

Mycotoxin Proficiency Testing, Z Scored Against Robust Consensus

Issue Date: 07/31/2017

Analytes for Sample # 201762 Dairy 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					
2129	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	7.2	7.4	Y	Y			-2.07	13.408	2.95
0004	600.14	Total Aflatoxin (ppb)	Vicam Aflatest	6.3	8.7	Y	Y			-2.00	13.408	2.95
2098	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	8.8	7.3	Y	Y			-1.82	13.408	2.95
2169	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	8.6	7.9	Y	Y			-1.75	13.408	2.95
0619	600.24	Total Aflatoxin (ppb)	LC-MS/MS	8.56	8.76	Y	Y			-1.61	13.408	2.95
0590	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	9.39	9.39	Y	Y			-1.36	13.408	2.95
2050	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	9.5	9.7	Y	Y			-1.29	13.408	2.95
0297	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	10	10.5	Y	Y			-1.07	13.408	2.95
2066	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	10.19	10.83	Y	Y			-0.98	13.408	2.95
0066	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl SC	9.4	11.64	Y	Y			-0.98	13.408	2.95
0870	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	11.8	11.1	Y	Y			-0.66	13.408	2.95
0027	600.21	Total Aflatoxin (ppb)	LC-PCD FI	10.803	12.186	Y	Y			-0.65	13.408	2.95
0208	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	9.6	14.8	Y	Y			-0.41	13.408	2.95
0034	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	12.85	12.15	Y	Y			-0.31	13.408	2.95
0227	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	17	8	Y	Y			-0.31	13.408	2.95
0098	600.21	Total Aflatoxin (ppb)	LC-PCD FI	13.91	11.46	Y	Y			-0.25	13.408	2.95
0003	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	12.4	13.2	Y	Y			-0.21	13.408	2.95
0226	600.20	Total Aflatoxin (ppb)	LC	13.6	12.6	Y	Y			-0.10	13.408	2.95
2066	600.20	Total Aflatoxin (ppb)	LC	13.6	12.8	Y	Y			-0.07	13.408	2.95
0033	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	17.3	10.1	Y	Y			0.10	13.408	2.95
0529	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	13.1	14.3	Y	Y			0.10	13.408	2.95
0596	600.21	Total Aflatoxin (ppb)	LC-PCD FI	14.47	13.97	Y	Y			0.28	13.408	2.95
0964	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	15.6	14.7	Y	Y			0.59	13.408	2.95
0042	600.20	Total Aflatoxin (ppb)	LC	16	16.5	Y	Y			0.96	13.408	2.95
0045	600.04	Total Aflatoxin (ppb)	Charm ROSA Fast 5 Aflatoxin Quant	18	15	Y	Y			1.05	13.408	2.95
0010	600.20	Total Aflatoxin (ppb)	LC	19	16	Y	Y			1.39	13.408	2.95
0407	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl SC	17.31	18.11	Y	Y			1.46	13.408	2.95
2164	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	17.3	18.4	Y	Y			1.51	13.408	2.95
0413	600.24	Total Aflatoxin (ppb)	LC-MS/MS	16.309	21.036	Y	Y			1.78	13.408	2.95
2096	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	19	19.2	Y	Y			1.93	13.408	2.95
0009	600.24	Total Aflatoxin (ppb)	LC-MS/MS	20.007	20.664	Y	Y			2.35	13.408	2.95
0910	600.21	Total Aflatoxin (ppb)	LC-PCD FI	20.31	20.41	Y	Y			2.36	13.408	2.95
0218	600.24	Total Aflatoxin (ppb)	LC-MS/MS	25.301	22.674	Y	Y			3.59	13.408	2.95
2053	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	8.8	7.7	Y	Y			-2.02	14.839	3.265
0619	601.23	AB1 (ppb)	LC-MS/MS	8.19	8.45	Y	Y			-2.00	14.839	3.265
2023	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	9.6	9.9	Y	Y			-1.56	14.839	3.265

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0027	601.21	AB1 (ppb)	LC-PCD FI	9.578	10.98	Y	Y			-1.40	14.839	3.265
0098	601.21	AB1 (ppb)	LC-PCD FI	12.75	10.45	Y	Y			-0.99	14.839	3.265
2066	601.20	AB1 (ppb)	LC	12.2	11.6	Y	Y			-0.90	14.839	3.265
0028	601.23	AB1 (ppb)	LC-MS/MS	11.19	13.18	Y	Y			-0.81	14.839	3.265
0226	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	12.7	11.7	Y	Y			-0.81	14.839	3.265
0596	601.21	AB1 (ppb)	LC-PCD FI	12.49	12.3	Y	Y			-0.75	14.839	3.265
2033	601.23	AB1 (ppb)	LC-MS/MS	14.2	13.1	Y	Y			-0.36	14.839	3.265
0913	601.23	AB1 (ppb)	LC-MS/MS	16.27	14.63	Y	Y			0.19	14.839	3.265
0413	601.23	AB1 (ppb)	LC-MS/MS	13.74	18	Y	Y			0.32	14.839	3.265
2140	601.23	AB1 (ppb)	LC-MS/MS	17	16	Y	Y			0.51	14.839	3.265
0918	601.23	AB1 (ppb)	LC-MS/MS	17.9	17.24	Y	Y			0.84	14.839	3.265
0913	601.20	AB1 (ppb)	LC	18.09	17.47	Y	Y			0.90	14.839	3.265
0910	601.21	AB1 (ppb)	LC-PCD FI	18.3	18.62	Y	Y			1.11	14.839	3.265
0009	601.23	AB1 (ppb)	LC-MS/MS	18.769	19.368	Y	Y			1.30	14.839	3.265
0345	601.23	AB1 (ppb)	LC-MS/MS	19.7	21.87	Y	Y			1.82	14.839	3.265
0218	601.23	AB1 (ppb)	LC-MS/MS	23.893	21.333	Y	Y			2.38	14.839	3.265
0553	601.23	AB1 (ppb)	LC-MS/MS	22.09	27.82	Y	Y			3.10	14.839	3.265
0646	601.20	AB1 (ppb)	LC	99.67	98.74	Y	Y			25.84	14.839	3.265
0619	602.23	AB2 (ppb)	LC-MS/MS	0.367	0.303	Y	Y			-3.38	1.307	0.287
2053	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	0.7	0.6	Y	Y			-2.28	1.307	0.287
0226	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	0.9	0.9	Y	Y			-1.41	1.307	0.287
2033	602.23	AB2 (ppb)	LC-MS/MS	1	1	Y	Y			-1.07	1.307	0.287
0098	602.21	AB2 (ppb)	LC-PCD FI	1.16	1.01	Y	Y			-0.77	1.307	0.287
0913	602.20	AB2 (ppb)	LC	1.19	1.08	Y	Y			-0.60	1.307	0.287
0413	602.23	AB2 (ppb)	LC-MS/MS	1.23	1.06	Y	Y			-0.56	1.307	0.287
0027	602.21	AB2 (ppb)	LC-PCD FI	1.225	1.206	Y	Y			-0.32	1.307	0.287
0009	602.23	AB2 (ppb)	LC-MS/MS	1.238	1.296	Y	Y			-0.14	1.307	0.287
2066	602.20	AB2 (ppb)	LC	1.4	1.22	Y	Y			0.01	1.307	0.287
0218	602.23	AB2 (ppb)	LC-MS/MS	1.408	1.341	Y	Y			0.23	1.307	0.287
0913	602.23	AB2 (ppb)	LC-MS/MS	1.6	1.19	Y	Y			0.31	1.307	0.287
0918	602.23	AB2 (ppb)	LC-MS/MS	1.48	1.33	Y	Y			0.34	1.307	0.287
0028	602.23	AB2 (ppb)	LC-MS/MS	1.09	1.84	Y	Y			0.55	1.307	0.287
0910	602.21	AB2 (ppb)	LC-PCD FI	1.47	1.59	Y	Y			0.78	1.307	0.287
0596	602.21	AB2 (ppb)	LC-PCD FI	1.72	1.39	Y	Y			0.86	1.307	0.287
0553	602.23	AB2 (ppb)	LC-MS/MS	1.47	2.17	Y	Y			1.79	1.307	0.287
0646	602.20	AB2 (ppb)	LC	12.11	12.14	Y	Y			37.63	1.307	0.287
0554	602.98	AB2 (ppb)	Other Rapid Test Kit	13.8	14.9	Y	Y			45.37	1.307	0.287
0345	602.23	AB2 (ppb)	LC-MS/MS			N	N	0.5	99.75%	NoZ	1.307	0.287
2140	602.23	AB2 (ppb)	LC-MS/MS			N	N	20	0.00%	NoZ	1.307	0.287
2023	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI			N	N	0.6	99.30%	NoZ	1.307	0.287
0918	603.23	AG1 (ppb)	LC-MS/MS	0.217		Y	N	0.1	99.99%	-2.72	0.542	0.119
0596	603.21	AG1 (ppb)	LC-PCD FI	0.27	0.28	Y	Y			-2.24	0.542	0.119
0910	603.21	AG1 (ppb)	LC-PCD FI	0.46	0.12	Y	Y			-2.11	0.542	0.119
0413	603.23	AG1 (ppb)	LC-MS/MS	1	1.12	Y	Y			4.35	0.542	0.119
0619	603.23	AG1 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				0.542	0.119

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0913	603.20	AG1 (ppb)	LC			N	N	1	0.01%	NoZ	0.542	0.119
2066	603.20	AG1 (ppb)	LC			N	N	0.14	99.96%	NoZ	0.542	0.119
0098	603.21	AG1 (ppb)	LC-PCD FI			N	N	15	0.00%	NoZ	0.542	0.119
0009	603.23	AG1 (ppb)	LC-MS/MS			N	N	3.136	0.00%	NoZ	0.542	0.119
0218	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	0.01%	NoZ	0.542	0.119
0345	603.23	AG1 (ppb)	LC-MS/MS			N	N	0.5	63.67%	NoZ	0.542	0.119
0553	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	0.01%	NoZ	0.542	0.119
0870	603.23	AG1 (ppb)	LC-MS/MS			N	N	0.6	31.22%	NoZ	0.542	0.119
0913	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	0.01%	NoZ	0.542	0.119
2033	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	0.01%	NoZ	0.542	0.119
2140	603.23	AG1 (ppb)	LC-MS/MS			N	N	20	0.00%	NoZ	0.542	0.119
0226	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI			N	N	5	0.00%	NoZ	0.542	0.119
2023	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI			N	N	0.6	31.22%	NoZ	0.542	0.119
2053	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI			N	N	0.1	99.99%	NoZ	0.542	0.119
0910	604.21	AG2 (ppb)	LC-PCD FI	0.08	0.07	Y	Y			-2.07	0.138	0.03
2053	604.24	AG2 (ppb)	Vicam Aflatest, LC-FI	0.2	0.2	Y	Y			2.07	0.138	0.03
0413	604.23	AG2 (ppb)	LC-MS/MS	0.339	0.856	Y	Y			15.21	0.138	0.03
0619	604.23	AG2 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				0.138	0.03
0913	604.20	AG2 (ppb)	LC			N	N	1	0.00%	NoZ	0.138	0.03
2066	604.20	AG2 (ppb)	LC			N	N	0.14	46.71%	NoZ	0.138	0.03
0098	604.21	AG2 (ppb)	LC-PCD FI			N	N	5	0.00%	NoZ	0.138	0.03
0009	604.23	AG2 (ppb)	LC-MS/MS			N	N	3.213	0.00%	NoZ	0.138	0.03
0218	604.23	AG2 (ppb)	LC-MS/MS			N	N	1	0.00%	NoZ	0.138	0.03
0345	604.23	AG2 (ppb)	LC-MS/MS			N	N	0.5	0.00%	NoZ	0.138	0.03
0553	604.23	AG2 (ppb)	LC-MS/MS			N	N	1	0.00%	NoZ	0.138	0.03
0870	604.23	AG2 (ppb)	LC-MS/MS			N	N	0.6	0.00%	NoZ	0.138	0.03
0913	604.23	AG2 (ppb)	LC-MS/MS			N	N	1	0.00%	NoZ	0.138	0.03
0918	604.23	AG2 (ppb)	LC-MS/MS			N	N	0.03	99.98%	NoZ	0.138	0.03
2033	604.23	AG2 (ppb)	LC-MS/MS			N	N	1	0.00%	NoZ	0.138	0.03
2140	604.23	AG2 (ppb)	LC-MS/MS			N	N	20	0.00%	NoZ	0.138	0.03
0226	604.24	AG2 (ppb)	Vicam Aflatest, LC-FI			N	N	5	0.00%	NoZ	0.138	0.03
2023	604.24	AG2 (ppb)	Vicam Aflatest, LC-FI			N	N	0.6	0.00%	NoZ	0.138	0.03
2169	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	[1.6]	[1.5]	Y	Y			-6.87	1,886	274.2
0590	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	[2.12]	[2.12]	Y	Y			-6.87	1,886	274.2
0554	610.99	Deoxynivalenol (ppb)	Miscellaneous	[2.2]	[2.1]	Y	Y			-6.87	1,886	274.2
2129	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	[2.27]	[2.35]	Y	Y			-6.87	1,886	274.2
2053	610.23	Deoxynivalenol (ppb)	LC-MS/MS	599	591	Y	Y			-4.71	1,886	274.2
0345	610.23	Deoxynivalenol (ppb)	LC-MS/MS	884.5	886.9	Y	Y			-3.65	1,886	274.2
0028	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,161	813.6	Y	Y			-3.28	1,886	274.2
2023	610.20	Deoxynivalenol (ppb)	LC	1,061	1,005	Y	Y			-3.11	1,886	274.2
0045	610.04	Deoxynivalenol (ppb)	Charm ROSA Fast 5 DON Quant	1,100	1,200	Y	Y			-2.68	1,886	274.2
0003	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,000	600	Y	Y			-2.14	1,886	274.2
2050	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1,500	1,300	Y	Y			-1.77	1,886	274.2
0619	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,361	1,508	Y	Y			-1.65	1,886	274.2
0918	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,615	1,670	Y	Y			-0.89	1,886	274.2

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0529	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,700	1,800	Y	Y			-0.50	1,886	274.2
0098	610.20	Deoxynivalenol (ppb)	LC	1,700	1,800	Y	Y			-0.50	1,886	274.2
0553	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,783	1,730	Y	Y			-0.47	1,886	274.2
0218	610.25	Deoxynivalenol (ppb)	GC-MS	1,669	1,876	Y	Y			-0.41	1,886	274.2
2140	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,801	1,837	Y	Y			-0.24	1,886	274.2
0913	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,870	1,820	Y	Y			-0.15	1,886	274.2
0227	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,900	1,900	Y	Y			0.05	1,886	274.2
2066	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1,990	1,850	Y	Y			0.12	1,886	274.2
0910	610.20	Deoxynivalenol (ppb)	LC	1,930	2,010	Y	Y			0.31	1,886	274.2
0297	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,900	2,100	Y	Y			0.42	1,886	274.2
0964	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,800	2,200	Y	Y			0.42	1,886	274.2
0413	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2,080	2,090	Y	Y			0.73	1,886	274.2
0066	610.08	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON SK	2,033	2,241	Y	Y			0.91	1,886	274.2
0413	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,300	2,000	Y	Y			0.96	1,886	274.2
0033	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,300	2,100	Y	Y			1.14	1,886	274.2
2033	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2,300	2,100	Y	Y			1.14	1,886	274.2
2098	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,200	2,300	Y	Y			1.33	1,886	274.2
0913	610.20	Deoxynivalenol (ppb)	LC	2,144	2,402	Y	Y			1.41	1,886	274.2
2164	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,300	2,300	Y	Y			1.51	1,886	274.2
0413	610.20	Deoxynivalenol (ppb)	LC	2,400	2,200	Y	Y			1.51	1,886	274.2
0009	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	2,310	2,370	Y	Y			1.66	1,886	274.2
0208	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,380	2,390	Y	Y			1.82	1,886	274.2
0027	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,200	2,600	Y	Y			1.87	1,886	274.2
0407	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	2,472	2,628	Y	Y			2.42	1,886	274.2
0226	610.09	Deoxynivalenol (ppb)	Vicam DON-V	2,600	2,600	Y	Y			2.60	1,886	274.2
2129	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	[2.4]	[2.5]	Y	Y			-7.33	2,902	395.4
2023	620.21	Total Fumonisin (ppb)	LC-FI OPA der.	429	502	Y	Y			-6.16	2,902	395.4
2066	620.08	Total Fumonisin (ppb)	r-Biopharm Ridascreen Fumonisin	1,350	1,350	Y	Y			-3.92	2,902	395.4
0004	620.11	Total Fumonisin (ppb)	Vicam Fumonitest	1,800	1,800	Y	Y			-2.79	2,902	395.4
0619	620.23	Total Fumonisin (ppb)	LC-MS/MS	1,966	2,336	Y	Y			-1.90	2,902	395.4
0529	620.02	Total Fumonisin (ppb)	Neogen Veratox Fumonisin 5/10	2,000	2,400	Y	Y			-1.77	2,902	395.4
0010	620.23	Total Fumonisin (ppb)	LC-MS/MS	3,000	2,000	Y	Y			-1.02	2,902	395.4
0407	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	2,449	2,577	Y	Y			-0.98	2,902	395.4
0098	620.11	Total Fumonisin (ppb)	Vicam Fumonitest	2,800	2,300	Y	Y			-0.89	2,902	395.4
0042	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	2,600	2,900	Y	Y			-0.38	2,902	395.4
0045	620.04	Total Fumonisin (ppb)	Charm ROSA Fast 5 FUMQ	3,700	2,200	Y	Y			0.12	2,902	395.4
0208	620.20	Total Fumonisin (ppb)	LC	3,200	2,800	Y	Y			0.25	2,902	395.4
2098	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	3,060	3,060	Y	Y			0.40	2,902	395.4
0027	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	3,360	2,920	Y	Y			0.60	2,902	395.4
0033	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	3,400	2,900	Y	Y			0.63	2,902	395.4
0066	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	3,750	3,679	Y	Y			2.06	2,902	395.4
0227	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	4,000	4,000	Y	Y			2.78	2,902	395.4
2164	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	4,100	4,300	Y	Y			3.28	2,902	395.4
0226	620.21	Total Fumonisin (ppb)	LC-FI OPA der.	4,200	4,400	Y	Y			3.54	2,902	395.4
0964	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	4,800	4,600	Y	Y			4.55	2,902	395.4

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0554	621.98	FB1 (ppb)	Other Rapid Test Kit	[3.6]	[3.6]	Y	Y			-7.02	2,190	311.3
0619	621.23	FB1 (ppb)	LC-MS/MS	1,542	1,867	Y	Y			-1.56	2,190	311.3
0913	621.23	FB1 (ppb)	LC-MS/MS	1,690	1,780	Y	Y			-1.46	2,190	311.3
0413	621.23	FB1 (ppb)	LC-MS/MS	1,819	1,910	Y	Y			-1.04	2,190	311.3
2033	621.23	FB1 (ppb)	LC-MS/MS	1,809	1,990	Y	Y			-0.93	2,190	311.3
2140	621.23	FB1 (ppb)	LC-MS/MS	1,994	1,844	Y	Y			-0.87	2,190	311.3
0910	621.21	FB1 (ppb)	LC-FI OPA der.	2,103	1,804	Y	Y			-0.76	2,190	311.3
0218	621.23	FB1 (ppb)	LC-MS/MS	2,057	2,093	Y	Y			-0.37	2,190	311.3
0098	621.20	FB1 (ppb)	LC	2,400	1,900	Y	Y			-0.13	2,190	311.3
0913	621.20	FB1 (ppb)	LC	2,275	2,175	Y	Y			0.11	2,190	311.3
2053	621.22	FB1 (ppb)	LC-MS	2,790	2,780	Y	Y			1.91	2,190	311.3
0553	621.23	FB1 (ppb)	LC-MS/MS	2,532	3,742	Y	Y			3.04	2,190	311.3
0226	621.21	FB1 (ppb)	LC-FI OPA der.	3,300	3,400	Y	Y			3.73	2,190	311.3
0413	622.23	FB2 (ppb)	LC-MS/MS	267.8	337	Y	Y			-2.30	509.9	90.263
0218	622.23	FB2 (ppb)	LC-MS/MS	396.3	396.2	Y	Y			-1.26	509.9	90.263
0098	622.20	FB2 (ppb)	LC	400	400	Y	Y			-1.22	509.9	90.263
0910	622.21	FB2 (ppb)	LC-FI OPA der.	429	386	Y	Y			-1.13	509.9	90.263
0619	622.23	FB2 (ppb)	LC-MS/MS	424	469	Y	Y			-0.70	509.9	90.263
0913	622.20	FB2 (ppb)	LC	462.5	462.5	Y	Y			-0.52	509.9	90.263
2140	622.23	FB2 (ppb)	LC-MS/MS	483	451	Y	Y			-0.47	509.9	90.263
0913	622.23	FB2 (ppb)	LC-MS/MS	440	510	Y	Y			-0.39	509.9	90.263
2033	622.23	FB2 (ppb)	LC-MS/MS	656	511	Y	Y			0.82	509.9	90.263
0553	622.23	FB2 (ppb)	LC-MS/MS	650.1	685.2	Y	Y			1.75	509.9	90.263
0226	622.21	FB2 (ppb)	LC-FI OPA der.	700	800	Y	Y			2.66	509.9	90.263
2053	622.22	FB2 (ppb)	LC-MS	760	760	Y	Y			2.77	509.9	90.263
2033	623.23	FB3 (ppb)	LC-MS/MS	189	167	Y	Y			-1.73	268.6	52.367
0226	623.21	FB3 (ppb)	LC-FI OPA der.	200	200	Y	Y			-1.31	268.6	52.367
0913	623.23	FB3 (ppb)	LC-MS/MS	200	230	Y	Y			-1.02	268.6	52.367
0913	623.20	FB3 (ppb)	LC	225	412.5	Y	Y			0.96	268.6	52.367
0553	623.23	FB3 (ppb)	LC-MS/MS	295.3	404.4	Y	Y			1.55	268.6	52.367
2053	623.22	FB3 (ppb)	LC-MS	350	350	Y	Y			1.55	268.6	52.367
2164	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	37.1	35.8	Y	Y			-4.15	220.3	44.256
0003	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	44.7	39	Y	Y			-4.03	220.3	44.256
0529	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	54.6	55.1	Y	Y			-3.74	220.3	44.256
0964	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	110	93.2	Y	Y			-2.68	220.3	44.256
0226	630.06	Ochratoxin A (ppb)	Vicam OchraTest	110.3	118.3	Y	Y			-2.40	220.3	44.256
0066	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och A	125.5	127.3	Y	Y			-2.12	220.3	44.256
2053	630.23	Ochratoxin A (ppb)	LC-MS/MS	158	147	Y	Y			-1.53	220.3	44.256
2023	630.20	Ochratoxin A (ppb)	LC	157	173	Y	Y			-1.25	220.3	44.256
0407	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och A	181.2	183.2	Y	Y			-0.86	220.3	44.256
2098	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	199	198	Y	Y			-0.49	220.3	44.256
2033	630.23	Ochratoxin A (ppb)	LC-MS/MS	227	206	Y	Y			-0.09	220.3	44.256
0413	630.23	Ochratoxin A (ppb)	LC-MS/MS	241.5	204.5	Y	Y			0.06	220.3	44.256
0913	630.23	Ochratoxin A (ppb)	LC-MS/MS	260.4	210.5	Y	Y			0.34	220.3	44.256
2140	630.23	Ochratoxin A (ppb)	LC-MS/MS	257	247	Y	Y			0.72	220.3	44.256

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0918	630.23	Ochratoxin A (ppb)	LC-MS/MS	248	271	Y	Y			0.89	220.3	44.256
0619	630.23	Ochratoxin A (ppb)	LC-MS/MS	246	284	Y	Y			1.01	220.3	44.256
0218	630.23	Ochratoxin A (ppb)	LC-MS/MS	299.8	297	Y	Y			1.76	220.3	44.256
0910	630.21	Ochratoxin A (ppb)	LC-PCD FI	292.3	329	Y	Y			2.04	220.3	44.256
0227	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	336	286	Y	Y			2.05	220.3	44.256
0913	630.20	Ochratoxin A (ppb)	LC	226.2	397.7	Y	Y			2.07	220.3	44.256
0098	630.20	Ochratoxin A (ppb)	LC	379	402	Y	Y			3.85	220.3	44.256
0553	630.23	Ochratoxin A (ppb)	LC-MS/MS	543.3	296.1	Y	Y			4.50	220.3	44.256
2129	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och A	518	525	Y	Y			6.81	220.3	44.256
2053	640.23	T-2 (ppb)	LC-MS/MS	330	322	Y	Y			-4.43	1,088	171.9
0407	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	557.8	614.2	Y	Y			-2.92	1,088	171.9
0910	640.21	T-2 (ppb)	LC-PCD FI	771	589.6	Y	Y			-2.37	1,088	171.9
0619	640.23	T-2 (ppb)	LC-MS/MS	726	846	Y	Y			-1.76	1,088	171.9
2140	640.23	T-2 (ppb)	LC-MS/MS	1,008	1,109	Y	Y			-0.17	1,088	171.9
0913	640.23	T-2 (ppb)	LC-MS/MS	1,117	1,088	Y	Y			0.08	1,088	171.9
0918	640.23	T-2 (ppb)	LC-MS/MS	1,134	1,190	Y	Y			0.43	1,088	171.9
2033	640.23	T-2 (ppb)	LC-MS/MS	1,220	1,280	Y	Y			0.94	1,088	171.9
0553	640.23	T-2 (ppb)	LC-MS/MS	1,283	1,355	Y	Y			1.34	1,088	171.9
0218	640.23	T-2 (ppb)	LC-MS/MS	1,332	1,337	Y	Y			1.43	1,088	171.9
0913	640.24	T-2 (ppb)	GC-ECD	1,551	1,122	Y	Y			1.44	1,088	171.9
0413	640.23	T-2 (ppb)	LC-MS/MS	1,465	1,247	Y	Y			1.56	1,088	171.9
2129	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	2,175	2,177	Y	Y			6.33	1,088	171.9
2053	641.23	HT-2 (ppb)	LC-MS/MS	187	178	Y	Y			-3.66	516.7	91.287
0619	641.23	HT-2 (ppb)	LC-MS/MS	416	487	Y	Y			-0.71	516.7	91.287
2140	641.23	HT-2 (ppb)	LC-MS/MS	493	508	Y	Y			-0.18	516.7	91.287
0913	641.23	HT-2 (ppb)	LC-MS/MS	507.8	513.3	Y	Y			-0.07	516.7	91.287
0913	641.24	HT-2 (ppb)	GC-ECD	547.6	833.5	Y	Y			1.90	516.7	91.287
0413	641.23	HT-2 (ppb)	LC-MS/MS	668	861	Y	Y			2.71	516.7	91.287
0529	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	1,105	1,074	Y	Y			-4.10	2,536	352.7
0964	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	1,674	1,587	Y	Y			-2.57	2,536	352.7
0045	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	2,500	2,500	Y	Y			-0.10	2,536	352.7
2066	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	2,681	3,018	Y	Y			0.89	2,536	352.7
2098	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	3,670	3,320	Y	Y			2.72	2,536	352.7
0227	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	4,060	3,248	Y	Y			3.17	2,536	352.7
2023	650.20	Zearalenone (ppb)	LC	52	51	Y	Y			-4.59	358.3	66.883
2053	650.24	Zearalenone (ppb)	LC-MS/MS	127	118	Y	Y			-3.52	358.3	66.883
0226	650.22	Zearalenone (ppb)	LC-FI, AOCS	200	200	Y	Y			-2.37	358.3	66.883
0045	650.02	Zearalenone (ppb)	Charm ROSA Zearalenone Quant - Mi	305	102	Y	Y			-2.31	358.3	66.883
0009	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	208.1	257.1	Y	Y			-1.88	358.3	66.883
0407	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON SC	233.8	235.8	Y	Y			-1.85	358.3	66.883
0098	650.20	Zearalenone (ppb)	LC	290	250	Y	Y			-1.32	358.3	66.883
0033	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	289	261	Y	Y			-1.24	358.3	66.883
0918	650.24	Zearalenone (ppb)	LC-MS/MS	292	292	Y	Y			-0.99	358.3	66.883
0619	650.24	Zearalenone (ppb)	LC-MS/MS	258	326	Y	Y			-0.99	358.3	66.883
2033	650.24	Zearalenone (ppb)	LC-MS/MS	327	302	Y	Y			-0.65	358.3	66.883

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0413	650.20	Zearalenone (ppb)	LC	360	350	Y	Y			-0.05	358.3	66.883
0913	650.24	Zearalenone (ppb)	LC-MS/MS	346.7	364.5	Y	Y			-0.04	358.3	66.883
0964	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	358.7	381.3	Y	Y			0.18	358.3	66.883
0218	650.24	Zearalenone (ppb)	LC-MS/MS	377.4	384.8	Y	Y			0.34	358.3	66.883
0413	650.24	Zearalenone (ppb)	LC-MS/MS	367.8	422	Y	Y			0.55	358.3	66.883
0910	650.20	Zearalenone (ppb)	LC	399	398	Y	Y			0.60	358.3	66.883
2140	650.24	Zearalenone (ppb)	LC-MS/MS	378	419	Y	Y			0.60	358.3	66.883
0913	650.20	Zearalenone (ppb)	LC	429	382.4	Y	Y			0.71	358.3	66.883
2129	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	425	430	Y	Y			1.04	358.3	66.883
0553	650.24	Zearalenone (ppb)	LC-MS/MS	461	415.4	Y	Y			1.20	358.3	66.883
0590	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	443	443	Y	Y			1.27	358.3	66.883
2098	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	453.1	487.3	Y	Y			1.67	358.3	66.883
2164	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	542	511	Y	Y			2.52	358.3	66.883
0027	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	558.8	562.8	Y	Y			3.03	358.3	66.883
0529	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	550.7	613.1	Y	Y			3.34	358.3	66.883
0066	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON SC	799.8	934.5	Y	Y			7.61	358.3	66.883

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