

Mycotoxin Proficiency Testing, Z Scored Against Robust Consensus

Issue Date: 01/31/2018

Analytes for Sample # 201764: DDGs with Solubles

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	38	30	Y	Y			-3.27	120.8	26.563
0407	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl S	51.99	52.95	Y	Y			-2.57	120.8	26.563
2169	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	61.1	54.8	Y	Y			-2.37	120.8	26.563
0066	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl S	56.33	64.88	Y	Y			-2.27	120.8	26.563
0674	600.08	Total Aflatoxin (ppb)	Romer AgraQuant Total Afl 4-40ppb	66.94	68.02	Y	Y			-2.01	120.8	26.563
2050	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	67.3	69.6	Y	Y			-1.97	120.8	26.563
0297	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	74	76.8	Y	Y			-1.71	120.8	26.563
2164	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	87.6	87.6	Y	Y			-1.25	120.8	26.563
0870	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	88.4	88.8	Y	Y			-1.21	120.8	26.563
0208	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	95	88.3	Y	Y			-1.10	120.8	26.563
2096	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	87.4	103.2	Y	Y			-0.96	120.8	26.563
2129	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	102	102.6	Y	Y			-0.70	120.8	26.563
0590	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	95.2	122	Y	Y			-0.46	120.8	26.563
0529	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	113.3	105.5	Y	Y			-0.43	120.8	26.563
2098	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	114	112	Y	Y			-0.29	120.8	26.563
2033	600.24	Total Aflatoxin (ppb)	LC-MS/MS	120.4	107.6	Y	Y			-0.26	120.8	26.563
0964	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	125.2	112.8	Y	Y			-0.07	120.8	26.563
0227	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	132	107	Y	Y			-0.05	120.8	26.563
0004	600.14	Total Aflatoxin (ppb)	Vicam Aflatest	110	130	Y	Y			-0.03	120.8	26.563
0619	600.24	Total Aflatoxin (ppb)	LC-MS/MS	120.4	135.1	Y	Y			0.26	120.8	26.563
0027	600.21	Total Aflatoxin (ppb)	LC-PCD FI	130.7	127.9	Y	Y			0.32	120.8	26.563
0034	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	131.3	129	Y	Y			0.35	120.8	26.563
0045	600.04	Total Aflatoxin (ppb)	Charm ROSA Fast 5 Aflatoxin Qua	138	125	Y	Y			0.40	120.8	26.563
2033	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	119	146	Y	Y			0.44	120.8	26.563
0003	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	104	189.5	Y	Y			0.98	120.8	26.563
0226	600.20	Total Aflatoxin (ppb)	LC	151.6	142.9	Y	Y			1.00	120.8	26.563
0035	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl S	145	152.6	Y	Y			1.05	120.8	26.563
0098	600.21	Total Aflatoxin (ppb)	LC-PCD FI	146.2	154.7	Y	Y			1.12	120.8	26.563
0043	600.08	Total Aflatoxin (ppb)	Romer AgraQuant Total Afl 4-40ppb	153.6	152.4	Y	Y			1.21	120.8	26.563
0964	600.24	Total Aflatoxin (ppb)	LC-MS/MS	147.3	162.8	Y	Y			1.29	120.8	26.563
0674	600.10	Total Aflatoxin (ppb)	TLC	167.6	167.6	Y	Y			1.76	120.8	26.563
0035	600.20	Total Aflatoxin (ppb)	LC	181.7	172.9	Y	Y			2.13	120.8	26.563
0010	600.20	Total Aflatoxin (ppb)	LC	183	175	Y	Y			2.19	120.8	26.563
0042	600.20	Total Aflatoxin (ppb)	LC	198	206	Y	Y			3.06	120.8	26.563
0218	600.24	Total Aflatoxin (ppb)	LC-MS/MS	218	215	Y	Y			3.60	120.8	26.563

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0202	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	273.2	248.8	Y	Y			5.28	120.8	26.563
0554	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin			N	N	0	100.00%	NoZ	120.8	26.563
0413	601.23	AB1 (ppb)	LC-MS/MS	35	27	Y	Y			-3.71	148.7	31.686
2023	601.22	AB1 (ppb)	LC-MS	33.6	39.2	Y	Y			-3.54	148.7	31.686
2053	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	83.5	81.7	Y	Y			-2.09	148.7	31.686
2033	601.23	AB1 (ppb)	LC-MS/MS	110.6	98.8	Y	Y			-1.39	148.7	31.686
0619	601.23	AB1 (ppb)	LC-MS/MS	110	124.6	Y	Y			-0.99	148.7	31.686
0027	601.21	AB1 (ppb)	LC-PCD FI	120.2	118	Y	Y			-0.93	148.7	31.686
0098	601.21	AB1 (ppb)	LC-PCD FI	132.1	139.8	Y	Y			-0.40	148.7	31.686
0226	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	140.6	132.2	Y	Y			-0.39	148.7	31.686
0918	601.23	AB1 (ppb)	LC-MS/MS	137	141	Y	Y			-0.31	148.7	31.686
0964	601.23	AB1 (ppb)	LC-MS/MS	135.1	147.7	Y	Y			-0.23	148.7	31.686
0870	601.23	AB1 (ppb)	LC-MS/MS	154.2	160.6	Y	Y			0.28	148.7	31.686
0035	601.20	AB1 (ppb)	LC	165.8	159.7	Y	Y			0.45	148.7	31.686
2140	601.23	AB1 (ppb)	LC-MS/MS	149	177	Y	Y			0.45	148.7	31.686
0009	601.21	AB1 (ppb)	LC-PCD FI	173.4	172.1	Y	Y			0.76	148.7	31.686
0913	601.20	AB1 (ppb)	LC	176.5	188.2	Y	Y			1.06	148.7	31.686
0028	601.23	AB1 (ppb)	LC-MS/MS	183.4	186.2	Y	Y			1.14	148.7	31.686
0913	601.23	AB1 (ppb)	LC-MS/MS	181.2	215.3	Y	Y			1.56	148.7	31.686
0218	601.23	AB1 (ppb)	LC-MS/MS	204	200	Y	Y			1.68	148.7	31.686
0553	601.23	AB1 (ppb)	LC-MS/MS	172.4	234.5	Y	Y			1.73	148.7	31.686
0910	601.21	AB1 (ppb)	LC-PCD FI	233	226.6	Y	Y			2.56	148.7	31.686
2023	602.22	AB2 (ppb)	LC-MS	1.8	3.7	Y	Y			-3.51	12.103	2.663
0413	602.23	AB2 (ppb)	LC-MS/MS	3	3	Y	Y			-3.42	12.103	2.663
2053	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	7.6	7.9	Y	Y			-1.63	12.103	2.663
2033	602.23	AB2 (ppb)	LC-MS/MS	9.8	8.8	Y	Y			-1.05	12.103	2.663
0028	602.23	AB2 (ppb)	LC-MS/MS	8.923	9.773	Y	Y			-1.03	12.103	2.663
0027	602.21	AB2 (ppb)	LC-PCD FI	10.442	9.915	Y	Y			-0.72	12.103	2.663
0619	602.23	AB2 (ppb)	LC-MS/MS	10.4	10.5	Y	Y			-0.62	12.103	2.663
0226	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	11	10.7	Y	Y			-0.47	12.103	2.663
0918	602.23	AB2 (ppb)	LC-MS/MS	11.3	11.6	Y	Y			-0.25	12.103	2.663
0964	602.23	AB2 (ppb)	LC-MS/MS	10.4	13.15	Y	Y			-0.12	12.103	2.663
0870	602.23	AB2 (ppb)	LC-MS/MS	12	11.88	Y	Y			-0.06	12.103	2.663
0009	602.23	AB2 (ppb)	LC-MS/MS	12.62	12.58	Y	Y			0.19	12.103	2.663
0913	602.20	AB2 (ppb)	LC	12.97	13.32	Y	Y			0.39	12.103	2.663
0035	602.20	AB2 (ppb)	LC	15.82	13.13	Y	Y			0.89	12.103	2.663
0913	602.23	AB2 (ppb)	LC-MS/MS	15.42	13.61	Y	Y			0.91	12.103	2.663
0098	602.21	AB2 (ppb)	LC-PCD FI	14.13	14.94	Y	Y			0.91	12.103	2.663
0218	602.23	AB2 (ppb)	LC-MS/MS	14.6	15.4	Y	Y			1.09	12.103	2.663
0553	602.23	AB2 (ppb)	LC-MS/MS	14.97	18.57	Y	Y			1.75	12.103	2.663
2140	602.23	AB2 (ppb)	LC-MS/MS	21	14	Y	Y			2.03	12.103	2.663
0910	602.21	AB2 (ppb)	LC-PCD FI	18.65	17.69	Y	Y			2.28	12.103	2.663
0913	603.20	AG1 (ppb)	LC			N	N	1			ND	

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						D1	D2					
0009	603.21	AG1 (ppb)	LC-PCD FI			N	N	0.199			ND	
0098	603.21	AG1 (ppb)	LC-PCD FI			N	N	15			ND	
0910	603.21	AG1 (ppb)	LC-PCD FI	0.4		Y	N	0.01			ND	
2023	603.22	AG1 (ppb)	LC-MS			N	N	0.7			ND	
0218	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
0413	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
0553	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
0619	603.23	AG1 (ppb)	LC-MS/MS			N	N	0.9			ND	
0870	603.23	AG1 (ppb)	LC-MS/MS			N	N	0.6			ND	
0913	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
0918	603.23	AG1 (ppb)	LC-MS/MS	1.3	1.1	Y	Y				ND	
0964	603.23	AG1 (ppb)	LC-MS/MS	1.2	1	Y	Y				ND	
2033	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
2140	603.23	AG1 (ppb)	LC-MS/MS			N	N	10			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	
0913	604.20	AG2 (ppb)	LC			N	N	1			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	
2023	604.22	AG2 (ppb)	LC-MS			N	N	0.9			ND	
0009	604.23	AG2 (ppb)	LC-MS/MS			N	N	0.201			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	
0553	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
0619	604.23	AG2 (ppb)	LC-MS/MS			N	N	0.8			ND	
0870	604.23	AG2 (ppb)	LC-MS/MS			N	N	0.6			ND	
0913	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
0918	604.23	AG2 (ppb)	LC-MS/MS			N	N	0.03			ND	
0964	604.23	AG2 (ppb)	LC-MS/MS	0.6	0.9	Y	Y				ND	
2033	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
2140	604.23	AG2 (ppb)	LC-MS/MS			N	N	10			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	
0674	610.03	Deoxynivalenol (ppb)	Charm ROSA DON Quant	[6]	[6]	Y	Y			-9.06	11,776	1,300
0554	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	[9.6]	[8.4]	Y	Y			-9.05	11,776	1,300
0297	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	[11.6]	[11.5]	Y	Y			-9.05	11,776	1,300
0529	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	[18]	[14.5]	Y	Y			-9.05	11,776	1,300
2129	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	147.7	147.1	Y	Y			-8.95	11,776	1,300
0590	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1,290	1,380	Y	Y			-8.03	11,776	1,300
0226	610.09	Deoxynivalenol (ppb)	Vicam DON-V	1,980	1,700	Y	Y			-7.64	11,776	1,300
2050	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	7,000	7,000	Y	Y			-3.67	11,776	1,300
2169	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	7,000	7,000	Y	Y			-3.67	11,776	1,300
0918	610.23	Deoxynivalenol (ppb)	LC-MS/MS	7,770	6,240	Y	Y			-3.67	11,776	1,300

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0202	610.06	Deoxynivalenol (ppb)	r-Biopharm Ridascreen DON	6,800	7,400	Y	Y			-3.60	11,776	1,300
0028	610.23	Deoxynivalenol (ppb)	LC-MS/MS	7,140	7,236	Y	Y			-3.53	11,776	1,300
0066	610.08	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	7,650	8,145	Y	Y			-2.98	11,776	1,300
0553	610.23	Deoxynivalenol (ppb)	LC-MS/MS	9,017	7,315	Y	Y			-2.78	11,776	1,300
2023	610.22	Deoxynivalenol (ppb)	LC-MS	11,000	7,970	Y	Y			-1.76	11,776	1,300
2164	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	9,800	9,800	Y	Y			-1.52	11,776	1,300
0870	610.99	Deoxynivalenol (ppb)	Miscellaneous	9,800	9,800	Y	Y			-1.52	11,776	1,300
0413	610.23	Deoxynivalenol (ppb)	LC-MS/MS	9,630	11,120	Y	Y			-1.08	11,776	1,300
0003	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	8,300	12,600	Y	Y			-1.02	11,776	1,300
0218	610.23	Deoxynivalenol (ppb)	LC-MS/MS	11,600	11,300	Y	Y			-0.25	11,776	1,300
2098	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	12,000	12,000	Y	Y			0.17	11,776	1,300
2033	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	11,900	12,300	Y	Y			0.25	11,776	1,300
0413	610.20	Deoxynivalenol (ppb)	LC	13,200	11,700	Y	Y			0.52	11,776	1,300
0098	610.20	Deoxynivalenol (ppb)	LC	13,100	11,900	Y	Y			0.56	11,776	1,300
0870	610.23	Deoxynivalenol (ppb)	LC-MS/MS	12,900	12,400	Y	Y			0.67	11,776	1,300
0413	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	12,000	14,000	Y	Y			0.94	11,776	1,300
0870	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	12,800	13,200	Y	Y			0.94	11,776	1,300
0964	610.23	Deoxynivalenol (ppb)	LC-MS/MS	13,088	13,537	Y	Y			1.18	11,776	1,300
2033	610.23	Deoxynivalenol (ppb)	LC-MS/MS	13,600	13,100	Y	Y			1.21	11,776	1,300
0027	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	13,300	13,700	Y	Y			1.33	11,776	1,300
0043	610.05	Deoxynivalenol (ppb)	Romer AgraQuant DON	13,962	13,113	Y	Y			1.36	11,776	1,300
2140	610.23	Deoxynivalenol (ppb)	LC-MS/MS	14,195	12,956	Y	Y			1.38	11,776	1,300
2053	610.23	Deoxynivalenol (ppb)	LC-MS/MS	13,823	14,238	Y	Y			1.73	11,776	1,300
0619	610.23	Deoxynivalenol (ppb)	LC-MS/MS	13,025	15,164	Y	Y			1.78	11,776	1,300
0407	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	14,016	14,721	Y	Y			1.99	11,776	1,300
0913	610.23	Deoxynivalenol (ppb)	LC-MS/MS	14,540	14,520	Y	Y			2.12	11,776	1,300
0009	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	16,450	13,000	Y	Y			2.27	11,776	1,300
0227	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	16,500	13,500	Y	Y			2.48	11,776	1,300
0910	610.20	Deoxynivalenol (ppb)	LC	16,060	14,080	Y	Y			2.53	11,776	1,300
0035	610.08	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	15,485	14,990	Y	Y			2.66	11,776	1,300
0045	610.04	Deoxynivalenol (ppb)	Charm ROSA Fast 5 DON Quant	14,600	16,000	Y	Y			2.71	11,776	1,300
0913	610.20	Deoxynivalenol (ppb)	LC	15,800	15,400	Y	Y			2.94	11,776	1,300
0208	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	13,900	17,700	Y	Y			3.10	11,776	1,300
0964	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	16,200	15,900	Y	Y			3.29	11,776	1,300
0033	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	18,000	14,900	Y	Y			3.60	11,776	1,300
0554	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	[0.6]	[0.7]	Y	Y			-8.20	6,076	740.9
0674	620.05	Total Fumonisin (ppb)	Charm ROSA FUMQ MeOH	[4.5]	[4.5]	Y	Y			-8.20	6,076	740.9
0529	620.02	Total Fumonisin (ppb)	Neogen Veratox Fumonisin 5/10	[6.3]	[6.8]	Y	Y			-8.19	6,076	740.9
2129	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	[69.9]	[72.6]	Y	Y			-8.11	6,076	740.9
0010	620.23	Total Fumonisin (ppb)	LC-MS/MS	3,000	3,000	Y	Y			-4.15	6,076	740.9
0042	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	4,450	3,750	Y	Y			-2.67	6,076	740.9
0208	620.20	Total Fumonisin (ppb)	LC	4,100	4,200	Y	Y			-2.60	6,076	740.9
0098	620.11	Total Fumonisin (ppb)	Vicam Fumonitest	4,500	4,500	Y	Y			-2.13	6,076	740.9

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						D1	D2					
0226	620.21	Total Fumonisin (ppb)	LC-FI OPA der.	4,600	4,700	Y	Y			-1.93	6,076	740.9
2023	620.22	Total Fumonisin (ppb)	LC-MS	5,070	4,430	Y	Y			-1.79	6,076	740.9
2033	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	4,900	5,600	Y	Y			-1.12	6,076	740.9
0964	620.23	Total Fumonisin (ppb)	LC-MS/MS	5,359	5,328	Y	Y			-0.99	6,076	740.9
2098	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	5,400	5,470	Y	Y			-0.87	6,076	740.9
2033	620.23	Total Fumonisin (ppb)	LC-MS/MS	5,980	5,773	Y	Y			-0.27	6,076	740.9
0027	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	6,120	5,660	Y	Y			-0.25	6,076	740.9
0619	620.23	Total Fumonisin (ppb)	LC-MS/MS	6,299	6,483	Y	Y			0.42	6,076	740.9
0035	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	6,045	7,150	Y	Y			0.70	6,076	740.9
2164	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	6,600	6,600	Y	Y			0.71	6,076	740.9
0407	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	6,620	6,850	Y	Y			0.89	6,076	740.9
0964	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	6,300	7,200	Y	Y			0.91	6,076	740.9
0227	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	7,000	7,000	Y	Y			1.25	6,076	740.9
0045	620.04	Total Fumonisin (ppb)	Charm ROSA Fast 5 FUMQ	7,000	8,000	Y	Y			1.92	6,076	740.9
0066	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	7,533	7,950	Y	Y			2.25	6,076	740.9
0202	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	8,800	7,300	Y	Y			2.66	6,076	740.9
0870	620.02	Total Fumonisin (ppb)	Neogen Veratox Fumonisin 5/10	8,640	7,800	Y	Y			2.89	6,076	740.9
0043	620.07	Total Fumonisin (ppb)	Romer AgraQuant Total Fumonisir	8,136	9,625	Y	Y			3.78	6,076	740.9
0413	620.23	Total Fumonisin (ppb)	LC-MS/MS	49,049	61,927	Y	Y			66.69	6,076	740.9
0226	621.21	FB1 (ppb)	LC-FI OPA der.	3,500	3,500	Y	Y			-2.22	4,857	612.5
0964	621.23	FB1 (ppb)	LC-MS/MS	3,737	3,723	Y	Y			-1.84	4,857	612.5
0098	621.20	FB1 (ppb)	LC	3,700	3,800	Y	Y			-1.81	4,857	612.5
0553	621.23	FB1 (ppb)	LC-MS/MS	3,898	4,268	Y	Y			-1.26	4,857	612.5
2033	621.23	FB1 (ppb)	LC-MS/MS	4,280	3,990	Y	Y			-1.18	4,857	612.5
0913	621.23	FB1 (ppb)	LC-MS/MS	4,720	4,680	Y	Y			-0.26	4,857	612.5
0910	621.21	FB1 (ppb)	LC-FI OPA der.	4,697	4,923	Y	Y			-0.08	4,857	612.5
0870	621.23	FB1 (ppb)	LC-MS/MS	5,240	5,200	Y	Y			0.59	4,857	612.5
0619	621.23	FB1 (ppb)	LC-MS/MS	5,178	5,396	Y	Y			0.70	4,857	612.5
0913	621.20	FB1 (ppb)	LC	5,840	5,700	Y	Y			1.49	4,857	612.5
2053	621.22	FB1 (ppb)	LC-MS	6,379	6,794	Y	Y			2.82	4,857	612.5
2140	621.23	FB1 (ppb)	LC-MS/MS	7,023	6,451	Y	Y			3.07	4,857	612.5
0413	621.23	FB1 (ppb)	LC-MS/MS	48,820	61,542	Y	Y			82.17	4,857	612.5
0413	622.23	FB2 (ppb)	LC-MS/MS	229	385	Y	Y			-4.90	1,261	194.8
0098	622.20	FB2 (ppb)	LC	800	700	Y	Y			-2.62	1,261	194.8
0619	622.23	FB2 (ppb)	LC-MS/MS	1,121	1,087	Y	Y			-0.81	1,261	194.8
0226	622.21	FB2 (ppb)	LC-FI OPA der.	1,120	1,150	Y	Y			-0.65	1,261	194.8
0913	622.20	FB2 (ppb)	LC	1,160	1,200	Y	Y			-0.42	1,261	194.8
0553	622.23	FB2 (ppb)	LC-MS/MS	1,103	1,272	Y	Y			-0.38	1,261	194.8
2033	622.23	FB2 (ppb)	LC-MS/MS	1,205	1,285	Y	Y			-0.08	1,261	194.8
2140	622.23	FB2 (ppb)	LC-MS/MS	1,375	1,247	Y	Y			0.26	1,261	194.8
0870	622.23	FB2 (ppb)	LC-MS/MS	1,280	1,360	Y	Y			0.30	1,261	194.8
0910	622.21	FB2 (ppb)	LC-FI OPA der.	1,269	1,382	Y	Y			0.33	1,261	194.8
0964	622.23	FB2 (ppb)	LC-MS/MS	1,629	1,605	Y	Y			1.83	1,261	194.8

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0913	622.23	FB2 (ppb)	LC-MS/MS	1,730	1,660	Y	Y			2.23	1,261	194.8
2053	622.22	FB2 (ppb)	LC-MS	1,496	2,142	Y	Y			2.87	1,261	194.8
2033	623.23	FB3 (ppb)	LC-MS/MS	495	498	Y	Y			-2.22	785.7	130.3
0553	623.23	FB3 (ppb)	LC-MS/MS	667.7	728.5	Y	Y			-0.67	785.7	130.3
0913	623.20	FB3 (ppb)	LC	760	680	Y	Y			-0.50	785.7	130.3
0870	623.23	FB3 (ppb)	LC-MS/MS	720	720	Y	Y			-0.50	785.7	130.3
2053	623.22	FB3 (ppb)	LC-MS	840	960	Y	Y			0.88	785.7	130.3
0913	623.23	FB3 (ppb)	LC-MS/MS	1,230	1,240	Y	Y			3.45	785.7	130.3
0226	623.21	FB3 (ppb)	LC-FI OPA der.			N	N	400	99.85%	NoZ	785.7	130.3
0674	630.20	Ochratoxin A (ppb)	LC	0.64	0.64	Y	Y			-4.36	15.753	3.466
2098	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	4.7	6.6	Y	Y			-2.92	15.753	3.466
0227	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	8	7	Y	Y			-2.38	15.753	3.466
0674	630.03	Ochratoxin A (ppb)	Romer AgraQuant Ochratoxin	6.08	9.07	Y	Y			-2.36	15.753	3.466
0529	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	9.2	9.8	Y	Y			-1.80	15.753	3.466
2033	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	9.9	10	Y	Y			-1.67	15.753	3.466
0913	630.23	Ochratoxin A (ppb)	LC-MS/MS	8.61	12.74	Y	Y			-1.47	15.753	3.466
2164	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	10.8	10.8	Y	Y			-1.43	15.753	3.466
2023	630.22	Ochratoxin A (ppb)	LC-MS	13.8	9.4	Y	Y			-1.20	15.753	3.466
0619	630.23	Ochratoxin A (ppb)	LC-MS/MS	13.2	11.2	Y	Y			-1.03	15.753	3.466
2033	630.23	Ochratoxin A (ppb)	LC-MS/MS	14	12	Y	Y			-0.79	15.753	3.466
0870	630.23	Ochratoxin A (ppb)	LC-MS/MS	13.9	12.74	Y	Y			-0.70	15.753	3.466
0098	630.20	Ochratoxin A (ppb)	LC	13.8	14	Y	Y			-0.53	15.753	3.466
0003	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	16.9	12.8	Y	Y			-0.26	15.753	3.466
0910	630.21	Ochratoxin A (ppb)	LC-PCD FI	14.2	16.7	Y	Y			-0.09	15.753	3.466
0918	630.23	Ochratoxin A (ppb)	LC-MS/MS	16.4	17.5	Y	Y			0.35	15.753	3.466
0218	630.23	Ochratoxin A (ppb)	LC-MS/MS	18	16	Y	Y			0.36	15.753	3.466
0553	630.23	Ochratoxin A (ppb)	LC-MS/MS	21.2	17.38	Y	Y			1.02	15.753	3.466
0964	630.23	Ochratoxin A (ppb)	LC-MS/MS	18.7	20.95	Y	Y			1.18	15.753	3.466
0066	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och	19.3	21.51	Y	Y			1.34	15.753	3.466
2140	630.23	Ochratoxin A (ppb)	LC-MS/MS	21	20	Y	Y			1.37	15.753	3.466
2053	630.23	Ochratoxin A (ppb)	LC-MS/MS	25.3	22.6	Y	Y			2.37	15.753	3.466
2129	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och	35	35.2	Y	Y			5.58	15.753	3.466
0413	630.23	Ochratoxin A (ppb)	LC-MS/MS	47.2	51.3	Y	Y			9.67	15.753	3.466
0407	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och	71.16	72.18	Y	Y			16.13	15.753	3.466
0964	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	64.4	85.8	Y	Y			17.12	15.753	3.466
0226	630.06	Ochratoxin A (ppb)	Vicam OchraTest			N	N	46	0.00%	NoZ	15.753	3.466
0870	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit			N	N	2	100.00%	NoZ	15.753	3.466
0964	640.23	T-2 (ppb)	LC-MS/MS	117	120.6	Y	Y			-2.71	254.3	49.996
0918	640.23	T-2 (ppb)	LC-MS/MS	156	159	Y	Y			-1.94	254.3	49.996
0910	640.21	T-2 (ppb)	LC-PCD FI	193.9	175	Y	Y			-1.40	254.3	49.996
0413	640.23	T-2 (ppb)	LC-MS/MS	205	171	Y	Y			-1.33	254.3	49.996
2033	640.23	T-2 (ppb)	LC-MS/MS	200	200	Y	Y			-1.09	254.3	49.996
0870	640.23	T-2 (ppb)	LC-MS/MS	245.1	210.7	Y	Y			-0.53	254.3	49.996

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0619	640.23	T-2 (ppb)	LC-MS/MS	223.8	247.1	Y	Y			-0.38	254.3	49.996
2033	640.98	T-2 (ppb)	Other Rapid Test Kit	190	300	Y	Y			-0.19	254.3	49.996
0913	640.23	T-2 (ppb)	LC-MS/MS	261.7	251.2	Y	Y			0.04	254.3	49.996
2140	640.23	T-2 (ppb)	LC-MS/MS	256	275	Y	Y			0.22	254.3	49.996
0218	640.23	T-2 (ppb)	LC-MS/MS	267	276	Y	Y			0.34	254.3	49.996
0407	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	276.3	290.2	Y	Y			0.58	254.3	49.996
0202	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	313.8	285.4	Y	Y			0.91	254.3	49.996
2129	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	317	311	Y	Y			1.19	254.3	49.996
2053	640.23	T-2 (ppb)	LC-MS/MS	315	319	Y	Y			1.25	254.3	49.996
0553	640.23	T-2 (ppb)	LC-MS/MS	388.6	384.4	Y	Y			2.64	254.3	49.996
0066	640.03	T-2 (ppb)	Romer AgraQuant T-2	551.8	540.2	Y	Y			5.83	254.3	49.996
0910	641.21	HT-2 (ppb)	LC post-col photochem der. FI	196	174	Y	Y			-2.45	342.4	64.357
2033	641.23	HT-2 (ppb)	LC-MS/MS	238	265	Y	Y			-1.41	342.4	64.357
0870	641.23	HT-2 (ppb)	LC-MS/MS	318.1	285.8	Y	Y			-0.63	342.4	64.357
2140	641.23	HT-2 (ppb)	LC-MS/MS	352	343	Y	Y			0.08	342.4	64.357
0413	641.23	HT-2 (ppb)	LC-MS/MS	351	358	Y	Y			0.19	342.4	64.357
0964	641.23	HT-2 (ppb)	LC-MS/MS	351.1	373.1	Y	Y			0.31	342.4	64.357
0218	641.23	HT-2 (ppb)	LC-MS/MS	362	381	Y	Y			0.45	342.4	64.357
0619	641.23	HT-2 (ppb)	LC-MS/MS	370.4	381.7	Y	Y			0.52	342.4	64.357
0913	641.23	HT-2 (ppb)	LC-MS/MS	368.6	384.8	Y	Y			0.53	342.4	64.357
2053	641.23	HT-2 (ppb)	LC-MS/MS	445	451	Y	Y			1.64	342.4	64.357
0590	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	615	604	Y	Y			-3.39	1,276	196.7
0870	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	871	803	Y	Y			-2.23	1,276	196.7
2098	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	1,098	1,113	Y	Y			-0.86	1,276	196.7
0964	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	1,067	1,157	Y	Y			-0.83	1,276	196.7
0227	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	1,162	1,130	Y	Y			-0.66	1,276	196.7
0529	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	1,910	1,928	Y	Y			3.27	1,276	196.7
0045	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	1,900	2,500	Y	Y			4.70	1,276	196.7
0674	650.02	Zearalenone (ppb)	Charm ROSA Zearalenone Quant	[0.645]	[0.645]	Y	Y			-6.67	1,546	231.7
2023	650.23	Zearalenone (ppb)	LC-MS	662	458	Y	Y			-4.26	1,546	231.7
0027	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	619.8	687.5	Y	Y			-3.85	1,546	231.7
2098	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	638.8	706.8	Y	Y			-3.77	1,546	231.7
2033	650.24	Zearalenone (ppb)	LC-MS/MS	660	710	Y	Y			-3.72	1,546	231.7
2164	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	743.9	743.9	Y	Y			-3.46	1,546	231.7
0918	650.24	Zearalenone (ppb)	LC-MS/MS	864	770	Y	Y			-3.15	1,546	231.7
0202	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	832.1	874.9	Y	Y			-2.99	1,546	231.7
0066	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	866.5	872.7	Y	Y			-2.92	1,546	231.7
0035	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	954.1	1,172	Y	Y			-2.09	1,546	231.7
0003	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	867	1,449	Y	Y			-1.68	1,546	231.7
0870	650.24	Zearalenone (ppb)	LC-MS/MS	1,165	1,203	Y	Y			-1.57	1,546	231.7
0045	650.02	Zearalenone (ppb)	Charm ROSA Zearalenone Quant	1,010	1,400	Y	Y			-1.47	1,546	231.7
0098	650.20	Zearalenone (ppb)	LC	1,210	1,320	Y	Y			-1.21	1,546	231.7
0964	650.24	Zearalenone (ppb)	LC-MS/MS	1,366	1,463	Y	Y			-0.57	1,546	231.7

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0043	650.04	Zearalenone (ppb)	Romer AgraQuant ZON	1,545	1,519	Y	Y			-0.06	1,546	231.7
2129	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	1,545	1,654	Y	Y			0.23	1,546	231.7
2053	650.24	Zearalenone (ppb)	LC-MS/MS	1,633	1,734	Y	Y			0.59	1,546	231.7
0619	650.24	Zearalenone (ppb)	LC-MS/MS	1,791	1,783	Y	Y			1.04	1,546	231.7
0009	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	1,755	1,863	Y	Y			1.13	1,546	231.7
0590	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	1,581	2,076	Y	Y			1.22	1,546	231.7
0913	650.20	Zearalenone (ppb)	LC	1,770	1,983	Y	Y			1.43	1,546	231.7
0218	650.24	Zearalenone (ppb)	LC-MS/MS	1,960	1,880	Y	Y			1.61	1,546	231.7
0413	650.24	Zearalenone (ppb)	LC-MS/MS	1,481	2,396	Y	Y			1.69	1,546	231.7
0553	650.24	Zearalenone (ppb)	LC-MS/MS	2,107	1,931	Y	Y			2.04	1,546	231.7
2140	650.24	Zearalenone (ppb)	LC-MS/MS	2,128	1,922	Y	Y			2.07	1,546	231.7
0964	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	1,790	2,308	Y	Y			2.17	1,546	231.7
0870	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	2,066	2,135	Y	Y			2.39	1,546	231.7
0407	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	2,049	2,181	Y	Y			2.46	1,546	231.7
0413	650.20	Zearalenone (ppb)	LC	2,090	2,270	Y	Y			2.74	1,546	231.7
0913	650.24	Zearalenone (ppb)	LC-MS/MS	2,200	2,234	Y	Y			2.89	1,546	231.7
0910	650.20	Zearalenone (ppb)	LC	2,304	2,135	Y	Y			2.91	1,546	231.7
0529	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	2,438	2,429	Y	Y			3.83	1,546	231.7
0226	650.22	Zearalenone (ppb)	LC-FI, AOCS	4,600	4,700	Y	Y			13.40	1,546	231.7

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 asterisk on the Analyte name indicates Reference Lab Value Used as Assigned Value and Z scores are calculated against the reference Lab. Results in