

Mycotoxin Proficiency Testing, Z Scored Against Robust Consensus

Number of Labs Participating: 53

Issue Date: 02/28/2019

All Tests for Sample # 201961: Beef Grower

Disclaimer: Z scores are provided for research and method development purposes only!

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO σ ffp
						D1	D2					
0529	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	6.5	8.6	Y	Y			-1.47	15.22	5.205
0032	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	12	10.9	Y	Y			-0.72	15.22	5.205
0554	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	13.6	15.11	Y	Y			-0.17	15.22	5.205
0511	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	15.4	14.8	Y	Y			-0.02	15.22	5.205
0208	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	14.9	16.6	Y	Y			0.10	15.22	5.205
0297	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	16.6	17.9	Y	Y			0.39	15.22	5.205
0034	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	19	17.6	Y	Y			0.59	15.22	5.205
0027	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	23.7	15.8	Y	Y			0.87	15.22	5.205
2096	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	19.7	19.8	Y	Y			0.87	15.22	5.205
2098	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	21	19.2	Y	Y			0.94	15.22	5.205
0876	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	21.95	19.45	Y	Y			1.05	15.22	5.205
2022	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	18.04	24.64	Y	Y			1.18	15.22	5.205
2147	600.04	Total Aflatoxin (ppb)	Charm ROSA Fast 5 Aflatoxin Quant	11	22	Y	Y			0.25	15.22	5.205
0202	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	11.563	12.183	Y	Y			-0.64	15.22	5.205
2129	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	11.39	13.197	Y	Y			-0.56	15.22	5.205
0590	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	15.9	13	Y	Y			-0.15	15.22	5.205
2066	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	16.34	20.92	Y	Y			0.66	15.22	5.205
0066	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl SC	9.05	10.9	Y	Y			-1.01	15.22	5.205
0035	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl SC	10.23	10.34	Y	Y			-0.95	15.22	5.205
0407	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl SC	12.43	13.032	Y	Y			-0.48	15.22	5.205
0004	600.14	Total Aflatoxin (ppb)	Vicam Aflatest	13	12	Y	Y			-0.52	15.22	5.205
0613	600.14	Total Aflatoxin (ppb)	Vicam Aflatest	26.7	24.54	Y	Y			2.00	15.22	5.205
2192	600.20	Total Aflatoxin (ppb)	LC	9.15	9.25	Y	Y			-1.16	15.22	5.205
2247	600.20	Total Aflatoxin (ppb)	LC	11.58	11.33	Y	Y			-0.72	15.22	5.205
0226	600.20	Total Aflatoxin (ppb)	LC	12.1	12.2	Y	Y			-0.59	15.22	5.205
2244	600.20	Total Aflatoxin (ppb)	LC	13.026	13.216	Y	Y			-0.40	15.22	5.205
0010	600.20	Total Aflatoxin (ppb)	LC	15	14	Y	Y			-0.14	15.22	5.205
2066	600.20	Total Aflatoxin (ppb)	LC	15	17.8	Y	Y			0.23	15.22	5.205
0563	600.20	Total Aflatoxin (ppb)	LC	17.53	18.9	Y	Y			0.58	15.22	5.205
0098	600.21	Total Aflatoxin (ppb)	LC-PCD FI	18.09	14.85	Y	Y			0.24	15.22	5.205
0619	600.24	Total Aflatoxin (ppb)	LC-MS/MS	10.8	11.8	Y	Y			-0.75	15.22	5.205
2033	600.24	Total Aflatoxin (ppb)	LC-MS/MS	11.3	13.7	Y	Y			-0.52	15.22	5.205
0160	600.24	Total Aflatoxin (ppb)	LC-MS/MS	11.3	15.2	Y	Y			-0.38	15.22	5.205
0001	600.24	Total Aflatoxin (ppb)	LC-MS/MS	13.2	14.5	Y	Y			-0.26	15.22	5.205

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO σ ffp
						D1	D2					
0218	600.24	Total Aflatoxin (ppb)	LC-MS/MS	21.7	22.1	Y	Y			1.28	15.22	5.205
0613	600.24	Total Aflatoxin (ppb)	LC-MS/MS	26.7	24.54	Y	Y			2.00	15.22	5.205
2050	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	10.9	10.6	Y	Y			-0.86	15.22	5.205
2244	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	13.157	14.326	Y	Y			-0.28	15.22	5.205
2169	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	14.9	14.5	Y	Y			-0.10	15.22	5.205
0142	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	15.8	17.3	Y	Y			0.26	15.22	5.205
0870	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	18.2	19.8	Y	Y			0.73	15.22	5.205
2066	601.20	AB1 (ppb)	LC	2.52	1.45	Y	Y			-2.55	15.54	5.312
2192	601.20	AB1 (ppb)	LC	7.81	7.85	Y	Y			-1.45	15.54	5.312
2247	601.20	AB1 (ppb)	LC	10.89	10.59	Y	Y			-0.90	15.54	5.312
2244	601.20	AB1 (ppb)	LC	11.639	11.804	Y	Y			-0.72	15.54	5.312
0563	601.20	AB1 (ppb)	LC	15.17	16.28	Y	Y			0.03	15.54	5.312
0098	601.21	AB1 (ppb)	LC-PCD FI	16.68	13.58	Y	Y			-0.08	15.54	5.312
0868	601.21	AB1 (ppb)	LC-PCD FI	20.7	17.2	Y	Y			0.64	15.54	5.312
0910	601.21	AB1 (ppb)	LC-PCD FI	23.9	28.51	Y	Y			2.01	15.54	5.312
0043	601.22	AB1 (ppb)	LC-MS	19.47	19.9	Y	Y			0.78	15.54	5.312
0028	601.23	AB1 (ppb)	LC-MS/MS	9.86	7.98	Y	Y			-1.25	15.54	5.312
0619	601.23	AB1 (ppb)	LC-MS/MS	10.8	11.8	Y	Y			-0.80	15.54	5.312
0870	601.23	AB1 (ppb)	LC-MS/MS	11.9	12.32	Y	Y			-0.65	15.54	5.312
2033	601.23	AB1 (ppb)	LC-MS/MS	11.3	13.7	Y	Y			-0.57	15.54	5.312
0918	601.23	AB1 (ppb)	LC-MS/MS	13.7	11.5	Y	Y			-0.55	15.54	5.312
0160	601.23	AB1 (ppb)	LC-MS/MS	11.3	14.1	Y	Y			-0.53	15.54	5.312
2207	601.23	AB1 (ppb)	LC-MS/MS	13	16	Y	Y			-0.20	15.54	5.312
0218	601.23	AB1 (ppb)	LC-MS/MS	20.5	20.8	Y	Y			0.96	15.54	5.312
0613	601.23	AB1 (ppb)	LC-MS/MS	25.2	23.54	Y	Y			1.66	15.54	5.312
0964	601.23	AB1 (ppb)	LC-MS/MS	27.47	28.155	Y	Y			2.31	15.54	5.312
0553	601.23	AB1 (ppb)	LC-MS/MS	33	40	Y	Y			3.95	15.54	5.312
0226	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	11.2	11.3	Y	Y			-0.81	15.54	5.312
2053	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	11	12.2	Y	Y			-0.74	15.54	5.312
0868	601.91	AB1 (ppb)	Romer AgraQuant Afl B1	17.3	17.6	Y	Y			0.36	15.54	5.312
2244	601.98	AB1 (ppb)	Other Rapid Test Kit	12.64	11.889	Y	Y			-0.62	15.54	5.312
0878	601.98	AB1 (ppb)	Other Rapid Test Kit	13.2	12	Y	Y			-0.55	15.54	5.312
2239	601.98	AB1 (ppb)	Other Rapid Test Kit	25.2	24.6	Y	Y			1.76	15.54	5.312
0009	601.99	AB1 (ppb)	Miscellaneous	18.633	17.869	Y	Y			0.51	15.54	5.312
2192	602.20	AB2 (ppb)	LC	0.64	0.63	Y	Y			-1.18	1.121	0.411
2247	602.20	AB2 (ppb)	LC	0.69	0.74	Y	Y			-0.99	1.121	0.411
2244	602.20	AB2 (ppb)	LC	0.93	0.957	Y	Y			-0.43	1.121	0.411
0563	602.20	AB2 (ppb)	LC	1.08	1.1	Y	Y			-0.08	1.121	0.411
2066	602.20	AB2 (ppb)	LC			N	N	0.14	99.14%	NoZ	1.121	0.411
0868	602.21	AB2 (ppb)	LC-PCD FI	1.23	1.23	Y	Y			0.27	1.121	0.411
0910	602.21	AB2 (ppb)	LC-PCD FI	1.46	1.13	Y	Y			0.42	1.121	0.411
0098	602.21	AB2 (ppb)	LC-PCD FI	1.41	1.27	Y	Y			0.53	1.121	0.411

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO σ ffp
						D1	D2					
0870	602.23	AB2 (ppb)	LC-MS/MS	0.82	0.98	Y	Y			-0.54	1.121	0.411
0160	602.23	AB2 (ppb)	LC-MS/MS		1.13	N	Y	1	61.56%	0.02	1.121	0.411
0218	602.23	AB2 (ppb)	LC-MS/MS	1.2	1.3	Y	Y			0.31	1.121	0.411
0613	602.23	AB2 (ppb)	LC-MS/MS	1.5	1	Y	Y			0.31	1.121	0.411
0964	602.23	AB2 (ppb)	LC-MS/MS	2.19	2.165	Y	Y			2.57	1.121	0.411
0553	602.23	AB2 (ppb)	LC-MS/MS	2.62	2.87	Y	Y			3.95	1.121	0.411
0619	602.23	AB2 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				1.121	0.411
0028	602.23	AB2 (ppb)	LC-MS/MS			N	N	1	61.56%	NoZ	1.121	0.411
0918	602.23	AB2 (ppb)	LC-MS/MS			N	N	1	61.56%	NoZ	1.121	0.411
2033	602.23	AB2 (ppb)	LC-MS/MS			N	N	1	61.56%	NoZ	1.121	0.411
2207	602.23	AB2 (ppb)	LC-MS/MS			N	N	1	61.56%	NoZ	1.121	0.411
2053	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	0.8	0.8	Y	Y			-0.78	1.121	0.411
0226	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	0.9	0.9	Y	Y			-0.54	1.121	0.411
0009	602.99	AB2 (ppb)	Miscellaneous			N	N	3.28	0.00%	NoZ	1.121	0.411
2066	603.20	AG1 (ppb)	LC	11.6	9.74	Y	Y				ND	
2247	603.20	AG1 (ppb)	LC			N	N	0.1			ND	
0098	603.21	AG1 (ppb)	LC-PCD FI			N	N	15			ND	
0910	603.21	AG1 (ppb)	LC-PCD FI	0.09	0.14	Y	Y				ND	
0160	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
0218	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
0553	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
0613	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
0619	603.23	AG1 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				ND	
0870	603.23	AG1 (ppb)	LC-MS/MS			N	N	0.6			ND	
0918	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
0964	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
2033	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
2207	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
0226	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI			N	N	2			ND	
2053	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI			N	N	0.1			ND	
0009	603.99	AG1 (ppb)	Miscellaneous	[0]	[0]	Y	Y				ND	
0563	604.20	AG2 (ppb)	LC	1.28	1.52	Y	Y				ND	
2066	604.20	AG2 (ppb)	LC	0.93	6.57	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	0.05		Y	N	0.01			ND	
0160	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			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	
0613	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	0.6			ND	

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO σ ffp
						D1	D2					
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	
2207	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
0226	604.24	AG2 (ppb)	Vicam Aflatest, LC-FI			N	N	1			ND	
2053	604.24	AG2 (ppb)	Vicam Aflatest, LC-FI			N	N	0.1			ND	
0009	604.99	AG2 (ppb)	Miscellaneous	[0]	[0]	Y	Y				ND	
0554	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	[1.4]	[1.6]	Y	Y			-3.32	1,670	503.1
0529	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	[1.5]	[1.8]	Y	Y			-3.32	1,670	503.1
2022	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	[1.88]	[1.81]	Y	Y			-3.32	1,670	503.1
0297	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	[2]	[2.2]	Y	Y			-3.32	1,670	503.1
2192	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1110	540	Y	Y			-1.68	1,670	503.1
0511	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1400	1700	Y	Y			-0.24	1,670	503.1
0413	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1700	1600	Y	Y			-0.04	1,670	503.1
2098	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1600	1700	Y	Y			-0.04	1,670	503.1
0027	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1700	1800	Y	Y			0.16	1,670	503.1
0032	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1762	1782	Y	Y			0.20	1,670	503.1
0208	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1710	1900	Y	Y			0.27	1,670	503.1
0870	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2000	1800	Y	Y			0.46	1,670	503.1
0047	610.02	Deoxynivalenol (ppb)	Neogen Veratox for DON HS	1600	1500	Y	Y			-0.24	1,670	503.1
0202	610.06	Deoxynivalenol (ppb)	r-Biopharm Ridascreen DON	[1.474]	[1.676]	Y	Y			-3.32	1,670	503.1
2129	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1473	1530	Y	Y			-0.34	1,670	503.1
0590	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1710	1530	Y	Y			-0.10	1,670	503.1
0009	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1625	1720	Y	Y			0.00	1,670	503.1
0407	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1596	1786	Y	Y			0.04	1,670	503.1
0638	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1790	1800	Y	Y			0.25	1,670	503.1
2066	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1660	2010	Y	Y			0.33	1,670	503.1
0066	610.08	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON SC	1880	2030	Y	Y			0.57	1,670	503.1
0035	610.08	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON SC	1961	1985	Y	Y			0.60	1,670	503.1
0226	610.09	Deoxynivalenol (ppb)	Vicam DON-V	2100	2000	Y	Y			0.75	1,670	503.1
0868	610.20	Deoxynivalenol (ppb)	LC	1270	1290	Y	Y			-0.78	1,670	503.1
0098	610.20	Deoxynivalenol (ppb)	LC	1500	1600	Y	Y			-0.24	1,670	503.1
0413	610.20	Deoxynivalenol (ppb)	LC	1600	1600	Y	Y			-0.14	1,670	503.1
0910	610.20	Deoxynivalenol (ppb)	LC	1640	1680	Y	Y			-0.02	1,670	503.1
2247	610.20	Deoxynivalenol (ppb)	LC	1746.12	1676	Y	Y			0.08	1,670	503.1
2244	610.20	Deoxynivalenol (ppb)	LC	1840.338	1842.95	Y	Y			0.34	1,670	503.1
0028	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1072	1110	Y	Y			-1.15	1,670	503.1
0553	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1120.4	1152.6	Y	Y			-1.06	1,670	503.1
0619	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1164	1430	Y	Y			-0.74	1,670	503.1
0613	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1777.39	1168.2	Y	Y			-0.39	1,670	503.1
0218	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1470	1520	Y	Y			-0.35	1,670	503.1
0010	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1520	1590	Y	Y			-0.23	1,670	503.1

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO σ ffp
						D1	D2					
2033	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1480	1660	Y	Y			-0.20	1,670	503.1
0964	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1563.12	1817.12	Y	Y			0.04	1,670	503.1
2207	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1710	1690	Y	Y			0.06	1,670	503.1
0160	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1810	1750	Y	Y			0.22	1,670	503.1
0001	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1714	1862	Y	Y			0.23	1,670	503.1
0870	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1880	1800	Y	Y			0.34	1,670	503.1
2053	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1991	2109	Y	Y			0.75	1,670	503.1
0918	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2153.85	1970.56	Y	Y			0.78	1,670	503.1
0563	610.25	Deoxynivalenol (ppb)	GC-MS	2004	2390	Y	Y			1.05	1,670	503.1
2169	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1200	1200	Y	Y			-0.94	1,670	503.1
0868	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1370	1370	Y	Y			-0.60	1,670	503.1
2244	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1665.4	1659.61	Y	Y			-0.02	1,670	503.1
2239	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1697	1712	Y	Y			0.07	1,670	503.1
0878	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1810	1750	Y	Y			0.22	1,670	503.1
0142	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1800	1800	Y	Y			0.26	1,670	503.1
2050	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1900	1800	Y	Y			0.36	1,670	503.1
0870	610.99	Deoxynivalenol (ppb)	Miscellaneous	1440	1440	Y	Y			-0.46	1,670	503.1
0554	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	[1.3]	[1]	Y	Y			-3.31	1,584	477.6
2192	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	180	500	Y	Y			-2.60	1,584	477.6
0511	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	1000	800	Y	Y			-1.43	1,584	477.6
0032	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	1300	1200	Y	Y			-0.70	1,584	477.6
2098	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	1280	1300	Y	Y			-0.61	1,584	477.6
0027	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	1700	1360	Y	Y			-0.11	1,584	477.6
2022	620.02	Total Fumonisin (ppb)	Neogen Veratox Fumonisin 5/10	[1.73]	[1.88]	Y	Y			-3.31	1,584	477.6
0529	620.02	Total Fumonisin (ppb)	Neogen Veratox Fumonisin 5/10	[2.3]	[2.2]	Y	Y			-3.31	1,584	477.6
0870	620.02	Total Fumonisin (ppb)	Neogen Veratox Fumonisin 5/10	2230	2410	Y	Y			1.54	1,584	477.6
0868	620.07	Total Fumonisin (ppb)	Romer AgraQuant Total Fumonisin	1920	1980	Y	Y			0.77	1,584	477.6
0202	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	[1.644]	[1.78]	Y	Y			-3.31	1,584	477.6
0407	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	1313.5	1756	Y	Y			-0.10	1,584	477.6
0035	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	2058	1999	Y	Y			0.93	1,584	477.6
0066	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	1980	2160	Y	Y			1.02	1,584	477.6
2129	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	2554	1850	Y	Y			1.29	1,584	477.6
0098	620.11	Total Fumonisin (ppb)	Vicam Fumonitest	1000	1000	Y	Y			-1.22	1,584	477.6
0563	620.20	Total Fumonisin (ppb)	LC	885.1	972.3	Y	Y			-1.37	1,584	477.6
0208	620.20	Total Fumonisin (ppb)	LC	1900	1800	Y	Y			0.56	1,584	477.6
0010	620.23	Total Fumonisin (ppb)	LC-MS/MS	1000	1000	Y	Y			-1.22	1,584	477.6
0619	620.23	Total Fumonisin (ppb)	LC-MS/MS	1237	1123	Y	Y			-0.84	1,584	477.6
0160	620.23	Total Fumonisin (ppb)	LC-MS/MS	1300	1600	Y	Y			-0.28	1,584	477.6
2033	620.23	Total Fumonisin (ppb)	LC-MS/MS	1550	1429	Y	Y			-0.20	1,584	477.6
0613	620.23	Total Fumonisin (ppb)	LC-MS/MS	1434.27	1723.66	Y	Y			-0.01	1,584	477.6
2244	620.23	Total Fumonisin (ppb)	LC-MS/MS	1887.56	1810.644	Y	Y			0.56	1,584	477.6
2239	620.98	Total Fumonisin (ppb)	Other Rapid Test Kit	1810	1786	Y	Y			0.45	1,584	477.6

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO σ ffp
						D1	D2					
0878	620.98	Total Fumonisin (ppb)	Other Rapid Test Kit	1980	2130	Y	Y			0.99	1,584	477.6
0142	620.98	Total Fumonisin (ppb)	Other Rapid Test Kit	2700	2800	Y	Y			2.44	1,584	477.6
0098	621.20	FB1 (ppb)	LC	800	800	Y	Y			-0.74	1,033	315.2
2244	621.20	FB1 (ppb)	LC	1332.054	1357.606	Y	Y			0.99	1,033	315.2
0910	621.21	FB1 (ppb)	LC-FI OPA der.	972	968	Y	Y			-0.20	1,033	315.2
0043	621.22	FB1 (ppb)	LC-MS	527.7	483.9	Y	Y			-1.67	1,033	315.2
2053	621.22	FB1 (ppb)	LC-MS	1130	1160	Y	Y			0.35	1,033	315.2
2207	621.23	FB1 (ppb)	LC-MS/MS	700	800	Y	Y			-0.90	1,033	315.2
0619	621.23	FB1 (ppb)	LC-MS/MS	1000	857	Y	Y			-0.33	1,033	315.2
0218	621.23	FB1 (ppb)	LC-MS/MS	941	947	Y	Y			-0.28	1,033	315.2
0001	621.23	FB1 (ppb)	LC-MS/MS	1122	886	Y	Y			-0.09	1,033	315.2
0870	621.23	FB1 (ppb)	LC-MS/MS	1040	1060	Y	Y			0.05	1,033	315.2
2033	621.23	FB1 (ppb)	LC-MS/MS	1098	1011	Y	Y			0.07	1,033	315.2
0553	621.23	FB1 (ppb)	LC-MS/MS	924.5	1209.3	Y	Y			0.11	1,033	315.2
0160	621.23	FB1 (ppb)	LC-MS/MS	1100	1300	Y	Y			0.53	1,033	315.2
0613	621.23	FB1 (ppb)	LC-MS/MS	1169.55	1330.47	Y	Y			0.69	1,033	315.2
0964	621.23	FB1 (ppb)	LC-MS/MS	1318.475	1248.435	Y	Y			0.79	1,033	315.2
2244	622.20	FB2 (ppb)	LC	196.816	195.36	Y	Y			-0.58	240.1	76.22
0098	622.20	FB2 (ppb)	LC	200	200	Y	Y			-0.53	240.1	76.22
0910	622.21	FB2 (ppb)	LC-FI OPA der.	205	200	Y	Y			-0.49	240.1	76.22
0043	622.22	FB2 (ppb)	LC-MS	72.27	72.51	Y	Y			-2.20	240.1	76.22
2053	622.22	FB2 (ppb)	LC-MS	250	230	Y	Y			0.00	240.1	76.22
0001	622.23	FB2 (ppb)	LC-MS/MS	192	193	Y	Y			-0.63	240.1	76.22
2207	622.23	FB2 (ppb)	LC-MS/MS	200	200	Y	Y			-0.53	240.1	76.22
0870	622.23	FB2 (ppb)	LC-MS/MS	200	220	Y	Y			-0.40	240.1	76.22
0218	622.23	FB2 (ppb)	LC-MS/MS	241	252	Y	Y			0.08	240.1	76.22
0160	622.23	FB2 (ppb)	LC-MS/MS	200	300	Y	Y			0.13	240.1	76.22
0619	622.23	FB2 (ppb)	LC-MS/MS	236	266	Y	Y			0.14	240.1	76.22
2033	622.23	FB2 (ppb)	LC-MS/MS	292	289	Y	Y			0.66	240.1	76.22
0553	622.23	FB2 (ppb)	LC-MS/MS	324.2	303.5	Y	Y			0.97	240.1	76.22
0613	622.23	FB2 (ppb)	LC-MS/MS	264.72	393.19	Y	Y			1.17	240.1	76.22
0964	622.23	FB2 (ppb)	LC-MS/MS	353.95	521.185	Y	Y			2.59	240.1	76.22
2053	623.22	FB3 (ppb)	LC-MS	110	120	Y	Y			-0.40	131.8	42.52
0870	623.23	FB3 (ppb)	LC-MS/MS	120	120	Y	Y			-0.28	131.8	42.52
2033	623.23	FB3 (ppb)	LC-MS/MS	160	129	Y	Y			0.30	131.8	42.52
0553	623.23	FB3 (ppb)	LC-MS/MS	126.7	168.7	Y	Y			0.37	131.8	42.52
0160	623.23	FB3 (ppb)	LC-MS/MS			N	N	100	77.27%	NoZ	131.8	42.52
0529	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	45.7	57.95	Y	Y			-2.30	194.3	62.04
2098	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	238.3	240.7	Y	Y			0.73	194.3	62.04
2022	630.03	Ochratoxin A (ppb)	Romer AgraQuant Ochratoxin	108.99	116.65	Y	Y			-1.31	194.3	62.04
0868	630.03	Ochratoxin A (ppb)	Romer AgraQuant Ochratoxin	163.23	196.61	Y	Y			-0.23	194.3	62.04
0407	630.04	Ochratoxin A (ppb)	r-Biopharm Ridascreen Ochratoxin A	19.4	17.45	Y	Y			-2.84	194.3	62.04

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO σ ffp
						D1	D2					
2066	630.04	Ochratoxin A (ppb)	r-Biopharm Ridascreen Ochratoxin A	35.01	29.03	Y	Y			-2.62	194.3	62.04
0066	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och A	85	97.37	Y	Y			-1.66	194.3	62.04
0613	630.06	Ochratoxin A (ppb)	Vicam OchraTest	69.36	65.71	Y	Y			-2.04	194.3	62.04
2244	630.20	Ochratoxin A (ppb)	LC	183.18	178.65	Y	Y			-0.22	194.3	62.04
0563	630.20	Ochratoxin A (ppb)	LC	207.4	208.9	Y	Y			0.22	194.3	62.04
2247	630.20	Ochratoxin A (ppb)	LC	226.34	215.15	Y	Y			0.43	194.3	62.04
2066	630.20	Ochratoxin A (ppb)	LC	251	245	Y	Y			0.87	194.3	62.04
0098	630.20	Ochratoxin A (ppb)	LC	262	272	Y	Y			1.17	194.3	62.04
2192	630.20	Ochratoxin A (ppb)	LC	329.33	401.76	Y	Y			2.76	194.3	62.04
0910	630.21	Ochratoxin A (ppb)	LC-PCD FI	202	164	Y	Y			-0.18	194.3	62.04
0613	630.23	Ochratoxin A (ppb)	LC-MS/MS	69.36	65.71	Y	Y			-2.04	194.3	62.04
2207	630.23	Ochratoxin A (ppb)	LC-MS/MS	90	101	Y	Y			-1.59	194.3	62.04
0001	630.23	Ochratoxin A (ppb)	LC-MS/MS	174	160	Y	Y			-0.44	194.3	62.04
2033	630.23	Ochratoxin A (ppb)	LC-MS/MS	170	170	Y	Y			-0.39	194.3	62.04
0870	630.23	Ochratoxin A (ppb)	LC-MS/MS	187.2	187.2	Y	Y			-0.11	194.3	62.04
0619	630.23	Ochratoxin A (ppb)	LC-MS/MS	177	206	Y	Y			-0.05	194.3	62.04
0010	630.23	Ochratoxin A (ppb)	LC-MS/MS	210	220	Y	Y			0.33	194.3	62.04
0918	630.23	Ochratoxin A (ppb)	LC-MS/MS	252.2	275.3	Y	Y			1.12	194.3	62.04
0160	630.23	Ochratoxin A (ppb)	LC-MS/MS	290	240	Y	Y			1.14	194.3	62.04
0964	630.23	Ochratoxin A (ppb)	LC-MS/MS	269.63	266.545	Y	Y			1.19	194.3	62.04
0218	630.23	Ochratoxin A (ppb)	LC-MS/MS	313	292	Y	Y			1.74	194.3	62.04
0553	630.23	Ochratoxin A (ppb)	LC-MS/MS	394.3	426.4	Y	Y			3.48	194.3	62.04
2053	630.23	Ochratoxin A (ppb)	LC-MS/MS	419	415	Y	Y			3.59	194.3	62.04
0870	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	175	149	Y	Y			-0.52	194.3	62.04
2244	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	165.32	162.779	Y	Y			-0.49	194.3	62.04
2239	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	245.8	250.5	Y	Y			0.87	194.3	62.04
0878	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	283.5	271.1	Y	Y			1.34	194.3	62.04
0868	640.03	T-2 (ppb)	Romer AgraQuant T-2	537.95	569.51	Y	Y			-0.05	561.8	174.2
0066	640.03	T-2 (ppb)	Romer AgraQuant T-2	572.1	584.47	Y	Y			0.09	561.8	174.2
0202	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	638.2	666.593	Y	Y			0.52	561.8	174.2
0407	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	661.75	816.14	Y	Y			1.02	561.8	174.2
0638	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	1140	1480	Y	Y			4.29	561.8	174.2
2129	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	1586	1450	Y	Y			5.49	561.8	174.2
0910	640.21	T-2 (ppb)	LC-PCD FI	283.9	314.6	Y	Y			-1.51	561.8	174.2
2244	640.23	T-2 (ppb)	LC-MS/MS	422.259	425.76	Y	Y			-0.79	561.8	174.2
0001	640.23	T-2 (ppb)	LC-MS/MS	454	422	Y	Y			-0.71	561.8	174.2
0870	640.23	T-2 (ppb)	LC-MS/MS	462.88	455.16	Y	Y			-0.59	561.8	174.2
2207	640.23	T-2 (ppb)	LC-MS/MS	480	470	Y	Y			-0.50	561.8	174.2
2033	640.23	T-2 (ppb)	LC-MS/MS	500	500	Y	Y			-0.35	561.8	174.2
0160	640.23	T-2 (ppb)	LC-MS/MS	481	582	Y	Y			-0.17	561.8	174.2
0619	640.23	T-2 (ppb)	LC-MS/MS	578	533	Y	Y			-0.04	561.8	174.2
0918	640.23	T-2 (ppb)	LC-MS/MS	517.35	609.11	Y	Y			0.01	561.8	174.2

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO σ ffp
						D1	D2					
0218	640.23	T-2 (ppb)	LC-MS/MS	635	532	Y	Y			0.12	561.8	174.2
0553	640.23	T-2 (ppb)	LC-MS/MS	538.9	719.4	Y	Y			0.39	561.8	174.2
2053	640.23	T-2 (ppb)	LC-MS/MS	660	664	Y	Y			0.58	561.8	174.2
0964	640.23	T-2 (ppb)	LC-MS/MS	672.645	657.42	Y	Y			0.59	561.8	174.2
0563	640.25	T-2 (ppb)	GC-MS	540	564	Y	Y			-0.06	561.8	174.2
2239	640.98	T-2 (ppb)	Other Rapid Test Kit	424.9	431.5	Y	Y			-0.77	561.8	174.2
0878	640.98	T-2 (ppb)	Other Rapid Test Kit	527.1	472.8	Y	Y			-0.35	561.8	174.2
0910	641.21	HT-2 (ppb)	LC post-col photochem der. FI	105	106	Y	Y			-1.55	208	66.26
0964	641.23	HT-2 (ppb)	LC-MS/MS	88.205	175.01	Y	Y			-1.15	208	66.26
0870	641.23	HT-2 (ppb)	LC-MS/MS	185.54	185.6	Y	Y			-0.34	208	66.26
2207	641.23	HT-2 (ppb)	LC-MS/MS	220	210	Y	Y			0.11	208	66.26
2033	641.23	HT-2 (ppb)	LC-MS/MS	228	206	Y	Y			0.14	208	66.26
0619	641.23	HT-2 (ppb)	LC-MS/MS	204	240	Y	Y			0.21	208	66.26
0218	641.23	HT-2 (ppb)	LC-MS/MS	277	271	Y	Y			1.00	208	66.26
2053	641.23	HT-2 (ppb)	LC-MS/MS	314	312	Y	Y			1.59	208	66.26
0613	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	428.99	589.45	Y	Y			-1.58	985.7	301.1
2022	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	847.15	884.69	Y	Y			-0.40	985.7	301.1
2098	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	1018.1	1021.5	Y	Y			0.11	985.7	301.1
2192	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	1207.4	1263.6	Y	Y			0.83	985.7	301.1
0529	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	1685	1479.5	Y	Y			1.98	985.7	301.1
0870	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	1629	1637	Y	Y			2.15	985.7	301.1
0590	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	560	420	Y	Y			-1.65	985.7	301.1
2244	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	530.71	568.62	Y	Y			-1.45	985.7	301.1
0529	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	44.2	43.1	Y	Y			-2.44	198.1	63.21
0870	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	137.6	162.3	Y	Y			-0.76	198.1	63.21
2098	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	174	196.2	Y	Y			-0.21	198.1	63.21
0027	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	269	305.3	Y	Y			1.41	198.1	63.21
2022	650.04	Zearalenone (ppb)	Romer AgraQuant ZON	343.15	334.72	Y	Y			2.23	198.1	63.21
2066	650.05	Zearalenone (ppb)	r-Biopharm Ridascreen Zearalenon	127.52	132.27	Y	Y			-1.08	198.1	63.21
0202	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	123.638	146.599	Y	Y			-1.00	198.1	63.21
2129	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	152	164	Y	Y			-0.63	198.1	63.21
0590	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	193	190	Y	Y			-0.10	198.1	63.21
0066	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON SC	97.23	106.69	Y	Y			-1.52	198.1	63.21
0407	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON SC	166.74	180.63	Y	Y			-0.39	198.1	63.21
0035	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON SC	182.59	177.38	Y	Y			-0.29	198.1	63.21
2244	650.20	Zearalenone (ppb)	LC	183.326	176.911	Y	Y			-0.28	198.1	63.21
0563	650.20	Zearalenone (ppb)	LC	193.8	196.7	Y	Y			-0.05	198.1	63.21
0910	650.20	Zearalenone (ppb)	LC	227	190	Y	Y			0.16	198.1	63.21
0413	650.20	Zearalenone (ppb)	LC	230	220	Y	Y			0.43	198.1	63.21
2247	650.20	Zearalenone (ppb)	LC	229.5	222.33	Y	Y			0.44	198.1	63.21
0868	650.20	Zearalenone (ppb)	LC	237	234	Y	Y			0.59	198.1	63.21
2192	650.20	Zearalenone (ppb)	LC	289.75	192.47	Y	Y			0.68	198.1	63.21

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO σ ffp
						D1	D2					
0098	650.20	Zearalenone (ppb)	LC	1060	1030	Y	Y			13.40	198.1	63.21
0160	650.23	Zearalenone (ppb)	LC-MS	99	128	Y	Y			-1.34	198.1	63.21
0043	650.23	Zearalenone (ppb)	LC-MS	169.4	176.1	Y	Y			-0.40	198.1	63.21
0870	650.24	Zearalenone (ppb)	LC-MS/MS	123.24	115.6	Y	Y			-1.24	198.1	63.21
2207	650.24	Zearalenone (ppb)	LC-MS/MS	150	140	Y	Y			-0.84	198.1	63.21
0918	650.24	Zearalenone (ppb)	LC-MS/MS	161.2	134.6	Y	Y			-0.79	198.1	63.21
0619	650.24	Zearalenone (ppb)	LC-MS/MS	196	201	Y	Y			0.01	198.1	63.21
0001	650.24	Zearalenone (ppb)	LC-MS/MS	208	202	Y	Y			0.11	198.1	63.21
2033	650.24	Zearalenone (ppb)	LC-MS/MS	220	200	Y	Y			0.19	198.1	63.21
0010	650.24	Zearalenone (ppb)	LC-MS/MS	210	230	Y	Y			0.35	198.1	63.21
0964	650.24	Zearalenone (ppb)	LC-MS/MS	260.995	270.57	Y	Y			1.07	198.1	63.21
0218	650.24	Zearalenone (ppb)	LC-MS/MS	282	275	Y	Y			1.27	198.1	63.21
2053	650.24	Zearalenone (ppb)	LC-MS/MS	298	311	Y	Y			1.68	198.1	63.21
0613	650.24	Zearalenone (ppb)	LC-MS/MS	326.68	376.04	Y	Y			2.42	198.1	63.21
0553	650.24	Zearalenone (ppb)	LC-MS/MS	468.1	531.2	Y	Y			4.77	198.1	63.21
2239	650.98	Zearalenone (ppb)	Other Rapid Test Kit	164.8	161.2	Y	Y			-0.56	198.1	63.21
2244	650.98	Zearalenone (ppb)	Other Rapid Test Kit	178.83	180.213	Y	Y			-0.29	198.1	63.21
0142	650.98	Zearalenone (ppb)	Other Rapid Test Kit	186.5	193	Y	Y			-0.13	198.1	63.21
0878	650.98	Zearalenone (ppb)	Other Rapid Test Kit	207	196	Y	Y			0.05	198.1	63.21
0868	650.98	Zearalenone (ppb)	Other Rapid Test Kit	238	238	Y	Y			0.63	198.1	63.21

Notes: 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%). If 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.