (ppb)	LC-MS/MS	27.3	27.7	Y	Y			-2.92	335.6	105.6
0035	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON SC	175.73	203.81	Y	Y			-1.38	335.6	105.6
0066	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON SC	180	208.6	Y	Y			-1.34	335.6	105.6
0563	650.20	Zearalenone (ppb)	LC	193.5	199.7	Y	Y			-1.32	335.6	105.6
0027	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	206.6	232.9	Y	Y			-1.10	335.6	105.6
0870	650.24	Zearalenone (ppb)	LC-MS/MS	224.3	237.04	Y	Y			-0.99	335.6	105.6
0202	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	232.08	235.58	Y	Y			-0.96	335.6	105.6
2192	650.20	Zearalenone (ppb)	LC	248.48	253.51	Y	Y			-0.80	335.6	105.6
0043	650.23	Zearalenone (ppb)	LC-MS	275.8	267.5	Y	Y			-0.61	335.6	105.6
2066	650.05	Zearalenone (ppb)	r-Biopharm Ridascreen Zearalenon	255	333	Y	Y			-0.39	335.6	105.6
0590	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	302	288	Y	Y			-0.38	335.6	105.6
0226	650.22	Zearalenone (ppb)	LC-FI, AOCS	300	300	Y	Y			-0.34	335.6	105.6
0619	650.24	Zearalenone (ppb)	LC-MS/MS	334	286	Y	Y			-0.24	335.6	105.6
0032	650.24	Zearalenone (ppb)	LC-MS/MS	313	311	Y	Y			-0.22	335.6	105.6
2239	650.98	Zearalenone (ppb)	Other Rapid Test Kit	315.8	309.5	Y	Y			-0.22	335.6	105.6
2207	650.24	Zearalenone (ppb)	LC-MS/MS	300	330	Y	Y			-0.20	335.6	105.6
2244	650.20	Zearalenone (ppb)	LC	314.202	324.672	Y	Y			-0.15	335.6	105.6
2244	650.98	Zearalenone (ppb)	Other Rapid Test Kit	314.202	324.672	Y	Y			-0.15	335.6	105.6
2098	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	339.7	321.2	Y	Y			-0.05	335.6	105.6
2033	650.24	Zearalenone (ppb)	LC-MS/MS	320	350	Y	Y			-0.01	335.6	105.6
0098	650.20	Zearalenone (ppb)	LC	330	360	Y	Y			0.09	335.6	105.6
0010	650.24	Zearalenone (ppb)	LC-MS/MS	350	350	Y	Y			0.14	335.6	105.6
0218	650.24	Zearalenone (ppb)	LC-MS/MS	346	356	Y	Y			0.15	335.6	105.6
0910	650.20	Zearalenone (ppb)	LC	401	313	Y	Y			0.20	335.6	105.6
0870	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	382.3	341.3	Y	Y			0.25	335.6	105.6
0051	650.21	Zearalenone (ppb)	LC-FI, ISO	360	368	Y	Y			0.27	335.6	105.6
2129	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	375	369	Y	Y			0.34	335.6	105.6
2247	650.20	Zearalenone (ppb)	LC	379.55	365.65	Y	Y			0.35	335.6	105.6
0918	650.24	Zearalenone (ppb)	LC-MS/MS	386.5	361.2	Y	Y			0.36	335.6	105.6
0868	650.98	Zearalenone (ppb)	Other Rapid Test Kit	378	371	Y	Y			0.37	335.6	105.6
0142	650.98	Zearalenone (ppb)	Other Rapid Test Kit	383.5	391.4	Y	Y			0.49	335.6	105.6
0868	650.20	Zearalenone (ppb)	LC	400	396	Y	Y			0.59	335.6	105.6

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO σ ffp
						D1	D2					
0964	650.24	Zearalenone (ppb)	LC-MS/MS	405.1	419.2	Y	Y			0.72	335.6	105.6
0656	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	393.47	433.56	Y	Y			0.74	335.6	105.6
2155	650.24	Zearalenone (ppb)	LC-MS/MS	414.9	439.2	Y	Y			0.87	335.6	105.6
0878	650.98	Zearalenone (ppb)	Other Rapid Test Kit	442	453	Y	Y			1.06	335.6	105.6
0407	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON SC	410.87	521.192	Y	Y			1.24	335.6	105.6
0529	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	459.5	477.5	Y	Y			1.26	335.6	105.6
2053	650.24	Zearalenone (ppb)	LC-MS/MS	497	509	Y	Y			1.59	335.6	105.6
0553	650.24	Zearalenone (ppb)	LC-MS/MS	553.9	567.8	Y	Y			2.13	335.6	105.6
2022	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	602.37	605.73	Y	Y			2.54	335.6	105.6

Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Notes: Z scored against Robust consensus. If < 6 results used in calculations or only 1 of 2 results detected Z is Grey and Probability of Detection is for the Non-Detect (see documentation). A Red NoZ indicates both results Not Detected with a Probability Of Detecting a single value. Where the Assigned Value is ND then the LOD follows as (LOD) in the Analyte units. An asterix on the Analyte name indicates Reference Lab Value used as Assigned Value and Z scores are calculated against the reference Lab. Results in square brackets not used in Robust calculations.



Analyte AV Report
Sample # 201962
Sheep Feed

Issue Date: 05/31/2019

Duplicate tests run: 342

Robust Summary

Number of Labs Participating: 57

Analyte		# Submitted	# Used for Robust AV	Raw Mean	Raw SD	Robust AV	Robust SD	Robust Uncertainty	Robust %RSD	AAFCO ffp %RSD
Code	Name									
600	Total Aflatoxin	42	42	23.46	5.928	23.99	6.458	1.246	26.9%	33.8%
601	AB1	26	26	23.92	5.433	24.3	5.693	1.396	23.4%	33.8%
602	AB2	18	18	1.541	0.5366	1.599	0.6517	0.192	40.8%	36.4%
603	AG1	4	4	0.59	0.21	0.59	0.21	0.1313	35.6%	37.4%
604	AG2	2	2							
610	Deoxynivalenol	49	49	2,189	306.2	2,181	325.1	58.06	14.9%	29.9%
620	Total Fumonisin	27	27	6,221	1,281	6,151	1,474	354.5	24.0%	29.1%
621	FB1	12	12	4,130	1,314	4,432	1,336	482.2	30.2%	29.3%
622	FB2	12	12	1,253	434.3	1,332	410.6	148.2	30.8%	30.3%
623	FB3	5	5	595.6	206.7	595.6	206.7	115.6	34.7%	31.0%
630	Ochratoxin A	33	33	107.2	50.41	107.9	47.87	10.42	44.4%	32.4%
640	T-2	20	20	92.06	65.04	91.58	61.39	17.16	67.0%	32.6%
641	HT-2	8	8	96.08	21.93	96.08	24.87	10.99	25.9%	32.5%
642	T-2 + HT-2	7	7	177	25.4	179	24.08	11.38	13.5%	32.0%
650	Zearalenone	42	42	345.2	93.87	335.6	97.51	18.81	29.1%	31.5%

Notes: Uncertainty in the Assigned Value is calculated as $1.25 * \text{Rob SD} / \sqrt{n \text{ used}}$. Double this value to expand uncertainty. Raw mean used for Robust AV when less than 6 labs used in calculations.