

Mycotoxin Proficiency Testing, Z Scored Against Robust Consensus

Number of Labs Participating: 51
Issue Date: 05/31/2018

Analytes for Sample # 201862: Dog Food

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					
0413	600.24	Total Aflatoxin (ppb)	LC-MS/MS	4	3.8	Y	Y			-2.91	10.87	2.391
2192	600.20	Total Aflatoxin (ppb)	LC	5.81	5.55	Y	Y			-2.17	10.87	2.391
0003	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	5.5	6	Y	Y			-2.14	10.87	2.391
0202	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	5.8	5.88	Y	Y			-2.10	10.87	2.391
2129	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	6.48	6.6	Y	Y			-1.81	10.87	2.391
0066	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	6.18	7.23	Y	Y			-1.74	10.87	2.391
2050	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	7.8	8.3	Y	Y			-1.18	10.87	2.391
2022	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	7.8	8.33	Y	Y			-1.17	10.87	2.391
0027	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	9.3	7.5	Y	Y			-1.03	10.87	2.391
0590	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	9.26	8.59	Y	Y			-0.81	10.87	2.391
0407	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	10.14	8.36	Y	Y			-0.68	10.87	2.391
0226	600.20	Total Aflatoxin (ppb)	LC	8.8	10	Y	Y			-0.61	10.87	2.391
0674	600.08	Total Aflatoxin (ppb)	Romer AgraQuant Total Afl 4-40ppb	9.79	9.79	Y	Y			-0.45	10.87	2.391
2033	600.24	Total Aflatoxin (ppb)	LC-MS/MS	9.8	9.8	Y	Y			-0.45	10.87	2.391
0042	600.20	Total Aflatoxin (ppb)	LC	10	10	Y	Y			-0.36	10.87	2.391
0964	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	11.1	10.5	Y	Y			-0.03	10.87	2.391
0208	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	9.74	11.9	Y	Y			-0.02	10.87	2.391
2113	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	12	9.8	Y	Y			0.01	10.87	2.391
0032	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	11.5	11.2	Y	Y			0.20	10.87	2.391
0297	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	10.3	12.5	Y	Y			0.22	10.87	2.391
0227	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	10	13	Y	Y			0.26	10.87	2.391
0034	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	11.25	11.95	Y	Y			0.31	10.87	2.391
0723	600.07	Total Aflatoxin (ppb)	Romer AgraQuant Total Afl 1-20ppb	11.91	11.91	Y	Y			0.43	10.87	2.391
0045	600.04	Total Aflatoxin (ppb)	Charm ROSA Fast 5 Aflatoxin Quant	13	11	Y	Y			0.47	10.87	2.391
0004	600.14	Total Aflatoxin (ppb)	Vicam Aflatest	12	12	Y	Y			0.47	10.87	2.391
2096	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	12	12.8	Y	Y			0.64	10.87	2.391
0590	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	13.53	12.08	Y	Y			0.81	10.87	2.391
0511	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	12.6	13.3	Y	Y			0.87	10.87	2.391
0098	600.21	Total Aflatoxin (ppb)	LC-PCD FI	13.9	12.59	Y	Y			0.99	10.87	2.391
0619	600.24	Total Aflatoxin (ppb)	LC-MS/MS	15.8	11.5	Y	Y			1.16	10.87	2.391
0870	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	13.5	14	Y	Y			1.20	10.87	2.391
0010	600.20	Total Aflatoxin (ppb)	LC	12	19	Y	Y			1.94	10.87	2.391
0043	600.08	Total Aflatoxin (ppb)	Romer AgraQuant Total Afl 4-40ppb	16.33	16.26	Y	Y			2.27	10.87	2.391
0674	600.10	Total Aflatoxin (ppb)	TLC	18.45	18.45	Y	Y			3.17	10.87	2.391
0554	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	21.6	15.7	Y	Y			3.25	10.87	2.391

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0964	600.24	Total Aflatoxin (ppb)	LC-MS/MS	18.81	19.87	Y	Y			3.54	10.87	2.391
2169	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit			N	N	2	99.99%	NoZ	10.87	2.391
0413	601.23	AB1 (ppb)	LC-MS/MS	2	2	Y	Y			-3.80	12.196	2.683
2192	601.20	AB1 (ppb)	LC	4.31	4.1	Y	Y			-2.98	12.196	2.683
2053	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	7.5	9.7	Y	Y			-1.34	12.196	2.683
2033	601.23	AB1 (ppb)	LC-MS/MS	8.9	9.1	Y	Y			-1.19	12.196	2.683
0226	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	8.8	10	Y	Y			-1.04	12.196	2.683
0870	601.23	AB1 (ppb)	LC-MS/MS	10.62	10.46	Y	Y			-0.62	12.196	2.683
2185	601.98	AB1 (ppb)	Other Rapid Test Kit	10.79	10.86	Y	Y			-0.51	12.196	2.683
2207	601.23	AB1 (ppb)	LC-MS/MS	11	11	Y	Y			-0.45	12.196	2.683
0878	601.98	AB1 (ppb)	Other Rapid Test Kit	11.1	12	Y	Y			-0.24	12.196	2.683
0098	601.21	AB1 (ppb)	LC-PCD FI	12.44	11.12	Y	Y			-0.16	12.196	2.683
0563	601.20	AB1 (ppb)	LC	12.1	11.5	Y	Y			-0.15	12.196	2.683
0028	601.23	AB1 (ppb)	LC-MS/MS	12.532	13.225	Y	Y			0.25	12.196	2.683
0918	601.23	AB1 (ppb)	LC-MS/MS	13.9	12	Y	Y			0.28	12.196	2.683
0619	601.23	AB1 (ppb)	LC-MS/MS	14.2	11.8	Y	Y			0.30	12.196	2.683
0009	601.23	AB1 (ppb)	LC-MS/MS	11.9	14.23	Y	Y			0.32	12.196	2.683
0868	601.91	AB1 (ppb)	Romer AgraQuant Afl B1	13	13.2	Y	Y			0.34	12.196	2.683
0910	601.21	AB1 (ppb)	LC-PCD FI	14.56	12.34	Y	Y			0.47	12.196	2.683
2140	601.23	AB1 (ppb)	LC-MS/MS	14	14	Y	Y			0.67	12.196	2.683
0868	601.98	AB1 (ppb)	Other Rapid Test Kit	14.2	14.9	Y	Y			0.88	12.196	2.683
0913	601.23	AB1 (ppb)	LC-MS/MS	14.41	15.08	Y	Y			0.95	12.196	2.683
0868	601.21	AB1 (ppb)	LC-PCD FI	15.32	15.67	Y	Y			1.23	12.196	2.683
0964	601.23	AB1 (ppb)	LC-MS/MS	17.3	18	Y	Y			2.03	12.196	2.683
0553	601.23	AB1 (ppb)	LC-MS/MS	20.38	21.79	Y	Y			3.31	12.196	2.683
2192	602.20	AB2 (ppb)	LC	0.49	0.4	Y	Y			-2.92	1.248	0.275
2033	602.23	AB2 (ppb)	LC-MS/MS	0.832	0.742	Y	Y			-1.68	1.248	0.275
2053	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	0.9	1	Y	Y			-1.09	1.248	0.275
0553	602.23	AB2 (ppb)	LC-MS/MS	1	1	Y	Y			-0.90	1.248	0.275
0009	602.23	AB2 (ppb)	LC-MS/MS	1.26	1.11	Y	Y			-0.23	1.248	0.275
0910	602.21	AB2 (ppb)	LC-PCD FI	1.31	1.16	Y	Y			-0.05	1.248	0.275
0913	602.23	AB2 (ppb)	LC-MS/MS	1.25	1.41	Y	Y			0.30	1.248	0.275
0870	602.23	AB2 (ppb)	LC-MS/MS	1.26	1.44	Y	Y			0.37	1.248	0.275
0098	602.21	AB2 (ppb)	LC-PCD FI	1.46	1.47	Y	Y			0.79	1.248	0.275
0918	602.23	AB2 (ppb)	LC-MS/MS	1.56	1.42	Y	Y			0.88	1.248	0.275
0964	602.23	AB2 (ppb)	LC-MS/MS	1.51	1.87	Y	Y			1.61	1.248	0.275
0868	602.21	AB2 (ppb)	LC-PCD FI	1.91	1.98	Y	Y			2.54	1.248	0.275
0619	602.23	AB2 (ppb)	LC-MS/MS	[1.58]	[0]	Y	Y				1.248	0.275
0028	602.23	AB2 (ppb)	LC-MS/MS			N	N	0.1	100.00%	NoZ	1.248	0.275
0413	602.23	AB2 (ppb)	LC-MS/MS			N	N	1	81.70%	NoZ	1.248	0.275
2140	602.23	AB2 (ppb)	LC-MS/MS			N	N	20	0.00%	NoZ	1.248	0.275
2207	602.23	AB2 (ppb)	LC-MS/MS			N	N	1	81.70%	NoZ	1.248	0.275
0226	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI			N	N	1	81.70%	NoZ	1.248	0.275

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0910	603.21	AG1 (ppb)	LC-PCD FI	0.23	0.24	Y	Y			-2.82	0.618	0.136
0918	603.23	AG1 (ppb)	LC-MS/MS	0.3	0.8	Y	Y			-0.50	0.618	0.136
0553	603.23	AG1 (ppb)	LC-MS/MS	1	1	Y	Y			2.82	0.618	0.136
0619	603.23	AG1 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				0.618	0.136
0098	603.21	AG1 (ppb)	LC-PCD FI			N	N	15	0.00%	NoZ	0.618	0.136
0009	603.23	AG1 (ppb)	LC-MS/MS			N	N	3.19	0.00%	NoZ	0.618	0.136
0413	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	0.24%	NoZ	0.618	0.136
0870	603.23	AG1 (ppb)	LC-MS/MS			N	N	0.6	55.12%	NoZ	0.618	0.136
0913	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	0.24%	NoZ	0.618	0.136
0964	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	0.24%	NoZ	0.618	0.136
2033	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	0.24%	NoZ	0.618	0.136
2140	603.23	AG1 (ppb)	LC-MS/MS			N	N	20	0.00%	NoZ	0.618	0.136
2207	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	0.24%	NoZ	0.618	0.136
0226	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI			N	N	2	0.00%	NoZ	0.618	0.136
2053	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI			N	N	0.1	99.99%	NoZ	0.618	0.136
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	[0]	[0]	Y	Y				ND	
0413	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
0553	604.23	AG2 (ppb)	LC-MS/MS	1	1	Y	Y				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	
0913	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
0918	604.23	AG2 (ppb)	LC-MS/MS		0.09	N	Y	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	
2140	604.23	AG2 (ppb)	LC-MS/MS			N	N	20			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	
0554	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	[0.3]	[1.3]	Y	Y			-6.59	1,431	216.9
0674	610.03	Deoxynivalenol (ppb)	Charm ROSA DON Quant	[0.8]	[0.8]	Y	Y			-6.59	1,431	216.9
0047	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	[1.2]	[1.2]	Y	Y			-6.59	1,431	216.9
0032	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	[1.4]	[1.1]	Y	Y			-6.59	1,431	216.9
0297	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	[1.3]	[1.3]	Y	Y			-6.59	1,431	216.9
2066	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	[1.45]	[1.47]	Y	Y			-6.59	1,431	216.9
2192	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	[1.6]	[1.67]	Y	Y			-6.59	1,431	216.9
2129	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	832	850	Y	Y			-2.72	1,431	216.9
0045	610.04	Deoxynivalenol (ppb)	Charm ROSA Fast 5 DON Quant	700	1,200	Y	Y			-2.22	1,431	216.9
0028	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,034	941	Y	Y			-2.04	1,431	216.9
0868	610.20	Deoxynivalenol (ppb)	LC	1,010	983	Y	Y			-2.00	1,431	216.9
2050	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1,100	950	Y	Y			-1.87	1,431	216.9
0913	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,140	990	Y	Y			-1.69	1,431	216.9

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0619	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,091	1,102	Y	Y			-1.54	1,431	216.9
2169	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1,200	1,000	Y	Y			-1.53	1,431	216.9
0202	610.06	Deoxynivalenol (ppb)	r-Biopharm Ridascreen DON	1,130	1,190	Y	Y			-1.25	1,431	216.9
0870	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1,180	1,200	Y	Y			-1.11	1,431	216.9
0098	610.20	Deoxynivalenol (ppb)	LC	1,200	1,200	Y	Y			-1.06	1,431	216.9
0638	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1,200	1,220	Y	Y			-1.02	1,431	216.9
0590	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1,260	1,220	Y	Y			-0.88	1,431	216.9
0553	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,280	1,332	Y	Y			-0.58	1,431	216.9
0066	610.08	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1,230	1,400	Y	Y			-0.53	1,431	216.9
0868	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1,310	1,360	Y	Y			-0.44	1,431	216.9
0918	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,380	1,370	Y	Y			-0.26	1,431	216.9
0878	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1,420	1,330	Y	Y			-0.26	1,431	216.9
0009	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1,305	1,480	Y	Y			-0.18	1,431	216.9
2113	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,600	1,200	Y	Y			-0.14	1,431	216.9
0910	610.20	Deoxynivalenol (ppb)	LC	1,410	1,410	Y	Y			-0.10	1,431	216.9
0868	610.05	Deoxynivalenol (ppb)	Romer AgraQuant DON	1,430	1,450	Y	Y			0.04	1,431	216.9
0870	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,520	1,420	Y	Y			0.18	1,431	216.9
0010	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,563	1,429	Y	Y			0.30	1,431	216.9
2207	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,470	1,530	Y	Y			0.32	1,431	216.9
2140	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,569	1,452	Y	Y			0.37	1,431	216.9
0407	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1,581	1,474	Y	Y			0.45	1,431	216.9
0027	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,500	1,600	Y	Y			0.55	1,431	216.9
0413	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,600	1,500	Y	Y			0.55	1,431	216.9
0964	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,600	1,500	Y	Y			0.55	1,431	216.9
0033	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,470	1,640	Y	Y			0.57	1,431	216.9
0226	610.09	Deoxynivalenol (ppb)	Vicam DON-V	1,600	1,600	Y	Y			0.78	1,431	216.9
0563	610.25	Deoxynivalenol (ppb)	GC-MS	1,460	1,798	Y	Y			0.91	1,431	216.9
0208	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,640	1,630	Y	Y			0.94	1,431	216.9
0870	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,800	1,500	Y	Y			1.01	1,431	216.9
0413	610.20	Deoxynivalenol (ppb)	LC	1,600	1,700	Y	Y			1.01	1,431	216.9
2033	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,740	1,600	Y	Y			1.10	1,431	216.9
2053	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,730	1,640	Y	Y			1.17	1,431	216.9
0227	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,500	1,900	Y	Y			1.24	1,431	216.9
2022	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,690	1,730	Y	Y			1.29	1,431	216.9
0043	610.05	Deoxynivalenol (ppb)	Romer AgraQuant DON	1,810	1,613	Y	Y			1.29	1,431	216.9
0511	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,800	1,900	Y	Y			1.93	1,431	216.9
0723	610.05	Deoxynivalenol (ppb)	Romer AgraQuant DON	1,850	1,850	Y	Y			1.93	1,431	216.9
0964	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,858	1,874	Y	Y			2.01	1,431	216.9
2185	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	2,469	2,536	Y	Y			4.94	1,431	216.9
0554	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	[0.2]	[0.6]	Y	Y			-6.88	1,897	275.6
0674	620.05	Total Fumonisin (ppb)	Charm ROSA FUMQ MeOH	[1.4]	[1.4]	Y	Y			-6.88	1,897	275.6
0032	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	[2]	[2]	Y	Y			-6.88	1,897	275.6
2192	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	[4.4]	[4.3]	Y	Y			-6.87	1,897	275.6

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	1,100	1,200	Y	Y			-2.71	1,897	275.6
0964	620.23	Total Fumonisin (ppb)	LC-MS/MS	1,390	1,373	Y	Y			-1.87	1,897	275.6
0042	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	1,400	1,400	Y	Y			-1.80	1,897	275.6
0619	620.23	Total Fumonisin (ppb)	LC-MS/MS	1,539	1,494	Y	Y			-1.38	1,897	275.6
2066	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	1,540	1,590	Y	Y			-1.20	1,897	275.6
0511	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	1,600	1,700	Y	Y			-0.90	1,897	275.6
0010	620.23	Total Fumonisin (ppb)	LC-MS/MS	1,600	1,700	Y	Y			-0.90	1,897	275.6
2113	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	1,400	1,900	Y	Y			-0.90	1,897	275.6
2033	620.23	Total Fumonisin (ppb)	LC-MS/MS	1,659	1,650	Y	Y			-0.88	1,897	275.6
0027	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	1,890	1,510	Y	Y			-0.71	1,897	275.6
0870	620.02	Total Fumonisin (ppb)	Neogen Veratox Fumonisin 5/10	1,580	1,840	Y	Y			-0.68	1,897	275.6
0202	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	1,718	1,737	Y	Y			-0.62	1,897	275.6
0208	620.20	Total Fumonisin (ppb)	LC	1,900	1,800	Y	Y			-0.17	1,897	275.6
0878	620.98	Total Fumonisin (ppb)	Other Rapid Test Kit	2,040	1,910	Y	Y			0.28	1,897	275.6
0227	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	2,000	2,000	Y	Y			0.37	1,897	275.6
2022	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	1,990	2,030	Y	Y			0.41	1,897	275.6
2129	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	1,964	2,113	Y	Y			0.51	1,897	275.6
0868	620.07	Total Fumonisin (ppb)	Romer AgraQuant Total Fumonisir	2,030	2,080	Y	Y			0.57	1,897	275.6
0407	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	2,020	2,129	Y	Y			0.64	1,897	275.6
0964	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	2,300	2,400	Y	Y			1.64	1,897	275.6
0226	620.21	Total Fumonisin (ppb)	LC-FI OPA der.	2,900	2,700	Y	Y			3.28	1,897	275.6
0066	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	3,130	2,900	Y	Y			4.06	1,897	275.6
0413	620.23	Total Fumonisin (ppb)	LC-MS/MS	3,732	2,698	Y	Y			4.78	1,897	275.6
0045	620.04	Total Fumonisin (ppb)	Charm ROSA Fast 5 FUMQ	4,000	3,000	Y	Y			5.82	1,897	275.6
0098	621.20	FB1 (ppb)	LC	900	1,000	Y	Y			-2.70	1,591	237.3
2207	621.23	FB1 (ppb)	LC-MS/MS	1,000	900	Y	Y			-2.70	1,591	237.3
0964	621.23	FB1 (ppb)	LC-MS/MS	1,035	1,022	Y	Y			-2.37	1,591	237.3
0619	621.23	FB1 (ppb)	LC-MS/MS	1,281	1,220	Y	Y			-1.43	1,591	237.3
0870	621.23	FB1 (ppb)	LC-MS/MS	1,320	1,260	Y	Y			-1.27	1,591	237.3
0913	621.23	FB1 (ppb)	LC-MS/MS	1,390	1,200	Y	Y			-1.25	1,591	237.3
0553	621.23	FB1 (ppb)	LC-MS/MS	1,344	1,325	Y	Y			-1.08	1,591	237.3
2185	621.98	FB1 (ppb)	Other Rapid Test Kit	1,645	1,693	Y	Y			0.33	1,591	237.3
2140	621.23	FB1 (ppb)	LC-MS/MS	1,765	1,597	Y	Y			0.38	1,591	237.3
0563	621.20	FB1 (ppb)	LC	1,845	2,252	Y	Y			1.93	1,591	237.3
0226	621.21	FB1 (ppb)	LC-FI OPA der.	2,300	2,100	Y	Y			2.57	1,591	237.3
2053	621.22	FB1 (ppb)	LC-MS	2,596	2,298	Y	Y			3.61	1,591	237.3
0413	621.23	FB1 (ppb)	LC-MS/MS	3,687	2,663	Y	Y			6.68	1,591	237.3
0913	622.23	FB2 (ppb)	LC-MS/MS	240	150	Y	Y			-2.27	339.9	63.963
0098	622.20	FB2 (ppb)	LC	200	200	Y	Y			-2.19	339.9	63.963
2207	622.23	FB2 (ppb)	LC-MS/MS	300	200	Y	Y			-1.41	339.9	63.963
0870	622.23	FB2 (ppb)	LC-MS/MS	260	260	Y	Y			-1.25	339.9	63.963
0619	622.23	FB2 (ppb)	LC-MS/MS	257	274	Y	Y			-1.16	339.9	63.963
0964	622.23	FB2 (ppb)	LC-MS/MS	355.2	350.4	Y	Y			0.20	339.9	63.963

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
2140	622.23	FB2 (ppb)	LC-MS/MS	403	379	Y	Y			0.80	339.9	63.963
0553	622.23	FB2 (ppb)	LC-MS/MS	398.6	396.8	Y	Y			0.90	339.9	63.963
2053	622.22	FB2 (ppb)	LC-MS	574	481	Y	Y			2.93	339.9	63.963
0226	622.21	FB2 (ppb)	LC-FI OPA der.	700	600	Y	Y			4.85	339.9	63.963
0413	622.23	FB2 (ppb)	LC-MS/MS			N	N	100	99.99%	NoZ	339.9	63.963
0913	623.23	FB3 (ppb)	LC-MS/MS	150	130	Y	Y			-1.48	200.2	40.796
0870	623.23	FB3 (ppb)	LC-MS/MS	160	160	Y	Y			-0.99	200.2	40.796
0553	623.23	FB3 (ppb)	LC-MS/MS	206.6	214	Y	Y			0.25	200.2	40.796
2053	623.22	FB3 (ppb)	LC-MS	315	266	Y	Y			2.21	200.2	40.796
0226	623.21	FB3 (ppb)	LC-FI OPA der.			N	N	400	0.00%	NoZ	200.2	40.796
2022	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	47.2	47.97	Y	Y			-4.52	328.8	62.19
0674	630.20	Ochratoxin A (ppb)	LC	76.19	76.19	Y	Y			-4.06	328.8	62.19
0674	630.03	Ochratoxin A (ppb)	Romer AgraQuant Ochratoxin	96.66	96.66	Y	Y			-3.73	328.8	62.19
0047	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	100.7	102.6	Y	Y			-3.65	328.8	62.19
0066	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och	102.1	103.1	Y	Y			-3.64	328.8	62.19
2207	630.23	Ochratoxin A (ppb)	LC-MS/MS	105	103	Y	Y			-3.62	328.8	62.19
0723	630.03	Ochratoxin A (ppb)	Romer AgraQuant Ochratoxin	120.4	120.4	Y	Y			-3.35	328.8	62.19
2033	630.23	Ochratoxin A (ppb)	LC-MS/MS	190	180	Y	Y			-2.31	328.8	62.19
2066	630.20	Ochratoxin A (ppb)	LC	226	214	Y	Y			-1.75	328.8	62.19
0870	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	227.8	230.8	Y	Y			-1.60	328.8	62.19
2185	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	252	261	Y	Y			-1.16	328.8	62.19
2066	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och	295	269	Y	Y			-0.75	328.8	62.19
0964	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	280.6	285.1	Y	Y			-0.74	328.8	62.19
0870	630.23	Ochratoxin A (ppb)	LC-MS/MS	248	324	Y	Y			-0.69	328.8	62.19
0563	630.20	Ochratoxin A (ppb)	LC	295.7	314.8	Y	Y			-0.38	328.8	62.19
0868	630.03	Ochratoxin A (ppb)	Romer AgraQuant Ochratoxin	342	349.2	Y	Y			0.27	328.8	62.19
0227	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	376	368	Y	Y			0.69	328.8	62.19
0910	630.21	Ochratoxin A (ppb)	LC-PCD FI	355.2	400.1	Y	Y			0.78	328.8	62.19
0003	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	406	380	Y	Y			1.03	328.8	62.19
0619	630.23	Ochratoxin A (ppb)	LC-MS/MS	428	391	Y	Y			1.30	328.8	62.19
0913	630.23	Ochratoxin A (ppb)	LC-MS/MS	431	429.1	Y	Y			1.63	328.8	62.19
0878	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	422.5	441.4	Y	Y			1.66	328.8	62.19
0098	630.20	Ochratoxin A (ppb)	LC	492	463	Y	Y			2.39	328.8	62.19
2140	630.23	Ochratoxin A (ppb)	LC-MS/MS	512	446	Y	Y			2.41	328.8	62.19
2129	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och	483.8	513	Y	Y			2.73	328.8	62.19
0553	630.23	Ochratoxin A (ppb)	LC-MS/MS	480.2	517.4	Y	Y			2.73	328.8	62.19
0918	630.23	Ochratoxin A (ppb)	LC-MS/MS	416	595	Y	Y			2.84	328.8	62.19
0407	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och	555.2	459.7	Y	Y			2.87	328.8	62.19
0010	630.23	Ochratoxin A (ppb)	LC-MS/MS	573	555	Y	Y			3.78	328.8	62.19
0964	630.23	Ochratoxin A (ppb)	LC-MS/MS	588.1	595.4	Y	Y			4.23	328.8	62.19
2053	630.23	Ochratoxin A (ppb)	LC-MS/MS	612	656	Y	Y			4.91	328.8	62.19
0413	630.23	Ochratoxin A (ppb)	LC-MS/MS	2,395	2,335	Y	Y			32.74	328.8	62.19
0226	630.06	Ochratoxin A (ppb)	Vicam OchraTest			N	N	46	100.00%	NoZ	328.8	62.19

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
2185	640.98	T-2 (ppb)	Other Rapid Test Kit	13.7	14.1	Y	Y			-4.09	127.8	27.857
0910	640.21	T-2 (ppb)	LC-PCD FI	70.1	69.1	Y	Y			-2.09	127.8	27.857
0878	640.98	T-2 (ppb)	Other Rapid Test Kit	88	98.3	Y	Y			-1.24	127.8	27.857
2033	640.23	T-2 (ppb)	LC-MS/MS	100	100	Y	Y			-1.00	127.8	27.857
0413	640.23	T-2 (ppb)	LC-MS/MS	95.5	105.3	Y	Y			-0.98	127.8	27.857
0918	640.23	T-2 (ppb)	LC-MS/MS	116	90.7	Y	Y			-0.88	127.8	27.857
0619	640.23	T-2 (ppb)	LC-MS/MS	117	106	Y	Y			-0.58	127.8	27.857
0870	640.23	T-2 (ppb)	LC-MS/MS	116.5	110.9	Y	Y			-0.51	127.8	27.857
0868	640.03	T-2 (ppb)	Romer AgraQuant T-2	119.2	120.3	Y	Y			-0.29	127.8	27.857
0638	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	115	125	Y	Y			-0.28	127.8	27.857
0913	640.23	T-2 (ppb)	LC-MS/MS	120.6	122.3	Y	Y			-0.23	127.8	27.857
0553	640.23	T-2 (ppb)	LC-MS/MS	118.3	145.7	Y	Y			0.15	127.8	27.857
0202	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	132.7	146.7	Y	Y			0.43	127.8	27.857
2140	640.23	T-2 (ppb)	LC-MS/MS	150	131	Y	Y			0.46	127.8	27.857
0297	640.98	T-2 (ppb)	Other Rapid Test Kit	139	143	Y	Y			0.48	127.8	27.857
0407	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	146.4	138.6	Y	Y			0.53	127.8	27.857
2053	640.23	T-2 (ppb)	LC-MS/MS	145	140	Y	Y			0.53	127.8	27.857
2129	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	143.4	145.5	Y	Y			0.60	127.8	27.857
2207	640.23	T-2 (ppb)	LC-MS/MS	170	140	Y	Y			0.98	127.8	27.857
0066	640.03	T-2 (ppb)	Romer AgraQuant T-2	200.9	196.6	Y	Y			2.55	127.8	27.857
0964	640.23	T-2 (ppb)	LC-MS/MS	245.9	243.3	Y	Y			4.19	127.8	27.857
0563	640.25	T-2 (ppb)	GC-MS	405	550	Y	Y			12.55	127.8	27.857
0910	641.21	HT-2 (ppb)	LC post-col photochem der. FI	53	64	Y	Y			-2.61	134.4	29.072
0870	641.23	HT-2 (ppb)	LC-MS/MS	96.18	98.62	Y	Y			-1.27	134.4	29.072
2033	641.23	HT-2 (ppb)	LC-MS/MS	118	125	Y	Y			-0.44	134.4	29.072
0913	641.23	HT-2 (ppb)	LC-MS/MS	140.1	113.2	Y	Y			-0.26	134.4	29.072
2053	641.23	HT-2 (ppb)	LC-MS/MS	134	121	Y	Y			-0.24	134.4	29.072
0619	641.23	HT-2 (ppb)	LC-MS/MS	133	129	Y	Y			-0.12	134.4	29.072
2207	641.23	HT-2 (ppb)	LC-MS/MS	140	140	Y	Y			0.19	134.4	29.072
0413	641.23	HT-2 (ppb)	LC-MS/MS	160	172.9	Y	Y			1.10	134.4	29.072
2140	641.23	HT-2 (ppb)	LC-MS/MS	163	185	Y	Y			1.36	134.4	29.072
0964	641.23	HT-2 (ppb)	LC-MS/MS	182.5	176.2	Y	Y			1.55	134.4	29.072
0590	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	231	175	Y	Y			-2.66	396.8	72.947
0870	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	238.5	208	Y	Y			-2.38	396.8	72.947
0964	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	326.9	301.6	Y	Y			-1.13	396.8	72.947
0227	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	338	327	Y	Y			-0.88	396.8	72.947
2022	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	341.5	355.7	Y	Y			-0.66	396.8	72.947
0964	642.04	T-2 + HT-2 (ppb)	LC-MS	428.4	419.5	Y	Y			0.37	396.8	72.947
0045	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	750	500	Y	Y			3.13	396.8	72.947
2192	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	5,806	780.2	Y	Y			39.70	396.8	72.947
0674	650.02	Zearalenone (ppb)	Charm ROSA Zearalenone Quant	0.27	0.27	Y	Y			-5.76	584.3	101.3
0066	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	275.9	276	Y	Y			-3.04	584.3	101.3
0297	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	280	286	Y	Y			-2.97	584.3	101.3

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0870	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	347.1	316.8	Y	Y			-2.49	584.3	101.3
0202	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	321.3	379.3	Y	Y			-2.31	584.3	101.3
0027	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	389.2	405.6	Y	Y			-1.84	584.3	101.3
0003	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	397.4	400.7	Y	Y			-1.83	584.3	101.3
2207	650.24	Zearalenone (ppb)	LC-MS/MS	400	400	Y	Y			-1.82	584.3	101.3
0407	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	374.2	440.1	Y	Y			-1.75	584.3	101.3
2129	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	413.9	429.5	Y	Y			-1.60	584.3	101.3
0870	650.24	Zearalenone (ppb)	LC-MS/MS	454.2	435.6	Y	Y			-1.38	584.3	101.3
0590	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	476	460	Y	Y			-1.15	584.3	101.3
0045	650.02	Zearalenone (ppb)	Charm ROSA Zearalenone Quant	294	688	Y	Y			-0.92	584.3	101.3
0964	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	528.6	532.7	Y	Y			-0.53	584.3	101.3
2185	650.98	Zearalenone (ppb)	Other Rapid Test Kit	537	549	Y	Y			-0.41	584.3	101.3
0878	650.98	Zearalenone (ppb)	Other Rapid Test Kit	604	603	Y	Y			0.19	584.3	101.3
0964	650.24	Zearalenone (ppb)	LC-MS/MS	599.5	613.6	Y	Y			0.22	584.3	101.3
2192	650.20	Zearalenone (ppb)	LC	544.8	669.5	Y	Y			0.23	584.3	101.3
0098	650.20	Zearalenone (ppb)	LC	650	630	Y	Y			0.55	584.3	101.3
0619	650.24	Zearalenone (ppb)	LC-MS/MS	627	684	Y	Y			0.70	584.3	101.3
0413	650.20	Zearalenone (ppb)	LC	680	640	Y	Y			0.75	584.3	101.3
0918	650.24	Zearalenone (ppb)	LC-MS/MS	723.2	610	Y	Y			0.81	584.3	101.3
0413	650.24	Zearalenone (ppb)	LC-MS/MS	708	636	Y	Y			0.87	584.3	101.3
0723	650.04	Zearalenone (ppb)	Romer AgraQuant ZON	673.5	673.5	Y	Y			0.88	584.3	101.3
0910	650.20	Zearalenone (ppb)	LC	596	757	Y	Y			0.91	584.3	101.3
2022	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	681.3	688.8	Y	Y			0.99	584.3	101.3
0563	650.20	Zearalenone (ppb)	LC	662.4	709.9	Y	Y			1.00	584.3	101.3
0868	650.04	Zearalenone (ppb)	Romer AgraQuant ZON	684	701	Y	Y			1.07	584.3	101.3
0868	650.20	Zearalenone (ppb)	LC	703	694	Y	Y			1.13	584.3	101.3
0868	650.98	Zearalenone (ppb)	Other Rapid Test Kit	699	704	Y	Y			1.16	584.3	101.3
2033	650.24	Zearalenone (ppb)	LC-MS/MS	700	750	Y	Y			1.39	584.3	101.3
0913	650.24	Zearalenone (ppb)	LC-MS/MS	794.3	655.9	Y	Y			1.39	584.3	101.3
0553	650.24	Zearalenone (ppb)	LC-MS/MS	841.7	722	Y	Y			1.95	584.3	101.3
2140	650.24	Zearalenone (ppb)	LC-MS/MS	881	700	Y	Y			2.03	584.3	101.3
0010	650.24	Zearalenone (ppb)	LC-MS/MS	897	815	Y	Y			2.68	584.3	101.3
2053	650.24	Zearalenone (ppb)	LC-MS/MS	871	951	Y	Y			3.22	584.3	101.3
0043	650.04	Zearalenone (ppb)	Romer AgraQuant ZON	917	997	Y	Y			3.68	584.3	101.3
0226	650.22	Zearalenone (ppb)	LC-FI, AOCS			N	N	2500	0.00%	NoZ	584.3	101.3

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 < 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 removed from Robust calculations.