

Mycotoxin Proficiency Testing, Z Scored Against Robust Consensus

Issue Date: 02/28/2018

All Tests for Sample # 201861: Equine Feed

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	Horwitz
						D1	D2					
0511	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	6.4	5.8	Y	Y			-1.13	8.127	1.788
0297	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	7.8	6.1	Y	Y			-0.66	8.127	1.788
2022	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	5.98	8.48	Y	Y			-0.50	8.127	1.788
2113	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	9.4	6.5	Y	Y			-0.10	8.127	1.788
0034	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	8.5	8.55	Y	Y			0.22	8.127	1.788
0964	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	10	8.9	Y	Y			0.74	8.127	1.788
2096	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	12.1	14.1	Y	Y			2.78	8.127	1.788
0032	600.02	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin HS	[0]	[0]	Y	Y				8.127	1.788
0045	600.04	Total Aflatoxin (ppb)	Charm ROSA Fast 5 Aflatoxin Qu	9	5	Y	Y			-0.63	8.127	1.788
2147	600.04	Total Aflatoxin (ppb)	Charm ROSA Fast 5 Aflatoxin Qu	9	12	Y	Y			1.33	8.127	1.788
0723	600.07	Total Aflatoxin (ppb)	Romer AgraQuant Total Afl 1-20pp	7.06	7.06	Y	Y			-0.60	8.127	1.788
0043	600.08	Total Aflatoxin (ppb)	Romer AgraQuant Total Afl 4-40pp	11.2	11.2	Y	Y			1.72	8.127	1.788
0202	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	2.69	2.71	Y	Y			-3.04	8.127	1.788
2129	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	4.1	4.3	Y	Y			-2.20	8.127	1.788
2066	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	5.94	5.96	Y	Y			-1.22	8.127	1.788
0590	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	7.23	7.78	Y	Y			-0.35	8.127	1.788
0035	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	7.82	6.93	Y	Y			-0.42	8.127	1.788
0407	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	6.943	8.251	Y	Y			-0.30	8.127	1.788
0004	600.14	Total Aflatoxin (ppb)	Vicam Aflatest	8.5	8.8	Y	Y			0.29	8.127	1.788
2192	600.20	Total Aflatoxin (ppb)	LC	2.83	3.35	Y	Y			-2.82	8.127	1.788
2066	600.20	Total Aflatoxin (ppb)	LC	4.28	4.34	Y	Y			-2.13	8.127	1.788
0226	600.20	Total Aflatoxin (ppb)	LC	5.8	5.3	Y	Y			-1.44	8.127	1.788
0010	600.20	Total Aflatoxin (ppb)	LC	9	8	Y	Y			0.21	8.127	1.788
0035	600.20	Total Aflatoxin (ppb)	LC	17.615	12.797	Y	Y			3.96	8.127	1.788
0042	600.20	Total Aflatoxin (ppb)	LC	15.83	15.65	Y	Y			4.26	8.127	1.788
0098	600.21	Total Aflatoxin (ppb)	LC-PCD FI	9	10.64	Y	Y			0.95	8.127	1.788
0413	600.24	Total Aflatoxin (ppb)	LC-MS/MS	5.4	6.3	Y	Y			-1.27	8.127	1.788
0160	600.24	Total Aflatoxin (ppb)	LC-MS/MS	9.02	10.6	Y	Y			0.94	8.127	1.788
2033	600.24	Total Aflatoxin (ppb)	LC-MS/MS	9.7	11	Y	Y			1.24	8.127	1.788
0218	600.24	Total Aflatoxin (ppb)	LC-MS/MS	19.7	16.9	Y	Y			5.69	8.127	1.788
2169	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	5.2	4.9	Y	Y			-1.72	8.127	1.788
2050	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	8.7	9	Y	Y			0.40	8.127	1.788
0870	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	11.7	9.7	Y	Y			1.44	8.127	1.788
2066	601.20	AB1 (ppb)	LC	0.67	0.63	Y	Y			-4.25	9.85	2.167

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
2192	601.20	AB1 (ppb)	LC	2.65	3.14	Y	Y			-3.21	9.85	2.167
0035	601.20	AB1 (ppb)	LC	16.49	11.971	Y	Y			2.02	9.85	2.167
0868	601.21	AB1 (ppb)	LC-PCD FI	7.64	7.98	Y	Y			-0.94	9.85	2.167
0098	601.21	AB1 (ppb)	LC-PCD FI	9	9.51	Y	Y			-0.27	9.85	2.167
0910	601.21	AB1 (ppb)	LC-PCD FI	13.85	12.89	Y	Y			1.62	9.85	2.167
0413	601.23	AB1 (ppb)	LC-MS/MS	4	5	Y	Y			-2.47	9.85	2.167
0870	601.23	AB1 (ppb)	LC-MS/MS	8.86	7.62	Y	Y			-0.74	9.85	2.167
2033	601.23	AB1 (ppb)	LC-MS/MS	8.9	10.4	Y	Y			-0.09	9.85	2.167
0160	601.23	AB1 (ppb)	LC-MS/MS	9.02	10.6	Y	Y			-0.02	9.85	2.167
0964	601.23	AB1 (ppb)	LC-MS/MS	12.1	11.6	Y	Y			0.92	9.85	2.167
0028	601.23	AB1 (ppb)	LC-MS/MS	12.19	13.48	Y	Y			1.38	9.85	2.167
0913	601.23	AB1 (ppb)	LC-MS/MS	12.78	14	Y	Y			1.63	9.85	2.167
0009	601.23	AB1 (ppb)	LC-MS/MS	13.17	14.51	Y	Y			1.84	9.85	2.167
2140	601.23	AB1 (ppb)	LC-MS/MS	15	13	Y	Y			1.92	9.85	2.167
0918	601.23	AB1 (ppb)	LC-MS/MS	14.2	18	Y	Y			2.88	9.85	2.167
0218	601.23	AB1 (ppb)	LC-MS/MS	18.7	16.9	Y	Y			3.67	9.85	2.167
0226	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	5.3	4.9	Y	Y			-2.19	9.85	2.167
2053	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	6.3	6.3	Y	Y			-1.64	9.85	2.167
0868	601.91	AB1 (ppb)	Romer AgraQuant Afl B1	9.1	9.1	Y	Y			-0.35	9.85	2.167
2185	601.98	AB1 (ppb)	Other Rapid Test Kit	7.4	7.5	Y	Y			-1.11	9.85	2.167
0868	601.98	AB1 (ppb)	Other Rapid Test Kit	7.7	7.5	Y	Y			-1.04	9.85	2.167
0878	601.98	AB1 (ppb)	Other Rapid Test Kit	10	8.7	Y	Y			-0.23	9.85	2.167
2192	602.20	AB2 (ppb)	LC	0.18	0.21	Y	Y			-3.43	0.797	0.175
2066	602.20	AB2 (ppb)	LC	0.59	0.61	Y	Y			-1.12	0.797	0.175
0035	602.20	AB2 (ppb)	LC	1.125	0.827	Y	Y			1.02	0.797	0.175
0868	602.21	AB2 (ppb)	LC-PCD FI	0.68	0.73	Y	Y			-0.52	0.797	0.175
0910	602.21	AB2 (ppb)	LC-PCD FI	0.99	0.89	Y	Y			0.82	0.797	0.175
0098	602.21	AB2 (ppb)	LC-PCD FI		1.13	N	Y	1	12.31%	1.90	0.797	0.175
0870	602.23	AB2 (ppb)	LC-MS/MS	0.72	0.64	Y	Y			-0.67	0.797	0.175
2033	602.23	AB2 (ppb)	LC-MS/MS	0.813	0.63	Y	Y			-0.43	0.797	0.175
0009	602.23	AB2 (ppb)	LC-MS/MS	1.1	0.79	Y	Y			0.85	0.797	0.175
0218	602.23	AB2 (ppb)	LC-MS/MS	1.1		Y	N	1	12.31%	1.73	0.797	0.175
0964	602.23	AB2 (ppb)	LC-MS/MS	1.6	1	Y	Y			2.87	0.797	0.175
0918	602.23	AB2 (ppb)	LC-MS/MS	1.25	1.51	Y	Y			3.33	0.797	0.175
0160	602.23	AB2 (ppb)	LC-MS/MS			N	N	1	12.31%	NoZ	0.797	0.175
0413	602.23	AB2 (ppb)	LC-MS/MS			N	N	1	12.31%	NoZ	0.797	0.175
0913	602.23	AB2 (ppb)	LC-MS/MS			N	N	1	12.31%	NoZ	0.797	0.175
0226	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	0.5	0.5	Y	Y			-1.69	0.797	0.175
2053	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	0.6	0.6	Y	Y			-1.12	0.797	0.175
2066	603.20	AG1 (ppb)	LC	0.75	0.95	Y	Y			1.06	0.689	0.152
0910	603.21	AG1 (ppb)	LC-PCD FI	0.11	0.09	Y	Y			-3.89	0.689	0.152
0868	603.21	AG1 (ppb)	LC-PCD FI	1.32	1.29	Y	Y			4.07	0.689	0.152

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						D1	D2					
0098	603.21	AG1 (ppb)	LC-PCD FI			N	N	15	0.00%	NoZ	0.689	0.152
0918	603.23	AG1 (ppb)	LC-MS/MS	0.3	0.7	Y	Y			-1.25	0.689	0.152
0913	603.23	AG1 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				0.689	0.152
0009	603.23	AG1 (ppb)	LC-MS/MS			N	N	0.2	99.94%	NoZ	0.689	0.152
0160	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	2.00%	NoZ	0.689	0.152
0218	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	2.00%	NoZ	0.689	0.152
0413	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	2.00%	NoZ	0.689	0.152
0870	603.23	AG1 (ppb)	LC-MS/MS			N	N	0.6	72.10%	NoZ	0.689	0.152
0964	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	2.00%	NoZ	0.689	0.152
2033	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	2.00%	NoZ	0.689	0.152
0226	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI			N	N	2	0.00%	NoZ	0.689	0.152
2053	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI			N	N	0.1	99.99%	NoZ	0.689	0.152
2066	604.20	AG2 (ppb)	LC	0.26	0.25	Y	Y				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	
0009	604.23	AG2 (ppb)	LC-MS/MS			N	N	0.2			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	
0413	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
0870	604.23	AG2 (ppb)	LC-MS/MS			N	N	0.6			ND	
0913	604.23	AG2 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				ND	
0918	604.23	AG2 (ppb)	LC-MS/MS			N	N	0.03			ND	
0964	604.23	AG2 (ppb)	LC-MS/MS			N	N	2.49			ND	
2033	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	
0723	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	[1.59]	[1.59]	Y	Y			-6.74	1,652	245
0870	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,500	1,700	Y	Y			-0.21	1,652	245
0413	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,700	1,600	Y	Y			-0.01	1,652	245
0297	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,700	1,900	Y	Y			0.61	1,652	245
2022	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,830	1,800	Y	Y			0.67	1,652	245
0208	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,870	1,820	Y	Y			0.79	1,652	245
0964	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,800	2,000	Y	Y			1.01	1,652	245
0032	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,000	1,900	Y	Y			1.22	1,652	245
2113	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,000	2,200	Y	Y			1.83	1,652	245
0511	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,700	2,500	Y	Y			3.87	1,652	245
0045	610.04	Deoxynivalenol (ppb)	Charm ROSA Fast 5 DON Quant	1,500	2,100	Y	Y			0.61	1,652	245
0043	610.05	Deoxynivalenol (ppb)	Romer AgraQuant DON	1,650	1,450	Y	Y			-0.41	1,652	245
0868	610.05	Deoxynivalenol (ppb)	Romer AgraQuant DON	1,540	1,560	Y	Y			-0.41	1,652	245
0202	610.06	Deoxynivalenol (ppb)	r-Biopharm Ridascreen DON	694.9	726.6	Y	Y			-3.84	1,652	245
2066	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DOI	980	1,060	Y	Y			-2.58	1,652	245
2129	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DOI	1,392	1,350	Y	Y			-1.15	1,652	245

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0407	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DOI	1,560	1,570	Y	Y			-0.35	1,652	245
0590	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DOI	1,590	1,690	Y	Y			-0.05	1,652	245
0638	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DOI	1,790	1,730	Y	Y			0.44	1,652	245
0035	610.08	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DOI	2,151	2,258	Y	Y			2.26	1,652	245
0226	610.09	Deoxynivalenol (ppb)	Vicam DON-V	[1.4]	[1.7]	Y	Y			-6.74	1,652	245
0868	610.20	Deoxynivalenol (ppb)	LC	1,450	1,460	Y	Y			-0.80	1,652	245
0413	610.20	Deoxynivalenol (ppb)	LC	1,600	1,600	Y	Y			-0.21	1,652	245
0098	610.20	Deoxynivalenol (ppb)	LC	1,700	1,500	Y	Y			-0.21	1,652	245
0910	610.20	Deoxynivalenol (ppb)	LC	1,680	1,740	Y	Y			0.24	1,652	245
0413	610.23	Deoxynivalenol (ppb)	LC-MS/MS	710	770	Y	Y			-3.72	1,652	245
0913	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,240	1,540	Y	Y			-1.07	1,652	245
0918	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,410	1,420	Y	Y			-0.97	1,652	245
2140	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,542	1,580	Y	Y			-0.37	1,652	245
0028	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,385	1,738	Y	Y			-0.37	1,652	245
2033	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,550	1,700	Y	Y			-0.11	1,652	245
0870	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,540	1,720	Y	Y			-0.09	1,652	245
0160	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,970	1,880	Y	Y			1.12	1,652	245
2053	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,836	2,016	Y	Y			1.12	1,652	245
0964	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2,331	2,048	Y	Y			2.20	1,652	245
0878	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	[2.04]	[2.45]	Y	Y			-6.73	1,652	245
2185	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1,282	1,279	Y	Y			-1.51	1,652	245
0868	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1,460	1,510	Y	Y			-0.68	1,652	245
2169	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1,700	1,700	Y	Y			0.20	1,652	245
2050	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1,900	1,700	Y	Y			0.61	1,652	245
0870	610.99	Deoxynivalenol (ppb)	Miscellaneous	1,280	1,360	Y	Y			-1.35	1,652	245
0297	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	[3.1]	[3.2]	Y	Y			-7.28	2,784	381.8
0511	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	1,500	1,700	Y	Y			-3.10	2,784	381.8
0042	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	1,800	2,000	Y	Y			-2.32	2,784	381.8
0032	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	3,000	2,000	Y	Y			-0.74	2,784	381.8
2113	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	2,500	3,200	Y	Y			0.17	2,784	381.8
0964	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	2,800	3,300	Y	Y			0.70	2,784	381.8
2192	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	4,730	4,600	Y	Y			4.93	2,784	381.8
0870	620.02	Total Fumonisin (ppb)	Neogen Veratox Fumonisin 5/10	3,080	3,090	Y	Y			0.79	2,784	381.8
2022	620.02	Total Fumonisin (ppb)	Neogen Veratox Fumonisin 5/10	3,430	3,460	Y	Y			1.73	2,784	381.8
0045	620.04	Total Fumonisin (ppb)	Charm ROSA Fast 5 FUMQ	3,400	3,000	Y	Y			1.09	2,784	381.8
0868	620.07	Total Fumonisin (ppb)	Romer AgraQuant Total Fumonisin	2,660	2,690	Y	Y			-0.29	2,784	381.8
0043	620.07	Total Fumonisin (ppb)	Romer AgraQuant Total Fumonisin	5,000	5,000	Y	Y			5.80	2,784	381.8
2066	620.08	Total Fumonisin (ppb)	r-Biopharm Ridascreen Fumonisin	2,400	2,480	Y	Y			-0.90	2,784	381.8
0202	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	1,154	1,286	Y	Y			-4.10	2,784	381.8
0407	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	1,647	1,684	Y	Y			-2.93	2,784	381.8
2129	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	2,525	2,351	Y	Y			-0.91	2,784	381.8
0035	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	2,517	2,493	Y	Y			-0.73	2,784	381.8

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0098	620.11	Total Fumonisin (ppb)	Vicam Fumonitest	1,900	2,100	Y	Y			-2.05	2,784	381.8
0208	620.20	Total Fumonisin (ppb)	LC	3,300	3,700	Y	Y			1.87	2,784	381.8
0226	620.21	Total Fumonisin (ppb)	LC-FI OPA der.	3,000	2,800	Y	Y			0.30	2,784	381.8
2033	620.23	Total Fumonisin (ppb)	LC-MS/MS	1,866	2,211	Y	Y			-1.95	2,784	381.8
0010	620.23	Total Fumonisin (ppb)	LC-MS/MS	3,000	2,000	Y	Y			-0.74	2,784	381.8
0160	620.23	Total Fumonisin (ppb)	LC-MS/MS	3,730	3,780	Y	Y			2.54	2,784	381.8
0413	620.23	Total Fumonisin (ppb)	LC-MS/MS	9,418	7,088	Y	Y			14.32	2,784	381.8
0878	620.98	Total Fumonisin (ppb)	Other Rapid Test Kit	[3.63]	[3.12]	Y	Y			-7.28	2,784	381.8
0098	621.20	FB1 (ppb)	LC	1,500	1,700	Y	Y			-1.25	1,954	282.6
0910	621.21	FB1 (ppb)	LC-FI OPA der.	1,809	1,660	Y	Y			-0.78	1,954	282.6
0226	621.21	FB1 (ppb)	LC-FI OPA der.	2,100	1,900	Y	Y			0.16	1,954	282.6
2053	621.22	FB1 (ppb)	LC-MS	2,309	2,021	Y	Y			0.75	1,954	282.6
0913	621.23	FB1 (ppb)	LC-MS/MS	1,340	1,100	Y	Y			-2.60	1,954	282.6
2033	621.23	FB1 (ppb)	LC-MS/MS	1,222	1,487	Y	Y			-2.12	1,954	282.6
0964	621.23	FB1 (ppb)	LC-MS/MS	1,402	1,406	Y	Y			-1.95	1,954	282.6
0218	621.23	FB1 (ppb)	LC-MS/MS	1,910	1,780	Y	Y			-0.39	1,954	282.6
2140	621.23	FB1 (ppb)	LC-MS/MS	1,945	1,827	Y	Y			-0.24	1,954	282.6
0870	621.23	FB1 (ppb)	LC-MS/MS	2,120	2,000	Y	Y			0.37	1,954	282.6
0160	621.23	FB1 (ppb)	LC-MS/MS	2,710	2,810	Y	Y			2.85	1,954	282.6
0413	621.23	FB1 (ppb)	LC-MS/MS	8,500	6,596	Y	Y			19.79	1,954	282.6
2185	621.98	FB1 (ppb)	Other Rapid Test Kit	2,540	2,544	Y	Y			2.08	1,954	282.6
0098	622.20	FB2 (ppb)	LC	400	400	Y	Y			-1.33	522.2	92.112
0910	622.21	FB2 (ppb)	LC-FI OPA der.	440	370	Y	Y			-1.27	522.2	92.112
0226	622.21	FB2 (ppb)	LC-FI OPA der.	600	600	Y	Y			0.84	522.2	92.112
2053	622.22	FB2 (ppb)	LC-MS	609	535	Y	Y			0.54	522.2	92.112
0913	622.23	FB2 (ppb)	LC-MS/MS	230	200	Y	Y			-3.33	522.2	92.112
2140	622.23	FB2 (ppb)	LC-MS/MS	437	437	Y	Y			-0.92	522.2	92.112
0218	622.23	FB2 (ppb)	LC-MS/MS	468	450	Y	Y			-0.69	522.2	92.112
0870	622.23	FB2 (ppb)	LC-MS/MS	480	480	Y	Y			-0.46	522.2	92.112
2033	622.23	FB2 (ppb)	LC-MS/MS	449	514	Y	Y			-0.44	522.2	92.112
0964	622.23	FB2 (ppb)	LC-MS/MS	702	662.5	Y	Y			1.74	522.2	92.112
0413	622.23	FB2 (ppb)	LC-MS/MS	918	492	Y	Y			1.98	522.2	92.112
0160	622.23	FB2 (ppb)	LC-MS/MS	867	809	Y	Y			3.43	522.2	92.112
0226	623.21	FB3 (ppb)	LC-FI OPA der.	300	300	Y	Y			1.96	215.2	43.373
2053	623.22	FB3 (ppb)	LC-MS	268	236	Y	Y			0.85	215.2	43.373
0913	623.23	FB3 (ppb)	LC-MS/MS	160	100	Y	Y			-1.96	215.2	43.373
0160	623.23	FB3 (ppb)	LC-MS/MS	150	163	Y	Y			-1.35	215.2	43.373
2033	623.23	FB3 (ppb)	LC-MS/MS	195	210	Y	Y			-0.29	215.2	43.373
0870	623.23	FB3 (ppb)	LC-MS/MS	240	260	Y	Y			0.80	215.2	43.373
0723	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	40.78	40.78	Y	Y			-4.36	269.6	52.527
0964	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	222	248	Y	Y			-0.66	269.6	52.527
0868	630.03	Ochratoxin A (ppb)	Romer AgraQuant Ochratoxin	204.6	205.7	Y	Y			-1.23	269.6	52.527

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0407	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och	297.7	316.8	Y	Y			0.72	269.6	52.527
2129	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och	359.6	355.2	Y	Y			1.67	269.6	52.527
0226	630.06	Ochratoxin A (ppb)	Vicam OchraTest	122.3	122.3	Y	Y			-2.80	269.6	52.527
2192	630.20	Ochratoxin A (ppb)	LC	135	106	Y	Y			-2.84	269.6	52.527
2066	630.20	Ochratoxin A (ppb)	LC	276	286	Y	Y			0.22	269.6	52.527
0098	630.20	Ochratoxin A (ppb)	LC	334	356	Y	Y			1.44	269.6	52.527
0910	630.21	Ochratoxin A (ppb)	LC-PCD FI	317.7	340.9	Y	Y			1.14	269.6	52.527
0870	630.23	Ochratoxin A (ppb)	LC-MS/MS	260	242	Y	Y			-0.35	269.6	52.527
2033	630.23	Ochratoxin A (ppb)	LC-MS/MS	270	270	Y	Y			0.01	269.6	52.527
0218	630.23	Ochratoxin A (ppb)	LC-MS/MS	279	285	Y	Y			0.24	269.6	52.527
0160	630.23	Ochratoxin A (ppb)	LC-MS/MS	300	300	Y	Y			0.58	269.6	52.527
0913	630.23	Ochratoxin A (ppb)	LC-MS/MS	328.5	272.2	Y	Y			0.59	269.6	52.527
2140	630.23	Ochratoxin A (ppb)	LC-MS/MS	354	297	Y	Y			1.06	269.6	52.527
0964	630.23	Ochratoxin A (ppb)	LC-MS/MS	328	386.8	Y	Y			1.67	269.6	52.527
0918	630.23	Ochratoxin A (ppb)	LC-MS/MS	360	385	Y	Y			1.96	269.6	52.527
2053	630.23	Ochratoxin A (ppb)	LC-MS/MS	419	467	Y	Y			3.30	269.6	52.527
0413	630.23	Ochratoxin A (ppb)	LC-MS/MS			N	N	3	100.00%	NoZ	269.6	52.527
2185	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	118	115	Y	Y			-2.91	269.6	52.527
0870	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	227.4	227.4	Y	Y			-0.80	269.6	52.527
0878	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	281	278	Y	Y			0.19	269.6	52.527
0868	640.03	T-2 (ppb)	Romer AgraQuant T-2	453.8	489.3	Y	Y			0.25	451.6	81.421
0202	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	228.5	242	Y	Y			-2.66	451.6	81.421
0407	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	493.4	510.2	Y	Y			0.62	451.6	81.421
2129	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	527	514	Y	Y			0.85	451.6	81.421
0638	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	720	620	Y	Y			2.68	451.6	81.421
0910	640.21	T-2 (ppb)	LC-PCD FI	344.1	336.2	Y	Y			-1.37	451.6	81.421
0913	640.23	T-2 (ppb)	LC-MS/MS	379.6	362.2	Y	Y			-0.99	451.6	81.421
0918	640.23	T-2 (ppb)	LC-MS/MS	362	392	Y	Y			-0.92	451.6	81.421
2033	640.23	T-2 (ppb)	LC-MS/MS	400	400	Y	Y			-0.63	451.6	81.421
0160	640.23	T-2 (ppb)	LC-MS/MS	430	382	Y	Y			-0.56	451.6	81.421
0870	640.23	T-2 (ppb)	LC-MS/MS	482.3	428.6	Y	Y			0.05	451.6	81.421
0413	640.23	T-2 (ppb)	LC-MS/MS	502	443	Y	Y			0.26	451.6	81.421
2140	640.23	T-2 (ppb)	LC-MS/MS	482	491	Y	Y			0.43	451.6	81.421
0218	640.23	T-2 (ppb)	LC-MS/MS	539	519	Y	Y			0.95	451.6	81.421
2053	640.23	T-2 (ppb)	LC-MS/MS	608	633	Y	Y			2.07	451.6	81.421
0964	640.23	T-2 (ppb)	LC-MS/MS	634	625.2	Y	Y			2.19	451.6	81.421
2185	640.98	T-2 (ppb)	Other Rapid Test Kit	252.6	280.6	Y	Y			-2.27	451.6	81.421
0297	640.98	T-2 (ppb)	Other Rapid Test Kit	400	410	Y	Y			-0.57	451.6	81.421
0878	640.98	T-2 (ppb)	Other Rapid Test Kit	414	430	Y	Y			-0.36	451.6	81.421
0910	641.21	HT-2 (ppb)	LC post-col photochem der. FI	64	65	Y	Y			-2.58	143.9	30.821
0870	641.23	HT-2 (ppb)	LC-MS/MS	123.2	114.6	Y	Y			-0.81	143.9	30.821
0913	641.23	HT-2 (ppb)	LC-MS/MS	98.01	149.2	Y	Y			-0.66	143.9	30.821

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
2033	641.23	HT-2 (ppb)	LC-MS/MS	125	131	Y	Y			-0.52	143.9	30.821
0413	641.23	HT-2 (ppb)	LC-MS/MS	145	136	Y	Y			-0.11	143.9	30.821
0218	641.23	HT-2 (ppb)	LC-MS/MS	147	151	Y	Y			0.16	143.9	30.821
2053	641.23	HT-2 (ppb)	LC-MS/MS	164	164	Y	Y			0.65	143.9	30.821
2140	641.23	HT-2 (ppb)	LC-MS/MS	203	172	Y	Y			1.41	143.9	30.821
0964	641.23	HT-2 (ppb)	LC-MS/MS	171.3	236.3	Y	Y			1.94	143.9	30.821
2192	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	1,228	1,143	Y	Y			-0.76	1,341	205.2
0870	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	2,440	2,352	Y	Y			5.14	1,341	205.2
0590	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	447	464	Y	Y			-4.31	1,341	205.2
0964	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	731.4	700.8	Y	Y			-3.04	1,341	205.2
0045	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	2,000	1,900	Y	Y			2.97	1,341	205.2
0964	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	250.8	234.8	Y	Y			-0.69	280.1	54.258
0870	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	256.1	232.4	Y	Y			-0.66	280.1	54.258
0297	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	298.3	281.4	Y	Y			0.18	280.1	54.258
2022	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	361.3	368	Y	Y			1.56	280.1	54.258
0045	650.02	Zearalenone (ppb)	Charm ROSA Zearalenone Quant	250	150	Y	Y			-1.48	280.1	54.258
0043	650.04	Zearalenone (ppb)	Romer AgraQuant ZON	313.3	316.7	Y	Y			0.64	280.1	54.258
0868	650.04	Zearalenone (ppb)	Romer AgraQuant ZON	325	325	Y	Y			0.83	280.1	54.258
0723	650.04	Zearalenone (ppb)	Romer AgraQuant ZON	395.7	395.7	Y	Y			2.13	280.1	54.258
2066	650.05	Zearalenone (ppb)	r-Biopharm Ridascreen Zearaleno	290	222	Y	Y			-0.44	280.1	54.258
0202	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	177.8	189.2	Y	Y			-1.78	280.1	54.258
2129	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	254	254	Y	Y			-0.48	280.1	54.258
0590	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	265	282	Y	Y			-0.12	280.1	54.258
0035	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	177.9	178.4	Y	Y			-1.88	280.1	54.258
0407	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	270.1	277.5	Y	Y			-0.12	280.1	54.258
0098	650.20	Zearalenone (ppb)	LC	190	210	Y	Y			-1.48	280.1	54.258
2192	650.20	Zearalenone (ppb)	LC	289	265	Y	Y			-0.06	280.1	54.258
0910	650.20	Zearalenone (ppb)	LC	286	293	Y	Y			0.17	280.1	54.258
0868	650.20	Zearalenone (ppb)	LC	330	343	Y	Y			1.04	280.1	54.258
0413	650.20	Zearalenone (ppb)	LC	390	390	Y	Y			2.03	280.1	54.258
0226	650.22	Zearalenone (ppb)	LC-FI, AOCS			N	N	0.25	100.00%	NoZ	280.1	54.258
0964	650.23	Zearalenone (ppb)	LC-MS	188.3	202.8	Y	Y			-1.56	280.1	54.258
0160	650.23	Zearalenone (ppb)	LC-MS	286	221	Y	Y			-0.49	280.1	54.258
0918	650.24	Zearalenone (ppb)	LC-MS/MS	172	191	Y	Y			-1.82	280.1	54.258
0870	650.24	Zearalenone (ppb)	LC-MS/MS	186	185.6	Y	Y			-1.74	280.1	54.258
2033	650.24	Zearalenone (ppb)	LC-MS/MS	260	220	Y	Y			-0.74	280.1	54.258
2140	650.24	Zearalenone (ppb)	LC-MS/MS	206	277	Y	Y			-0.71	280.1	54.258
0913	650.24	Zearalenone (ppb)	LC-MS/MS	252.8	332.1	Y	Y			0.23	280.1	54.258
0218	650.24	Zearalenone (ppb)	LC-MS/MS	320	316	Y	Y			0.70	280.1	54.258
2053	650.24	Zearalenone (ppb)	LC-MS/MS	353	374	Y	Y			1.54	280.1	54.258
0413	650.24	Zearalenone (ppb)	LC-MS/MS	407	401	Y	Y			2.28	280.1	54.258
0868	650.98	Zearalenone (ppb)	Other Rapid Test Kit	302	307	Y	Y			0.45	280.1	54.258

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0878	650.98	Zearalenone (ppb)	Other Rapid Test Kit	291	332	Y	Y			0.58	280.1	54.258
2185	650.98	Zearalenone (ppb)	Other Rapid Test Kit	396.5	386	Y	Y			2.05	280.1	54.258

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 astrix 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