

## Mycotoxin Proficiency Testing, Z Scored Against Robust Consensus

Number of Labs Participating: 47

Issue Date: 11/30/2018

### All Tests for Sample # 201864: Swine 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	AAFCO $\sigma$ ffp
						D1	D2					
0511	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	2.3	2.2	Y	Y			-0.83	3.2	1.142
2096	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	2.9	2.2	Y	Y			-0.57	3.2	1.142
0590	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	3.68	2.71	Y	Y			0.00	3.2	1.142
0027	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	3.1	3.8	Y	Y			0.22	3.2	1.142
0876	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	3.75	4	Y	Y			0.59	3.2	1.142
2098	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	4.3	5.2	Y	Y			1.36	3.2	1.142
0227	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	5	6	Y	Y			2.01	3.2	1.142
0554	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	10.5	9.7	Y	Y			6.04	3.2	1.142
0034	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin			N	N	5	5.75%	NoZ	3.2	1.142
2113	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin			N	N	5	5.75%	NoZ	3.2	1.142
0032	600.02	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin HS	7.2	5.7	Y	Y			2.85	3.2	1.142
0045	600.04	Total Aflatoxin (ppb)	Charm ROSA Fast 5 Aflatoxin Quant			N	N	5	5.75%	NoZ	3.2	1.142
0723	600.07	Total Aflatoxin (ppb)	Romer AgraQuant Total Afl 1-20ppb	3.75	3.75	Y	Y			0.48	3.2	1.142
0674	600.08	Total Aflatoxin (ppb)	Romer AgraQuant Total Afl 4-40ppb	2.85	2.58	Y	Y			-0.42	3.2	1.142
0674	600.10	Total Aflatoxin (ppb)	TLC	2.71	2.71	Y	Y			-0.43	3.2	1.142
2129	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	0.5	0.8	Y	Y			-2.23	3.2	1.142
0590	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	3.13	2.71	Y	Y			-0.25	3.2	1.142
0202	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl	[0.088]	[0]	Y	Y				3.2	1.142
0407	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl SC	1.218	1.622	Y	Y			-1.56	3.2	1.142
0066	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl SC	1.48	1.88	Y	Y			-1.33	3.2	1.142
0035	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afl SC	1.79	1.74	Y	Y			-1.26	3.2	1.142
0004	600.14	Total Aflatoxin (ppb)	Vicam Aflatest			N	N	2	85.34%	NoZ	3.2	1.142
2192	600.20	Total Aflatoxin (ppb)	LC	1.21	1.58	Y	Y			-1.58	3.2	1.142
0042	600.20	Total Aflatoxin (ppb)	LC	3.85	4.3	Y	Y			0.77	3.2	1.142
0226	600.20	Total Aflatoxin (ppb)	LC			N	N	6	0.71%	NoZ	3.2	1.142
0010	600.21	Total Aflatoxin (ppb)	LC-PCD FI	3	2	Y	Y			-0.61	3.2	1.142
0098	600.21	Total Aflatoxin (ppb)	LC-PCD FI			N	N	15	0.00%	NoZ	3.2	1.142
0619	600.24	Total Aflatoxin (ppb)	LC-MS/MS	2.71	3.03	Y	Y			-0.29	3.2	1.142
2033	600.24	Total Aflatoxin (ppb)	LC-MS/MS	3.4	3.3	Y	Y			0.13	3.2	1.142
0218	600.24	Total Aflatoxin (ppb)	LC-MS/MS			N	N	4	24.18%	NoZ	3.2	1.142
2169	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	2.5	2.4	Y	Y			-0.66	3.2	1.142
2050	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	3.2	2.5	Y	Y			-0.31	3.2	1.142
0142	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	3.9	5	Y	Y			1.09	3.2	1.142
0870	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	4.8	5.2	Y	Y			1.58	3.2	1.142

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO $\sigma$ ffp
						D1	D2					
2192	601.20	AB1 (ppb)	LC	1.11	1.47	Y	Y			-1.56	2.914	1.042
0868	601.21	AB1 (ppb)	LC-PCD FI	2.7	2.95	Y	Y			-0.09	2.914	1.042
0098	601.21	AB1 (ppb)	LC-PCD FI			N	N	3	46.71%	NoZ	2.914	1.042
0043	601.22	AB1 (ppb)	LC-MS	0.591	0.591	Y	Y			-2.23	2.914	1.042
0619	601.23	AB1 (ppb)	LC-MS/MS	1.63	1.98	Y	Y			-1.06	2.914	1.042
0870	601.23	AB1 (ppb)	LC-MS/MS	1.9	1.88	Y	Y			-0.98	2.914	1.042
2033	601.23	AB1 (ppb)	LC-MS/MS	3.4	3.3	Y	Y			0.42	2.914	1.042
0218	601.23	AB1 (ppb)	LC-MS/MS	3.3	3.5	Y	Y			0.47	2.914	1.042
2207	601.23	AB1 (ppb)	LC-MS/MS	4	3	Y	Y			0.56	2.914	1.042
0028	601.23	AB1 (ppb)	LC-MS/MS	5.002	2.238	Y	Y			0.68	2.914	1.042
0009	601.23	AB1 (ppb)	LC-MS/MS	3.73	3.75	Y	Y			0.79	2.914	1.042
0913	601.23	AB1 (ppb)	LC-MS/MS	3.69	4.23	Y	Y			1.00	2.914	1.042
0964	601.23	AB1 (ppb)	LC-MS/MS	6.347	6.25	Y	Y			3.25	2.914	1.042
0918	601.23	AB1 (ppb)	LC-MS/MS			N	N	1	96.68%	NoZ	2.914	1.042
2140	601.23	AB1 (ppb)	LC-MS/MS			N	N	20	0.00%	NoZ	2.914	1.042
2053	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	2.2	2.3	Y	Y			-0.64	2.914	1.042
0226	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI			N	N	2	80.97%	NoZ	2.914	1.042
0868	601.98	AB1 (ppb)	Other Rapid Test Kit	2.4	2.5	Y	Y			-0.45	2.914	1.042
0878	601.98	AB1 (ppb)	Other Rapid Test Kit	4	3.6	Y	Y			0.85	2.914	1.042
2192	602.20	AB2 (ppb)	LC	0.1	0.11	Y	Y				ND	
0098	602.21	AB2 (ppb)	LC-PCD FI			N	N	1			ND	
0868	602.21	AB2 (ppb)	LC-PCD FI			N	N	1			ND	
0009	602.23	AB2 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				ND	
0218	602.23	AB2 (ppb)	LC-MS/MS			N	N	1			ND	
0619	602.23	AB2 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				ND	
0870	602.23	AB2 (ppb)	LC-MS/MS			N	N	0.6			ND	
0913	602.23	AB2 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				ND	
0918	602.23	AB2 (ppb)	LC-MS/MS			N	N	1			ND	
0964	602.23	AB2 (ppb)	LC-MS/MS			N	N	1			ND	
2033	602.23	AB2 (ppb)	LC-MS/MS			N	N	1			ND	
2140	602.23	AB2 (ppb)	LC-MS/MS			N	N	20			ND	
2207	602.23	AB2 (ppb)	LC-MS/MS			N	N	1			ND	
0226	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI			N	N	1			ND	
2053	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	0.1	0.1	Y	Y				ND	
0098	603.21	AG1 (ppb)	LC-PCD FI			N	N	15			ND	
0868	603.21	AG1 (ppb)	LC-PCD FI			N	N	1			ND	
0009	603.23	AG1 (ppb)	LC-MS/MS			N	N	0.65			ND	
0218	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
0619	603.23	AG1 (ppb)	LC-MS/MS	1.08	1.05	Y	Y				ND	
0870	603.23	AG1 (ppb)	LC-MS/MS			N	N	0.6			ND	
0913	603.23	AG1 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				ND	
0918	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO $\sigma$ ffp
						D1	D2					
0964	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
2033	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
2140	603.23	AG1 (ppb)	LC-MS/MS			N	N	20			ND	
2207	603.23	AG1 (ppb)	LC-MS/MS			N	N	1			ND	
0226	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI			N	N	2			ND	
2053	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI			N	N	0.1			ND	
0098	604.21	AG2 (ppb)	LC-PCD FI			N	N	5			ND	
0009	604.23	AG2 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				ND	
0218	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
0619	604.23	AG2 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				ND	
0870	604.23	AG2 (ppb)	LC-MS/MS			N	N	0.6			ND	
0913	604.23	AG2 (ppb)	LC-MS/MS	[0]	[0]	Y	Y				ND	
0918	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
0964	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
2033	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND	
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	1,500	1,200	Y	Y			-0.09	1,388	420.1
0870	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,300	1,500	Y	Y			0.03	1,388	420.1
0027	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,400	1,400	Y	Y			0.03	1,388	420.1
2192	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,390	1,520	Y	Y			0.16	1,388	420.1
0033	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,390	1,570	Y	Y			0.22	1,388	420.1
0208	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,600	1,470	Y	Y			0.35	1,388	420.1
0032	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,616	1,714	Y	Y			0.66	1,388	420.1
0227	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,700	1,700	Y	Y			0.74	1,388	420.1
2098	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1,800	1,600	Y	Y			0.74	1,388	420.1
2113	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,000	1,800	Y	Y			1.22	1,388	420.1
0511	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	12,000	10,000	Y	Y			22.88	1,388	420.1
0674	610.03	Deoxynivalenol (ppb)	Charm ROSA DON Quant	[1.3]	[1.3]	Y	Y			-3.30	1,388	420.1
0045	610.04	Deoxynivalenol (ppb)	Charm ROSA Fast 5 DON Quant	650	550	Y	Y			-1.88	1,388	420.1
0723	610.05	Deoxynivalenol (ppb)	Romer AgraQuant DON	2,080	2,080	Y	Y			1.65	1,388	420.1
0202	610.06	Deoxynivalenol (ppb)	r-Biopharm Ridascreen DON	929.6	946.1	Y	Y			-1.07	1,388	420.1
0638	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1,120	1,120	Y	Y			-0.64	1,388	420.1
2129	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1,170	1,238	Y	Y			-0.44	1,388	420.1
0009	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1,195	1,410	Y	Y			-0.20	1,388	420.1
0590	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1,510	1,540	Y	Y			0.33	1,388	420.1
0407	610.07	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON	1,683	2,080	Y	Y			1.18	1,388	420.1
0066	610.08	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON SC	1,350	1,600	Y	Y			0.21	1,388	420.1
0035	610.08	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DON SC	1,495	1,811	Y	Y			0.63	1,388	420.1
0226	610.09	Deoxynivalenol (ppb)	Vicam DON-V	1,600	2,000	Y	Y			0.98	1,388	420.1

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO $\sigma$ ffp
						D1	D2					
0098	610.20	Deoxynivalenol (ppb)	LC	800	1,000	Y	Y			-1.16	1,388	420.1
0868	610.20	Deoxynivalenol (ppb)	LC	1,250	1,220	Y	Y			-0.36	1,388	420.1
0723	610.20	Deoxynivalenol (ppb)	LC	1,640	1,640	Y	Y			0.60	1,388	420.1
0043	610.22	Deoxynivalenol (ppb)	LC-MS	530.8	530.8	Y	Y			-2.04	1,388	420.1
0028	610.23	Deoxynivalenol (ppb)	LC-MS/MS	760	842	Y	Y			-1.40	1,388	420.1
0619	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,208	1,175	Y	Y			-0.47	1,388	420.1
0218	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,240	1,180	Y	Y			-0.42	1,388	420.1
0918	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,250	1,253	Y	Y			-0.32	1,388	420.1
0010	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,290	1,250	Y	Y			-0.28	1,388	420.1
2140	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,290	1,304	Y	Y			-0.22	1,388	420.1
2207	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,350	1,350	Y	Y			-0.09	1,388	420.1
2033	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,383	1,360	Y	Y			-0.04	1,388	420.1
2053	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,450	1,400	Y	Y			0.09	1,388	420.1
0870	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,560	1,620	Y	Y			0.48	1,388	420.1
0964	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,552	1,678	Y	Y			0.54	1,388	420.1
0913	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2,061	1,615	Y	Y			1.07	1,388	420.1
2169	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1,000	900	Y	Y			-1.04	1,388	420.1
2050	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1,000	1,100	Y	Y			-0.80	1,388	420.1
0868	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	970	1,140	Y	Y			-0.79	1,388	420.1
0878	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1,450	1,470	Y	Y			0.17	1,388	420.1
0142	610.98	Deoxynivalenol (ppb)	Other Rapid Test Kit	1,600	1,800	Y	Y			0.74	1,388	420.1
0870	610.99	Deoxynivalenol (ppb)	Miscellaneous	1,260	1,260	Y	Y			-0.30	1,388	420.1
0511	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	1,500	1,500	Y	Y			-2.90	9,114	2,621
2098	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	6,940	7,000	Y	Y			-0.82	9,114	2,621
0554	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	7,500	8,100	Y	Y			-0.50	9,114	2,621
0227	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	8,000	8,000	Y	Y			-0.43	9,114	2,621
2113	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	8,200	9,000	Y	Y			-0.20	9,114	2,621
0032	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	9,300	8,700	Y	Y			-0.04	9,114	2,621
0027	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	9,120	9,830	Y	Y			0.14	9,114	2,621
2192	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	10,210	11,330	Y	Y			0.63	9,114	2,621
0042	620.01	Total Fumonisin (ppb)	Neogen Veratox Fumonisin	13,300	11,700	Y	Y			1.29	9,114	2,621
0870	620.02	Total Fumonisin (ppb)	Neogen Veratox Fumonisin 5/10	9,020	11,020	Y	Y			0.35	9,114	2,621
0045	620.04	Total Fumonisin (ppb)	Charm ROSA Fast 5 FUMQ	6,000	4,500	Y	Y			-1.47	9,114	2,621
0868	620.07	Total Fumonisin (ppb)	Romer AgraQuant Total Fumonisin	11,570	11,570	Y	Y			0.94	9,114	2,621
0066	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	1,093	1,151	Y	Y			-3.05	9,114	2,621
2129	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	8,410	8,680	Y	Y			-0.22	9,114	2,621
0407	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	9,830	10,064	Y	Y			0.32	9,114	2,621
0035	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	11,666	9,330	Y	Y			0.53	9,114	2,621
0202	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen FAST FUM	10,651	11,481	Y	Y			0.74	9,114	2,621
0098	620.11	Total Fumonisin (ppb)	Vicam Fumonitest	7,100	8,000	Y	Y			-0.60	9,114	2,621
0226	620.21	Total Fumonisin (ppb)	LC-FI OPA der.	17,100	18,300	Y	Y			3.28	9,114	2,621
0160	620.23	Total Fumonisin (ppb)	LC-MS/MS	4,800	9,400	Y	Y			-0.77	9,114	2,621

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO $\sigma$ ffp
						D1	D2					
0619	620.23	Total Fumonisin (ppb)	LC-MS/MS	8,615	8,123	Y	Y			-0.28	9,114	2,621
0010	620.23	Total Fumonisin (ppb)	LC-MS/MS	10,000	9,000	Y	Y			0.15	9,114	2,621
2033	620.23	Total Fumonisin (ppb)	LC-MS/MS	11,781	12,010	Y	Y			1.06	9,114	2,621
0142	620.98	Total Fumonisin (ppb)	Other Rapid Test Kit	8,500	8,300	Y	Y			-0.27	9,114	2,621
0878	620.98	Total Fumonisin (ppb)	Other Rapid Test Kit	10,100	11,820	Y	Y			0.70	9,114	2,621
0098	621.20	FB1 (ppb)	LC	5,700	6,200	Y	Y			-0.53	7,040	2,039
0226	621.21	FB1 (ppb)	LC-FI OPA der.	12,600	13,100	Y	Y			2.85	7,040	2,039
0043	621.22	FB1 (ppb)	LC-MS	4,357	4,357	Y	Y			-1.32	7,040	2,039
2053	621.22	FB1 (ppb)	LC-MS	8,497	8,559	Y	Y			0.73	7,040	2,039
0964	621.23	FB1 (ppb)	LC-MS/MS	5,200	5,173	Y	Y			-0.91	7,040	2,039
0160	621.23	FB1 (ppb)	LC-MS/MS	3,400	7,500	Y	Y			-0.78	7,040	2,039
2207	621.23	FB1 (ppb)	LC-MS/MS	5,500	5,500	Y	Y			-0.76	7,040	2,039
0913	621.23	FB1 (ppb)	LC-MS/MS	6,215	5,910	Y	Y			-0.48	7,040	2,039
0218	621.23	FB1 (ppb)	LC-MS/MS	6,380	6,110	Y	Y			-0.39	7,040	2,039
0619	621.23	FB1 (ppb)	LC-MS/MS	6,723	6,042	Y	Y			-0.32	7,040	2,039
0870	621.23	FB1 (ppb)	LC-MS/MS	6,680	6,680	Y	Y			-0.18	7,040	2,039
2033	621.23	FB1 (ppb)	LC-MS/MS	8,483	8,333	Y	Y			0.67	7,040	2,039
2140	621.23	FB1 (ppb)	LC-MS/MS	9,400	9,583	Y	Y			1.20	7,040	2,039
0009	621.23	FB1 (ppb)	LC-MS/MS	10,136	9,861	Y	Y			1.45	7,040	2,039
0098	622.20	FB2 (ppb)	LC	1,400	1,800	Y	Y			-0.57	1,933	579.7
0226	622.21	FB2 (ppb)	LC-FI OPA der.	3,400	3,400	Y	Y			2.53	1,933	579.7
0043	622.22	FB2 (ppb)	LC-MS	667.1	667.1	Y	Y			-2.18	1,933	579.7
2053	622.22	FB2 (ppb)	LC-MS	2,253	2,301	Y	Y			0.59	1,933	579.7
2207	622.23	FB2 (ppb)	LC-MS/MS	1,100	1,100	Y	Y			-1.44	1,933	579.7
0913	622.23	FB2 (ppb)	LC-MS/MS	1,390	1,333	Y	Y			-0.99	1,933	579.7
0160	622.23	FB2 (ppb)	LC-MS/MS	1,200	1,600	Y	Y			-0.92	1,933	579.7
0870	622.23	FB2 (ppb)	LC-MS/MS	1,800	1,780	Y	Y			-0.25	1,933	579.7
0218	622.23	FB2 (ppb)	LC-MS/MS	1,770	1,830	Y	Y			-0.23	1,933	579.7
0964	622.23	FB2 (ppb)	LC-MS/MS	1,899	1,951	Y	Y			-0.01	1,933	579.7
0619	622.23	FB2 (ppb)	LC-MS/MS	1,892	2,081	Y	Y			0.09	1,933	579.7
2140	622.23	FB2 (ppb)	LC-MS/MS	2,226	2,348	Y	Y			0.61	1,933	579.7
2033	622.23	FB2 (ppb)	LC-MS/MS	2,540	2,874	Y	Y			1.34	1,933	579.7
0009	622.23	FB2 (ppb)	LC-MS/MS	3,060	2,856	Y	Y			1.77	1,933	579.7
0226	623.21	FB3 (ppb)	LC-FI OPA der.	1,100	1,800	Y	Y			2.54	814.3	250
2053	623.22	FB3 (ppb)	LC-MS	902	901	Y	Y			0.35	814.3	250
0160	623.23	FB3 (ppb)	LC-MS/MS	200	300	Y	Y			-2.26	814.3	250
0913	623.23	FB3 (ppb)	LC-MS/MS	570	610	Y	Y			-0.90	814.3	250
0870	623.23	FB3 (ppb)	LC-MS/MS	760	780	Y	Y			-0.18	814.3	250
2033	623.23	FB3 (ppb)	LC-MS/MS	758	803	Y	Y			-0.14	814.3	250
0009	623.23	FB3 (ppb)	LC-MS/MS	1,025	932	Y	Y			0.66	814.3	250
0227	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	221	227	Y	Y			0.94	172.3	55.169
2098	630.01	Ochratoxin A (ppb)	Neogen Veratox Ochratoxin	228.4	237.1	Y	Y			1.10	172.3	55.169

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO $\sigma$ ffp
						D1	D2					
0674	630.03	Ochratoxin A (ppb)	Romer AgraQuant Ochratoxin	85.54	85.54	Y	Y			-1.57	172.3	55.169
0868	630.03	Ochratoxin A (ppb)	Romer AgraQuant Ochratoxin	172.7	174.1	Y	Y			0.02	172.3	55.169
0723	630.03	Ochratoxin A (ppb)	Romer AgraQuant Ochratoxin	187.2	187.2	Y	Y			0.27	172.3	55.169
0407	630.04	Ochratoxin A (ppb)	r-Biopharm Ridascreen Ochratoxin A	176.9	179.8	Y	Y			0.11	172.3	55.169
0066	630.05	Ochratoxin A (ppb)	r-Biopharm Ridascreen FAST Och A	95.57	102.1	Y	Y			-1.33	172.3	55.169
0226	630.06	Ochratoxin A (ppb)	Vicam OchraTest			N	N	46	98.89%	NoZ	172.3	55.169
0674	630.20	Ochratoxin A (ppb)	LC	81.66	81.66	Y	Y			-1.64	172.3	55.169
2192	630.20	Ochratoxin A (ppb)	LC	119.3	137.3	Y	Y			-0.80	172.3	55.169
0098	630.20	Ochratoxin A (ppb)	LC	202	194	Y	Y			0.47	172.3	55.169
2207	630.23	Ochratoxin A (ppb)	LC-MS/MS	47	42	Y	Y			-2.32	172.3	55.169
0870	630.23	Ochratoxin A (ppb)	LC-MS/MS	111.2	110.5	Y	Y			-1.11	172.3	55.169
0918	630.23	Ochratoxin A (ppb)	LC-MS/MS	133	125.2	Y	Y			-0.78	172.3	55.169
0010	630.23	Ochratoxin A (ppb)	LC-MS/MS	160	170	Y	Y			-0.13	172.3	55.169
2033	630.23	Ochratoxin A (ppb)	LC-MS/MS	170	180	Y	Y			0.05	172.3	55.169
0218	630.23	Ochratoxin A (ppb)	LC-MS/MS	185	186	Y	Y			0.24	172.3	55.169
2140	630.23	Ochratoxin A (ppb)	LC-MS/MS	200	172	Y	Y			0.25	172.3	55.169
0619	630.23	Ochratoxin A (ppb)	LC-MS/MS	180	219	Y	Y			0.49	172.3	55.169
0913	630.23	Ochratoxin A (ppb)	LC-MS/MS	234.7	199.3	Y	Y			0.81	172.3	55.169
0964	630.23	Ochratoxin A (ppb)	LC-MS/MS	218.9	218.8	Y	Y			0.84	172.3	55.169
2053	630.23	Ochratoxin A (ppb)	LC-MS/MS	222	227	Y	Y			0.95	172.3	55.169
0009	630.23	Ochratoxin A (ppb)	LC-MS/MS	308.2	291.5	Y	Y			2.31	172.3	55.169
0870	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	161	159	Y	Y			-0.22	172.3	55.169
0878	630.98	Ochratoxin A (ppb)	Other Rapid Test Kit	220.4	236.7	Y	Y			1.02	172.3	55.169
0868	640.03	T-2 (ppb)	Romer AgraQuant T-2	68.15	70.82	Y	Y			0.04	68.647	22.541
0066	640.03	T-2 (ppb)	Romer AgraQuant T-2	100.9	106.2	Y	Y			1.55	68.647	22.541
0638	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	75	56	Y	Y			-0.14	68.647	22.541
0202	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	66.869	80.087	Y	Y			0.21	68.647	22.541
0407	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	70.773	77.082	Y	Y			0.23	68.647	22.541
2129	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	84.21	86.37	Y	Y			0.74	68.647	22.541
2033	640.23	T-2 (ppb)	LC-MS/MS	40	50	Y	Y			-1.05	68.647	22.541
0913	640.23	T-2 (ppb)	LC-MS/MS	58.22	41.16	Y	Y			-0.84	68.647	22.541
0870	640.23	T-2 (ppb)	LC-MS/MS	57.42	53.02	Y	Y			-0.60	68.647	22.541
0619	640.23	T-2 (ppb)	LC-MS/MS	64	57.7	Y	Y			-0.35	68.647	22.541
2053	640.23	T-2 (ppb)	LC-MS/MS	62.1	60.4	Y	Y			-0.33	68.647	22.541
0218	640.23	T-2 (ppb)	LC-MS/MS	60	64	Y	Y			-0.29	68.647	22.541
2140	640.23	T-2 (ppb)	LC-MS/MS	57	69	Y	Y			-0.25	68.647	22.541
0918	640.23	T-2 (ppb)	LC-MS/MS	74.59	63.99	Y	Y			0.03	68.647	22.541
2207	640.23	T-2 (ppb)	LC-MS/MS	80	80	Y	Y			0.50	68.647	22.541
0878	640.98	T-2 (ppb)	Other Rapid Test Kit	151.8	102.2	Y	Y			2.59	68.647	22.541
2033	641.23	HT-2 (ppb)	LC-MS/MS	69.6	74.4	Y	Y			-0.74	94.921	30.895
0619	641.23	HT-2 (ppb)	LC-MS/MS	72.2	85.9	Y	Y			-0.51	94.921	30.895
0913	641.23	HT-2 (ppb)	LC-MS/MS	79.53	79.06	Y	Y			-0.51	94.921	30.895

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO $\sigma$ ffp
						D1	D2					
0870	641.23	HT-2 (ppb)	LC-MS/MS	83.88	84.4	Y	Y			-0.35	94.921	30.895
2053	641.23	HT-2 (ppb)	LC-MS/MS	91.9	86.9	Y	Y			-0.18	94.921	30.895
0218	641.23	HT-2 (ppb)	LC-MS/MS	100	97	Y	Y			0.12	94.921	30.895
2140	641.23	HT-2 (ppb)	LC-MS/MS	96	104	Y	Y			0.16	94.921	30.895
2207	641.23	HT-2 (ppb)	LC-MS/MS	120	130	Y	Y			0.97	94.921	30.895
0964	641.23	HT-2 (ppb)	LC-MS/MS	130.9	122.9	Y	Y			1.04	94.921	30.895
0227	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	175	180	Y	Y			-0.50	211.4	67.337
0870	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	196.3	212.7	Y	Y			-0.10	211.4	67.337
2192	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	230.4	219.9	Y	Y			0.20	211.4	67.337
2098	642.21	T-2 + HT-2 (ppb)	Neogen Veratox T-2 + HT-2	243.8	256	Y	Y			0.57	211.4	67.337
0590	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	167	144	Y	Y			-0.83	211.4	67.337
0045	642.98	T-2 + HT-2 (ppb)	Other Rapid Test Kit	212	300	Y	Y			0.66	211.4	67.337
2098	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	189.4	169	Y	Y			0.11	173	55.404
0870	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	240.8	203.7	Y	Y			0.89	173	55.404
0027	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	310.2	320.8	Y	Y			2.57	173	55.404
0674	650.02	Zearalenone (ppb)	Charm ROSA Zearalenone Quant - MeOH	[0.078]	[0.078]	Y	Y			-3.12	173	55.404
0045	650.02	Zearalenone (ppb)	Charm ROSA Zearalenone Quant - MeOH	131	144	Y	Y			-0.64	173	55.404
0723	650.04	Zearalenone (ppb)	Romer AgraQuant ZON	251.1	251.1	Y	Y			1.41	173	55.404
2129	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	130.6	123.2	Y	Y			-0.83	173	55.404
0202	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	120.1	158	Y	Y			-0.61	173	55.404
0590	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON	174	182	Y	Y			0.09	173	55.404
0066	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON SC	72.95	74.72	Y	Y			-1.79	173	55.404
0407	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON SC	168.2	179.4	Y	Y			0.01	173	55.404
0035	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST ZON SC	209.4	219.9	Y	Y			0.75	173	55.404
2192	650.20	Zearalenone (ppb)	LC	109.6	93.5	Y	Y			-1.29	173	55.404
0868	650.20	Zearalenone (ppb)	LC	145	161	Y	Y			-0.36	173	55.404
0098	650.20	Zearalenone (ppb)	LC	810	820	Y	Y			11.59	173	55.404
0226	650.22	Zearalenone (ppb)	LC-FI, AOCS			N	N	0.25	99.91%	NoZ	173	55.404
0043	650.23	Zearalenone (ppb)	LC-MS	45.88	45.88	Y	Y			-2.29	173	55.404
0964	650.24	Zearalenone (ppb)	LC-MS/MS	56.39	55.1	Y	Y			-2.12	173	55.404
2207	650.24	Zearalenone (ppb)	LC-MS/MS	90	100	Y	Y			-1.41	173	55.404
0870	650.24	Zearalenone (ppb)	LC-MS/MS	117.2	116.1	Y	Y			-1.02	173	55.404
0619	650.24	Zearalenone (ppb)	LC-MS/MS	178	151	Y	Y			-0.15	173	55.404
0913	650.24	Zearalenone (ppb)	LC-MS/MS	158.8	171.1	Y	Y			-0.15	173	55.404
0010	650.24	Zearalenone (ppb)	LC-MS/MS	180	160	Y	Y			-0.05	173	55.404
2053	650.24	Zearalenone (ppb)	LC-MS/MS	193	189	Y	Y			0.32	173	55.404
2140	650.24	Zearalenone (ppb)	LC-MS/MS	185	210	Y	Y			0.44	173	55.404
0918	650.24	Zearalenone (ppb)	LC-MS/MS	229.3	198.5	Y	Y			0.74	173	55.404
2033	650.24	Zearalenone (ppb)	LC-MS/MS	200	230	Y	Y			0.76	173	55.404
0218	650.24	Zearalenone (ppb)	LC-MS/MS	220	225	Y	Y			0.89	173	55.404
0009	650.24	Zearalenone (ppb)	LC-MS/MS	237.6	249.6	Y	Y			1.27	173	55.404
0868	650.98	Zearalenone (ppb)	Other Rapid Test Kit	175	183	Y	Y			0.11	173	55.404

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	AAFCO $\sigma$ ffp
						D1	D2					
0878	650.98	Zearalenone (ppb)	Other Rapid Test Kit	211	222	Y	Y			0.78	173	55.404
0142	650.98	Zearalenone (ppb)	Other Rapid Test Kit	246.5	239.2	Y	Y			1.26	173	55.404

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 Robust calculations.