



Mycotoxin Proficiency Testing
All Tests for Sample # 201463 Cattle Feed

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
0553	601.23	AB1 (ppb)	LC-MS/MS	4.31	6.67	Y	Y		100%	-3.92	40.2	8.844
0001	601.23	AB1 (ppb)	LC-MS/MS	29.8	26.9	Y	Y		100%	-1.34	40.2	8.844
0964	601.21	AB1 (ppb)	LC post-col photochem der. -FI	32.114	30.931	Y	Y		100%	-0.98	40.2	8.844
2033	601.23	AB1 (ppb)	LC-MS/MS	31.8	37.7	Y	Y		100%	-0.62	40.2	8.844
2023	601.24	AB1 (ppb)	Vicam Aflatest, LC-FI	34.3	36.5	Y	Y		100%	-0.54	40.2	8.844
2060	601.23	AB1 (ppb)	LC-MS/MS	41	35	Y	Y		100%	-0.25	40.2	8.844
0918	601.23	AB1 (ppb)	LC-MS/MS	45.2	45.8	Y	Y		100%	0.60	40.2	8.844
0001	602.23	AB2 (ppb)	LC-MS/MS	1.6	1.4	Y	Y		100%	-0.53	1.7	0.374
2023	602.24	AB2 (ppb)	Vicam Aflatest, LC-FI	1.5	1.6	Y	Y		100%	-0.40	1.7	0.374
0964	602.21	AB2 (ppb)	LC post-col photochem der.-FI	1.7	1.427	Y	Y		100%	-0.37	1.7	0.374
2060	602.23	AB2 (ppb)	LC-MS/MS	2.4	1.7	Y	Y		100%	0.94	1.7	0.374
0918	602.23	AB2 (ppb)	LC-MS/MS	2.79	2.29	Y	Y		100%	2.25	1.7	0.374
2033	602.23	AB2 (ppb)	LC-MS/MS	2.9	2.6	Y	Y		100%	2.81	1.7	0.374
0553	602.23	AB2 (ppb)	LC-MS/MS			N	N	1	96.94%	NoZ	1.7	0.374
0918	603.23	AG1 (ppb)	LC-MS/MS	0.8	1	Y	Y		100%	1.30	0.7	0.154
0964	603.21	AG1 (ppb)	LC post-col photochem der. -FI			N	N	1	2.57%	NoZ	0.7	0.154
0001	603.23	AG1 (ppb)	LC-MS/MS			N	N	0.5	90.30%	NoZ	0.7	0.154
0553	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	2.57%	NoZ	0.7	0.154
2033	603.23	AG1 (ppb)	LC-MS/MS			N	N	1	2.57%	NoZ	0.7	0.154
2060	603.23	AG1 (ppb)	LC-MS/MS			N	N	1.1	0.47%	NoZ	0.7	0.154
2023	603.24	AG1 (ppb)	Vicam Aflatest, LC-FI			N	N	0.6	74.19%	NoZ	0.7	0.154
0964	604.21	AG2 (ppb)	LC post-col photochem der. -FI			N	N	0.44			ND (0.5)	
0001	604.23	AG2 (ppb)	LC-MS/MS			N	N	0.5			ND (0.5)	
0553	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND (0.5)	
0918	604.23	AG2 (ppb)	LC-MS/MS			N	N	0.3			ND (0.5)	
2033	604.23	AG2 (ppb)	LC-MS/MS			N	N	1			ND (0.5)	
2060	604.23	AG2 (ppb)	LC-MS/MS			N	N	1.6			ND (0.5)	
2023	604.24	AG2 (ppb)	Vicam Aflatest, LC-FI			N	N	0.6			ND (0.5)	
2050	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	1.6	1.7	Y	Y		100%	-7.25	2,700	371.9
0202	610.06	Deoxynivalenol (ppb)	r-Biopharm Ridascreen DON	2.1	2.1	Y	Y		100%	-7.25	2,700	371.9
0218	610.25	Deoxynivalenol (ppb)	GC-MS	2.314	2.451	Y	Y		100%	-7.25	2,700	371.9
0958	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2.5	2.4	Y	Y		100%	-7.25	2,700	371.9
0297	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	270	280	Y	Y		100%	-6.52	2,700	371.9
2023	610.20	Deoxynivalenol (ppb)	LC	984	984	Y	Y		100%	-4.61	2,700	371.9

Lab #	Code	Analyte	Method	Result 1	Result 2	Detect ?		LOD	Probability of Detection	Z Score	Assigned Value	Horwitz
						D1	D2					
2052	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,271	1,199	Y	Y		100%	-3.94	2,700	371.9
2060	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,147	1,751	Y	Y		100%	-3.36	2,700	371.9
0001	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,688	1,661	Y	Y		100%	-2.76	2,700	371.9
0553	610.23	Deoxynivalenol (ppb)	LC-MS/MS	1,858	1,591	Y	Y		100%	-2.62	2,700	371.9
2033	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2,100	2,030	Y	Y		100%	-1.71	2,700	371.9
0964	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,300	2,000	Y	Y		100%	-1.48	2,700	371.9
0003	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,300	2,100	Y	Y		100%	-1.34	2,700	371.9
0918	610.23	Deoxynivalenol (ppb)	LC-MS/MS	2,100	2,370	Y	Y		100%	-1.25	2,700	371.9
0027	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,500	2,100	Y	Y		100%	-1.08	2,700	371.9
0957	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,400	2,200	Y	Y		100%	-1.08	2,700	371.9
0033	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,400	2,350	Y	Y		100%	-0.87	2,700	371.9
0959	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,400	2,400	Y	Y		100%	-0.81	2,700	371.9
0035	610.08	Deoxynivalenol (ppb)	r-Biopharm Ridascreen FAST DOI	1,812	3,160	Y	Y		100%	-0.58	2,700	371.9
0227	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,200	2,900	Y	Y		100%	-0.40	2,700	371.9
0660	610.01	Deoxynivalenol (ppb)	Neogen Veratox for DON	2,478	2,756	Y	Y		100%	-0.22	2,700	371.9
2072	610.99	Deoxynivalenol (ppb)	Miscellaneous technique	3,010	2,290	Y	Y		100%	-0.13	2,700	371.9
2052	621.23	FB1 (ppb)	LC-MS/MS	1,679	1,605	Y	Y		100%	1.13	1,400	212.9
2033	621.23	FB1 (ppb)	LC-MS/MS	1,720	1,650	Y	Y		100%	1.34	1,400	212.9
2060	621.23	FB1 (ppb)	LC-MS/MS	1,758	1,692	Y	Y		100%	1.53	1,400	212.9
0001	621.23	FB1 (ppb)	LC-MS/MS	1,770	1,768	Y	Y		100%	1.73	1,400	212.9
0964	621.21	FB1 (ppb)	LC-FI, OPA der.	2,494	2,466	Y	Y		100%	5.07	1,400	212.9
0553	621.23	FB1 (ppb)	LC-MS/MS	2,139	3,307	Y	Y		100%	6.21	1,400	212.9
0001	622.23	FB2 (ppb)	LC-MS/MS	382	403	Y	Y		100%	2.33	270	52.599
2052	622.23	FB2 (ppb)	LC-MS/MS	419.9	376.4	Y	Y		100%	2.44	270	52.599
2060	622.23	FB2 (ppb)	LC-MS/MS	515.8	479.7	Y	Y		100%	4.33	270	52.599
0553	622.23	FB2 (ppb)	LC-MS/MS	509.9	723.4	Y	Y		100%	6.59	270	52.599
0964	622.21	FB2 (ppb)	LC-FI, OPA der.	650.9	793.2	Y	Y		100%	8.59	270	52.599
2033	622.23	FB2 (ppb)	LC-MS/MS	780	680	Y	Y		100%	8.75	270	52.599
2052	623.23	FB3 (ppb)	LC-MS/MS	197.4	173.2	Y	Y		100%	1.50	140	30.107
2060	623.23	FB3 (ppb)	LC-MS/MS	298.5	276.9	Y	Y		100%	4.91	140	30.107
0553	623.23	FB3 (ppb)	LC-MS/MS	301.8	428.6	Y	Y		100%	7.48	140	30.107
0660	630.01	Ochratoxin A (ppb)	Neogen Veratox for Ochratoxin	39.7	34.1	Y	Y		100%	-3.91	188.9	38.832
0958	630.01	Ochratoxin A (ppb)	Neogen Veratox for Ochratoxin	41	41.8	Y	Y		100%	-3.80	188.9	38.832
0959	630.01	Ochratoxin A (ppb)	Neogen Veratox for Ochratoxin	52.2	69.3	Y	Y		100%	-3.30	188.9	38.832
0957	630.01	Ochratoxin A (ppb)	Neogen Veratox for Ochratoxin	95.3	44.9	Y	Y		100%	-3.06	188.9	38.832
2050	630.01	Ochratoxin A (ppb)	Neogen Veratox for Ochratoxin	86.1	88.8	Y	Y		100%	-2.61	188.9	38.832
0964	630.01	Ochratoxin A (ppb)	Neogen Veratox for Ochratoxin	97.8	100.2	Y	Y		100%	-2.32	188.9	38.832
2060	630.23	Ochratoxin A (ppb)	LC-MS/MS	155.4	170.7	Y	Y		100%	-0.67	188.9	38.832
2033	630.23	Ochratoxin A (ppb)	LC-MS/MS	180	190	Y	Y		100%	-0.10	188.9	38.832
0003	630.01	Ochratoxin A (ppb)	Neogen Veratox for Ochratoxin	203	203	Y	Y		100%	0.36	188.9	38.832
0001	630.23	Ochratoxin A (ppb)	LC-MS/MS	211	210	Y	Y		100%	0.56	188.9	38.832
0227	630.01	Ochratoxin A (ppb)	Neogen Veratox for Ochratoxin	222	209	Y	Y		100%	0.69	188.9	38.832

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						D1	D2					
0918	630.23	Ochratoxin A (ppb)	LC-MS/MS	228	218	Y	Y		100%	0.88	188.9	38.832
0553	630.23	Ochratoxin A (ppb)	LC-MS/MS	206.1	241	Y	Y		100%	0.89	188.9	38.832
2023	630.20	Ochratoxin A (ppb)	LC	317	272	Y	Y		100%	2.72	188.9	38.832
0964	630.21	Ochratoxin A (ppb)	LC post-col photochem der. FI	285.5	333.5	Y	Y		100%	3.11	188.9	38.832
0553	640.23	T-2 (ppb)	LC-MS/MS	25.72	29.34	Y	Y		100%	-4.49	244.6	48.364
2033	640.23	T-2 (ppb)	LC-MS/MS	118	107	Y	Y		100%	-2.73	244.6	48.364
0918	640.23	T-2 (ppb)	LC-MS/MS	126	119	Y	Y		100%	-2.52	244.6	48.364
0001	640.23	T-2 (ppb)	LC-MS/MS	180	171	Y	Y		100%	-1.43	244.6	48.364
0202	640.05	T-2 (ppb)	r-Biopharm Ridascreen FAST T-2	238.9	235.9	Y	Y		100%	-0.15	244.6	48.364
0964	640.01	T-2 (ppb)	Neogen Veratox T-2 / HT-2	8,418	8,659	Y	Y		100%	171.49	244.6	48.364
0227	640.01	T-2 (ppb)	Neogen Veratox T-2 / HT-2	40,100	40,760	Y	Y		100%	830.89	244.6	48.364
0555	640.23	T-2 (ppb)	LC-MS/MS			N	N	1000	0.00%	NoZ	244.6	48.364
2060	640.23	T-2 (ppb)	LC-MS/MS			N	N	200	82.18%	NoZ	244.6	48.364
0202	600.12	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afla	20.4	20.4	Y	Y		100%	-2.37	42.6	9.372
0004	600.14	Total Aflatoxin (ppb)	Vicam Aflatest	24	22	Y	Y		100%	-2.09	42.6	9.372
0027	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	31.9	24.4	Y	Y		100%	-1.54	42.6	9.372
0003	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	28.3	28	Y	Y		100%	-1.54	42.6	9.372
0958	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	31.7	31.8	Y	Y		100%	-1.16	42.6	9.372
0033	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	30.4	33.4	Y	Y		100%	-1.14	42.6	9.372
0964	600.21	Total Aflatoxin (ppb)	LC post-col photochem der. FI	33.814	32.358	Y	Y		100%	-1.02	42.6	9.372
0010	600.20	Total Aflatoxin (ppb)	LC	32	36	Y	Y		100%	-0.92	42.6	9.372
0010	600.21	Total Aflatoxin (ppb)	LC post-col photochem der. FI	33	35	Y	Y		100%	-0.92	42.6	9.372
0957	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	31.7	38.1	Y	Y		100%	-0.82	42.6	9.372
0297	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	34.8	35.9	Y	Y		100%	-0.77	42.6	9.372
0010	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	39	33	Y	Y		100%	-0.70	42.6	9.372
0227	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	36	36	Y	Y		100%	-0.70	42.6	9.372
2050	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	37.4	35.2	Y	Y		100%	-0.67	42.6	9.372
0660	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	37.4	36.9	Y	Y		100%	-0.58	42.6	9.372
2033	600.24	Total Aflatoxin (ppb)	LC-MS/MS	34.7	40.3	Y	Y		100%	-0.54	42.6	9.372
0964	600.01	Total Aflatoxin (ppb)	Neogen Veratox Aflatoxin	40.85	35.95	Y	Y		100%	-0.45	42.6	9.372
0959	600.10	Total Aflatoxin (ppb)	TLC	40	39	Y	Y		100%	-0.33	42.6	9.372
0042	600.20	Total Aflatoxin (ppb)	LC	45	38	Y	Y		100%	-0.12	42.6	9.372
2072	600.99	Total Aflatoxin (ppb)	Miscellaneous technique	40.9	50.5	Y	Y		100%	0.33	42.6	9.372
0035	600.13	Total Aflatoxin (ppb)	r-Biopharm Ridascreen FAST Afla	49.2	54.328	Y	Y		100%	0.98	42.6	9.372
0035	600.20	Total Aflatoxin (ppb)	LC	51.599	55.48	Y	Y		100%	1.17	42.6	9.372
0010	600.98	Total Aflatoxin (ppb)	Other Rapid Test Kit	70	77	Y	Y		100%	3.30	42.6	9.372
0004	620.11	Total Fumonisin (ppb)	Vicam FumoniTest	1.3	1.3	Y	Y		100%	-6.82	1,800	263.6
2050	620.02	Total Fumonisin (ppb)	Neogen Veratox for Fumonisin 5/1	2.43	2.5	Y	Y		100%	-6.82	1,800	263.6
0202	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen Fast Fumc	3	3	Y	Y		100%	-6.82	1,800	263.6
0958	620.01	Total Fumonisin (ppb)	Neogen Veratox for Fumonisin	3	3.1	Y	Y		100%	-6.82	1,800	263.6
0027	620.01	Total Fumonisin (ppb)	Neogen Veratox for Fumonisin	1,600	1,900	Y	Y		100%	-0.19	1,800	263.6
0957	620.01	Total Fumonisin (ppb)	Neogen Veratox for Fumonisin	1,900	1,600	Y	Y		100%	-0.19	1,800	263.6

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0042	620.01	Total Fumonisin (ppb)	Neogen Veratox for Fumonisin	2,400	2,050	Y	Y		100%	1.61	1,800	263.6
2052	620.23	Total Fumonisin (ppb)	LC-MS/MS	2,296	2,154	Y	Y		100%	1.61	1,800	263.6
0033	620.01	Total Fumonisin (ppb)	Neogen Veratox for Fumonisin	2,200	2,450	Y	Y		100%	1.99	1,800	263.6
2033	620.23	Total Fumonisin (ppb)	LC-MS/MS	2,630	2,440	Y	Y		100%	2.79	1,800	263.6
0959	620.01	Total Fumonisin (ppb)	Neogen Veratox for Fumonisin	3,300	2,200	Y	Y		100%	3.60	1,800	263.6
0964	620.01	Total Fumonisin (ppb)	Neogen Veratox for Fumonisin	2,925	2,690	Y	Y		100%	3.82	1,800	263.6
0035	620.09	Total Fumonisin (ppb)	r-Biopharm Ridascreen Fast Fumc	2,938	2,833	Y	Y		100%	4.12	1,800	263.6
0227	620.01	Total Fumonisin (ppb)	Neogen Veratox for Fumonisin	3,000	3,000	Y	Y		100%	4.55	1,800	263.6
0957	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	0.183	0.195	Y	Y		100%	-5.07	250.6	49.37
0553	650.24	Zearalenone (ppb)	LC-MS/MS	79.03	71.35	Y	Y		100%	-3.55	250.6	49.37
0202	650.06	Zearalenone (ppb)	r-Biopharm Ridascreen FAST Zea	103.2	104.1	Y	Y		100%	-2.98	250.6	49.37
0918	650.24	Zearalenone (ppb)	LC-MS/MS	118	141	Y	Y		100%	-2.45	250.6	49.37
2033	650.24	Zearalenone (ppb)	LC-MS/MS	147.5	148	Y	Y		100%	-2.08	250.6	49.37
0227	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	168	151	Y	Y		100%	-1.85	250.6	49.37
2052	650.24	Zearalenone (ppb)	LC-MS/MS	205.4	135.2	Y	Y		100%	-1.63	250.6	49.37
0003	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	255	213	Y	Y		100%	-0.34	250.6	49.37
0035	650.07	Zearalenone (ppb)	r-Biopharm Ridascreen FAST Zea	295.8	176.9	Y	Y		100%	-0.29	250.6	49.37
0033	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	254	227	Y	Y		100%	-0.20	250.6	49.37
0027	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	264	284	Y	Y		100%	0.47	250.6	49.37
0001	650.24	Zearalenone (ppb)	LC-MS/MS	285	309	Y	Y		100%	0.94	250.6	49.37
0660	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	302	293.1	Y	Y		100%	0.95	250.6	49.37
2023	650.20	Zearalenone (ppb)	LC	358.1	292.6	Y	Y		100%	1.51	250.6	49.37
2060	650.24	Zearalenone (ppb)	LC-MS/MS	359.2	353.4	Y	Y		100%	2.14	250.6	49.37
0964	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone	383.1	391.2	Y	Y		100%	2.77	250.6	49.37
0958	650.01	Zearalenone (ppb)	Neogen Veratox Zearalenone			N	N	0	100.00%	NoZ	250.6	49.37
0555	650.24	Zearalenone (ppb)	LC-MS/MS			N	N	500	0.00%	NoZ	250.6	49.37

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 for that 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.