



AAFCO
Proficiency Testing Program



Mycotoxin Contaminants Scheme

Equine Feed

Test Material Code # 202164

Method Summary Report

(Precision Report Follows)

Labs Reporting: 58

Methods Reported: 96

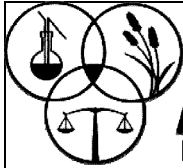
Issue Date : 11/30/2021

Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	Revised Horwitz SD (offp)	Uncertainty (U) Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
600.01	Total Aflatoxin, Neogen Veratox Aflatoxin (ppb)	10	9	7.982	3.504	7.109	2.482	1.034	34.92%	1.158	22.00%
600.14	Total Aflatoxin, Vicam Aflatest (ppb)	6	6	9.866	13.55	4.734	1.671	0.8528	35.30%	1.512	22.00%
600.20	Total Aflatoxin, LC (ppb)	6	6	8.602	2.822	8.602	2.988	1.525	34.74%	1.223	22.00%
600.24	Total Aflatoxin, LC-MS/MS (ppb)	5	5	8.400	2.364	8.400	2.920	1.306	34.76%	0.9200	22.00%
600.98	Total Aflatoxin, Other Rapid Test Kit (ppb)	4	4	7.938	1.379	7.938	2.763	1.382	34.81%	0.3750	22.00%
600.12	Total Aflatoxin, r-Biopharm Ridascreen FAST Afl (ppb)	3	3	6.598	1.099	6.598	2.308	1.333	34.99%	0.1747	22.00%
600.13	Total Aflatoxin, r-Biopharm Ridascreen FAST Afl SC (ppb)	3	3	8.530	1.743	8.530	2.964	2.096	34.74%	0.5000	22.00%
600.08	Total Aflatoxin, Romer AgraQuant Total Afl 4-40ppb (ppb)	2	2	12.23	0.6824						
600.21	Total Aflatoxin, LC-PCD FI (ppb)	2	2	7.425	1.216						
600.10	Total Aflatoxin, TLC (ppb)	1	1	16.15							
600.22	Total Aflatoxin, Vicam Aflatest, LC-FI (ppb)	1	1	8.010							
600.99	Total Aflatoxin, Miscellaneous (ppb)	1	1	9.500							
601.23	Aflatoxin B1, LC-MS/MS (ppb)	16	16	7.640	2.170	7.653	2.667	0.8334	34.85%	0.9857	22.00%
601.20	Aflatoxin B1, LC (ppb)	5	5	6.824	2.391	6.824	2.385	1.067	34.96%	1.016	22.00%
601.21	Aflatoxin B1, LC-PCD FI (ppb)	3	3	7.333	1.252	7.333	2.558	1.477	34.89%	1.460	22.00%
601.24	Aflatoxin B1, Vicam Aflatest, LC-FI (ppb)	2	2	5.935	2.935						
601.98	Aflatoxin B1, Other Rapid Test Kit (ppb)	2	2	4.225	3.783						
601.91	Aflatoxin B1, Romer AgraQuant Afl B1 (ppb)	1	1	7.315							
601.99	Aflatoxin B1, Miscellaneous (ppb)	1	1	8.000							
602.20	Aflatoxin B2, LC (ppb)	5	4	0.4338	0.1024	0.4338	0.1634	0.0817	37.67%	0.0525	22.00%
602.23	Aflatoxin B2, LC-MS/MS (ppb)	16	3	0.7983	0.5146	0.7983	0.2958	0.2135	37.05%	0.0967	22.00%
602.21	Aflatoxin B2, LC-PCD FI (ppb)	2	2	0.6025	0.0177						
602.24	Aflatoxin B2, Vicam Aflatest, LC-FI (ppb)	2	1	0.3350							
603.21	Aflatoxin G1, LC-PCD FI (ppb)	1	1	0.1300							
603.99	Aflatoxin G1, Miscellaneous (ppb)	1	1	1.500							
603.20	Aflatoxin G1, LC (ppb)	1		0.2500							
603.23	Aflatoxin G1, LC-MS/MS (ppb)	16									
603.24	Aflatoxin G1, Vicam Aflatest, LC-FI (ppb)	1		15.00							
604.20	Aflatoxin G2, LC (ppb)	1		0.2500							

Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	Revised Horwitz SD (σffp)	Uncertainty (U) Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
604.21	Aflatoxin G2, LC-PCD FI (ppb)	1		0.0100							
604.23	Aflatoxin G2, LC-MS/MS (ppb)	14									
604.24	Aflatoxin G2, Vicam Aflatest, LC-FI (ppb)	1		5.000							
610.23	Deoxynivalenol, LC-MS/MS (ppb)	17	17	1,256	192.4	1,267	384.5	116.6	30.34%	96.31	15.44%
610.01	Deoxynivalenol, Neogen Veratox for DON (ppb)	8	8	1,434	241.6	1,441	435.7	192.5	30.24%	66.25	15.14%
610.98	Deoxynivalenol, Other Rapid Test Kit (ppb)	5	5	1,525	308.2	1,525	460.4	205.9	30.19%	234.0	15.01%
610.07	Deoxynivalenol, r-Biopharm Ridascreen FAST DON (ppb)	3	3	1,487	509.0	1,487	449.1	259.3	30.21%	17.67	15.07%
610.20	Deoxynivalenol, LC (ppb)	3	3	823.3	714.8	823.3	252.7	178.7	30.70%	72.39	16.47%
610.05	Deoxynivalenol, Romer AgraQuant DON (ppb)	2	2	1,668	102.5						
610.08	Deoxynivalenol, r-Biopharm Ridascreen FAST DON SC (ppb)	2	2	1,964	620.1						
610.99	Deoxynivalenol, Miscellaneous (ppb)	2	2	1,554	78.74						
610.03	Deoxynivalenol, Charm ROSA DON Quant (ppb)	1	1	1,330							
610.06	Deoxynivalenol, r-Biopharm Ridascreen DON (ppb)	1	1	1,350							
610.25	Deoxynivalenol, GC-MS (ppb)	1	1	2,080							
620.01	Total Fumonisin, Neogen Veratox Fumonisin (ppb)	7	6	1,822	583.2	1,822	547.3	279.3	30.04%	263.3	14.62%
620.09	Total Fumonisin, r-Biopharm Ridascreen FAST FUM (ppb)	5	5	2,272	1,490	2,272	678.6	303.5	29.87%	236.7	14.14%
620.11	Total Fumonisin, Vicam Fumonitest (ppb)	4	4	1,160	808.2	1,160	352.7	176.4	30.41%	232.3	15.64%
620.23	Total Fumonisin, LC-MS/MS (ppb)	4	4	2,003	366.3	2,003	600.2	300.1	29.97%	193.8	14.41%
620.07	Total Fumonisin, Romer AgraQuant Total Fumonisin (ppb)	2	2	3,240	1,096						
620.98	Total Fumonisin, Other Rapid Test Kit (ppb)	2	2	2,836	1,182						
620.02	Total Fumonisin, Neogen Veratox Fumonisin 5/10 (ppb)	1	1	2,350							
620.12	Total Fumonisin, Vicam Fumonitest 200 (ppb)	1	1	1,800							
620.20	Total Fumonisin, LC (ppb)	1	1	1,900							
620.99	Total Fumonisin, Miscellaneous (ppb)	1	1	2,150							
621.23	Fumonsin B1, LC-MS/MS (ppb)	16	16	1,497	533.0	1,398	423.1	132.2	30.26%	64.74	15.21%
621.21	Fumonsin B1, LC-FI OPA der. (ppb)	2	2	587.5	88.38						
621.20	Fumonsin B1, LC (ppb)	1	1	1,400							
621.22	Fumonsin B1, LC-MS (ppb)	1	1	2,988							
621.98	Fumonsin B1, Other Rapid Test Kit (ppb)	1	1	1,900							
622.23	Fumonisin B2, LC-MS/MS (ppb)	16	16	434.2	113.8	425.1	132.9	41.52	31.25%	42.32	18.19%
622.21	Fumonisin B2, LC-FI OPA der. (ppb)	2	1	134.1							
622.22	Fumonisin B2, LC-MS (ppb)	1	1	987.1							
623.23	Fumonisin B3, LC-MS/MS (ppb)	9	9	201.3	113.3	174.4	55.82	23.26	32.02%	9.703	20.81%
630.23	Ochratoxin A, LC-MS/MS (ppb)	15	15	178.4	38.48	181.0	57.88	18.68	31.98%	17.53	20.69%
630.20	Ochratoxin A, LC (ppb)	6	6	164.5	30.90	164.5	52.74	26.92	32.07%	17.41	20.99%
630.01	Ochratoxin A, Neogen Veratox Ochratoxin (ppb)	2	2	381.1	454.9						
630.03	Ochratoxin A, Romer AgraQuant Ochratoxin (ppb)	2	2	258.2	41.28						
630.05	Ochratoxin A, r-Biopharm Ridascreen FAST Och A (ppb)	2	2	153.4	20.71						
630.06	Ochratoxin A, Vicam OchraTest (ppb)	2	2	155.4	20.59						
630.04	Ochratoxin A, r-Biopharm Ridascreen Ochratoxin A (ppb)	1	1	37.28							

Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	Revised Horwitz SD (offp)	Uncertainty (U) Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
630.21	Ochratoxin A, LC-PCD FI (ppb)	1	1	191.1							
630.22	Ochratoxin A, LC-MS (ppb)	1	1	193.4							
630.98	Ochratoxin A, Other Rapid Test Kit (ppb)	1	1	172.6							
630.99	Ochratoxin A, Miscellaneous (ppb)	1	1	175.0							
640.23	T-2 Toxin, LC-MS/MS (ppb)	14	14	313.9	70.39	314.4	99.06	33.09	31.51%	27.25	19.04%
640.98	T-2 Toxin, Other Rapid Test Kit (ppb)	2	2	346.6	25.63						
640.03	T-2 Toxin, Romer AgraQuant T-2 (ppb)	1	1	328.8							
640.05	T-2 Toxin, r-Biopharm Ridascreen FAST T-2 (ppb)	1	1	262.9							
640.21	T-2 Toxin, LC-PCD FI (ppb)	1	1	175.0							
640.25	T-2 Toxin, GC-MS (ppb)	1	1	339.0							
641.23	HT-2 Toxin, LC-MS/MS (ppb)	11	11	97.95	29.77	97.37	31.67	11.94	32.53%	11.52	22.00%
641.21	HT-2 Toxin, LC post-col photochem der. FI (ppb)	1	1	56.00							
642.21	T-2 Toxin + HT-2 Toxin, Neogen Veratox T-2 + HT-2 (ppb)	4	4	719.6	294.4	719.6	221.7	110.9	30.81%	23.18	16.81%
642.98	T-2 Toxin + HT-2 Toxin, Other Rapid Test Kit (ppb)	3	3	344.5	138.1	344.5	108.3	62.51	31.43%	47.97	18.78%
642.99	T-2 Toxin + HT-2 Toxin, Miscellaneous Technique (ppb)	2	2	350.8	140.4						
642.04	T-2 Toxin + HT-2 Toxin, LC-MS (ppb)	1	1	374.5							
650.24	Zearalenone, LC-MS/MS (ppb)	16	15	195.7	73.03	192.7	61.53	19.86	31.93%	14.24	20.50%
650.01	Zearalenone, Neogen Veratox Zearalenone (ppb)	4	4	363.5	140.5	363.5	114.1	57.04	31.39%	56.83	18.63%
650.06	Zearalenone, r-Biopharm Ridascreen FAST ZON (ppb)	3	3	193.3	34.64	193.3	61.71	35.63	31.93%	29.67	20.49%
650.07	Zearalenone, r-Biopharm Ridascreen FAST ZON SC (ppb)	3	3	229.5	26.94	229.5	72.94	42.11	31.78%	21.57	19.96%
650.20	Zearalenone, LC (ppb)	4	3	116.6	23.17	116.6	37.73	21.78	32.37%	4.740	22.00%
650.98	Zearalenone, Other Rapid Test Kit (ppb)	3	3	249.8	56.57	249.8	79.20	45.73	31.71%	13.93	19.71%
650.99	Zearalenone, Miscellaneous (ppb)	3	3	137.5	46.30	137.5	44.31	25.58	32.22%	8.333	21.56%
650.04	Zearalenone, Romer AgraQuant ZON (ppb)	2	2	242.5	34.62						
650.23	Zearalenone, LC-MS (ppb)	2	2	146.2	54.23						
650.02	Zearalenone, Charm ROSA Zearalenone Quant - MeOH (ppb)	1	1	245.6							
650.21	Zearalenone, LC-FI, ISO (ppb)	1	1	140.3							

Notes: Robust statistics not used if < 6 labs reporting. In this case Means and SD's may be reported based on Raw Data with obvious blunders removed. Robust Assigned Values indicated in bold font. Horwitz and Revised Horwitz SD's assigned regardless of participant number.



AAFCO
Proficiency Testing Program



Mycotoxin Contaminants Scheme
Equine Feed
Test Material Code # 202164

Method Precision Report

Methods Reported: 19
Labs Reporting: 58
Issue Date : 11/30/2021

Method Code	Analyte and Method	Total # Labs Submitting	# Labs used in Precision Calcs	Precision Mean	Precision SD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr
600.01	Total Aflatoxin, Neogen Veratox Aflatoxin (ppb)	10	8	7.982	3.504	0.8102	0.7851	1.128	11.82%	11.45%	16.46%	1.437
600.14	Total Aflatoxin, Vicam Aflatest (ppb)	6	5	9.866	13.55	0.6748	0.3442	0.7575	15.55%	7.93%	17.46%	2.201
600.20	Total Aflatoxin, LC (ppb)	6	6	8.602	2.822	2.697	1.173	2.942	31.36%	13.64%	34.20%	2.507
600.24	Total Aflatoxin, LC-MS/MS (ppb)	5	5	8.400	2.364	2.304	0.7443	2.421	27.43%	8.86%	28.83%	3.253
601.20	Aflatoxin B1, LC (ppb)	5	5	6.824	2.391	2.300	0.9214	2.478	33.71%	13.50%	36.31%	2.690
601.23	Aflatoxin B1, LC-MS/MS (ppb)	16	15	7.640	2.170	2.126	0.7198	2.245	27.38%	9.27%	28.91%	3.119
610.01	Deoxynivalenol, Neogen Veratox for DON (ppb)	8	8	1,434	241.6	237.0	66.57	246.2	16.52%	4.64%	17.16%	3.698
610.23	Deoxynivalenol, LC-MS/MS (ppb)	17	17	1,256	192.4	181.9	88.53	202.3	14.49%	7.05%	16.11%	2.285
610.98	Deoxynivalenol, Other Rapid Test Kit (ppb)	5	5	1,525	308.2	263.2	226.9	347.5	17.26%	14.88%	22.79%	1.531
620.01	Total Fumonisin, Neogen Veratox Fumonisin (ppb)	7	6	1,822	583.2	557.8	240.5	607.4	30.62%	13.20%	33.35%	2.526
620.09	Total Fumonisin, r-Biopharm Ridascreen FAST FUM (ppb)	5	5	2,272	1,490	1,481	229.7	1,499	65.20%	10.11%	65.97%	6.525
621.23	Fumonisin B1, LC-MS/MS (ppb)	16	14	1,497	533.0	269.5	51.77	274.4	19.50%	3.75%	19.86%	5.301
622.23	Fumonisin B2, LC-MS/MS (ppb)	16	15	434.2	113.8	84.73	37.73	92.75	20.39%	9.08%	22.32%	2.458
623.23	Fumonisin B3, LC-MS/MS (ppb)	9	8	201.3	113.3	33.67	6.071	34.22	20.40%	3.68%	20.73%	5.636
630.20	Ochratoxin A, LC (ppb)	6	6	164.5	30.90	28.50	16.91	33.13	17.33%	10.28%	20.15%	1.960
630.23	Ochratoxin A, LC-MS/MS (ppb)	15	13	178.4	38.48	29.90	10.98	31.85	16.27%	5.97%	17.33%	2.901
640.23	T-2 Toxin, LC-MS/MS (ppb)	14	12	313.9	70.39	44.17	21.02	48.92	13.86%	6.59%	15.34%	2.328
641.23	HT-2 Toxin, LC-MS/MS (ppb)	11	10	97.95	29.77	24.21	8.347	25.61	26.18%	9.02%	27.69%	3.068
650.24	Zearalenone, LC-MS/MS (ppb)	16	14	195.7	73.03	54.57	12.04	55.88	29.85%	6.59%	30.57%	4.641

Notes: Precision Calculations provided for methods with 5 or more labs contributing to calculations.