



Mycotoxin Contaminants Scheme

Dairy Feed

Test Material Code # 202061

Method Summary Report

(Precision Report Follows)

Labs Reporting: 56

Methods Reported: 94

Issue Date : 02/29/2020

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)	13	13	29.69	5.149	30.17	10.13	3.512	33.58%	2.635	22.00%
600.20	Total Aflatoxin, LC (ppb)	6	6	43.07	7.364	43.07	14.32	7.308	33.25%	3.227	22.00%
600.98	Total Aflatoxin, Other Rapid Test Kit (ppb)	5	5	33.84	7.268	33.84	11.33	5.065	33.47%	1.440	22.00%
600.24	Total Aflatoxin, LC-MS/MS (ppb)	4	4	54.62	6.979	54.62	18.05	9.024	33.04%	5.675	22.00%
600.12	Total Aflatoxin, r-Biopharm Ridascreen FAST Afl (ppb)	3	3	23.92	12.98	23.92	8.082	5.715	33.79%	2.077	22.00%
600.13	Total Aflatoxin, r-Biopharm Ridascreen FAST Afl SC (ppb)	3	3	32.61	13.66	32.61	10.93	6.308	33.50%	0.6887	22.00%
600.14	Total Aflatoxin, Vicam Aflatest (ppb)	3	3	26.67	6.252	26.67	8.983	5.187	33.69%	2.667	22.00%
600.04	Total Aflatoxin, Charm ROSA Fast 5 Aflatoxin Quant (ppb)	1	1	25.00							
600.08	Total Aflatoxin, Romer AgraQuant Total Afl 4-40ppb (ppb)	1	1	38.46							
600.10	Total Aflatoxin, TLC (ppb)	1	1	26.13							
600.21	Total Aflatoxin, LC-PCD FI (ppb)	1	1	39.06							
600.99	Total Aflatoxin, Miscellaneous (ppb)	1	1	48.10							
601.23	Aflatoxin B1, LC-MS/MS (ppb)	15	15	43.01	10.12	42.79	14.23	4.593	33.26%	5.234	22.00%
601.20	Aflatoxin B1, LC (ppb)	4	4	33.93	9.854	33.93	11.36	5.678	33.47%	1.220	22.00%
601.21	Aflatoxin B1, LC-PCD FI (ppb)	2	2	36.87	6.629						
601.24	Aflatoxin B1, Vicam Aflatest, LC-FI (ppb)	1	1	24.05							
601.92	Aflatoxin B1, r-Biopharm Ridascreen Afl B1I (ppb)	1	1	24.81							
601.98	Aflatoxin B1, Other Rapid Test Kit (ppb)	1	1	30.80							
602.23	Aflatoxin B2, LC-MS/MS (ppb)	15	15	8.503	1.750	8.362	2.907	0.9382	34.76%	1.486	22.00%
602.20	Aflatoxin B2, LC (ppb)	4	4	6.545	2.497	6.545	2.290	1.145	35.00%	0.3650	22.00%
602.21	Aflatoxin B2, LC-PCD FI (ppb)	2	2	7.310	0.6223						
602.24	Aflatoxin B2, Vicam Aflatest, LC-FI (ppb)	1	1	4.700							
603.20	Aflatoxin G1, LC (ppb)	2	1	7.275							
603.21	Aflatoxin G1, LC-PCD FI (ppb)	2	1	0.6050							
603.24	Aflatoxin G1, Vicam Aflatest, LC-FI (ppb)	1	1	0.3500							
603.23	Aflatoxin G1, LC-MS/MS (ppb)	14									
604.20	Aflatoxin G2, LC (ppb)	2	1	14.79							
604.21	Aflatoxin G2, LC-PCD FI (ppb)	2	1	0.1150							
604.24	Aflatoxin G2, Vicam Aflatest, LC-FI (ppb)	1	1	0.5000							

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
604.23	Aflatoxin G2, LC-MS/MS (ppb)	13									
610.23	Deoxynivalenol, LC-MS/MS (ppb)	15	14	5,583	841.6	5,614	1,636	546.5	29.14%	579.1	12.34%
610.01	Deoxynivalenol, Neogen Veratox for DON (ppb)	13	12	4,934	521.0	4,883	1,428	515.5	29.25%	287.8	12.60%
610.07	Deoxynivalenol, r-Biopharm Ridascreen FAST DON (ppb)	4	4	5,551	348.7	5,551	1,618	809.0	29.15%	918.3	12.36%
610.20	Deoxynivalenol, LC (ppb)	4	4	4,938	363.9	4,938	1,444	722.0	29.24%	323.5	12.58%
610.98	Deoxynivalenol, Other Rapid Test Kit (ppb)	4	4	5,088	742.0	5,088	1,487	743.3	29.22%	275.0	12.52%
610.08	Deoxynivalenol, r-Biopharm Ridascreen FAST DON SC (ppb)	2	2	5,822	2,719						
610.03	Deoxynivalenol, Charm ROSA DON Quant (ppb)	1	1	9,000							
610.05	Deoxynivalenol, Romer AgraQuant DON (ppb)	1	1	6,400							
610.06	Deoxynivalenol, r-Biopharm Ridascreen DON (ppb)	1	1	6,365							
610.25	Deoxynivalenol, GC-MS (ppb)	1	1	8,539							
610.99	Deoxynivalenol, Miscellaneous (ppb)	2	1	4,680							
610.04	Deoxynivalenol, Charm ROSA Fast 5 DON Quant (ppb)	1		5,800							
620.01	Total Fumonisin, Neogen Veratox Fumonisin (ppb)	7	7	4,302	428.5	4,302	1,263	596.6	29.35%	267.1	12.84%
620.09	Total Fumonisin, r-Biopharm Ridascreen FAST FUM (ppb)	6	6	4,274	415.4	4,167	1,224	624.7	29.38%	181.8	12.90%
620.23	Total Fumonisin, LC-MS/MS (ppb)	5	5	4,537	1,189	4,537	1,330	594.7	29.31%	195.1	12.74%
620.02	Total Fumonisin, Neogen Veratox Fumonisin 5/10 (ppb)	3	2	6,275	1,563	6,275	1,823			350.0	12.13%
620.20	Total Fumonisin, LC (ppb)	2	2	4,223	3,079						
620.98	Total Fumonisin, Other Rapid Test Kit (ppb)	2	2	6,563	265.2						
620.05	Total Fumonisin, Charm ROSA FUMQ MeOH (ppb)	1	1	4,900							
620.07	Total Fumonisin, Romer AgraQuant Total Fumonisin (ppb)	1	1	3,545							
620.11	Total Fumonisin, Vicam Fumonitest (ppb)	2	1	3,500							
620.99	Total Fumonisin, Miscellaneous (ppb)	1	1	3,900							
620.04	Total Fumonisin, Charm ROSA Fast 5 FUMQ (ppb)	1		4,200							
621.23	Fumonsin B1, LC-MS/MS (ppb)	14	14	2,773	989.1	2,806	833.1	278.3	29.69%	202.8	13.70%
621.20	Fumonsin B1, LC (ppb)	1	1	2,800							
621.21	Fumonsin B1, LC-FI OPA der. (ppb)	1	1	2,580							
621.22	Fumonsin B1, LC-MS (ppb)	1	1	4,390							
622.23	Fumonisin B2, LC-MS/MS (ppb)	14	14	875.1	290.3	868.8	266.3	88.97	30.65%	89.10	16.34%
622.20	Fumonisin B2, LC (ppb)	1	1	700.0							
622.21	Fumonisin B2, LC-FI OPA der. (ppb)	1	1	552.0							
622.22	Fumonisin B2, LC-MS (ppb)	1	1	990.0							
623.23	Fumonisin B3, LC-MS/MS (ppb)	6	6	331.6	165.6	331.6	104.3	53.25	31.46%	25.55	18.89%
623.22	Fumonisin B3, LC-MS (ppb)	1	1	508.0							
630.23	Ochratoxin A, LC-MS/MS (ppb)	13	13	189.9	61.88	194.9	62.23	21.57	31.92%	20.85	20.46%
630.20	Ochratoxin A, LC (ppb)	4	4	115.7	54.99	115.7	37.46	18.73	32.37%	20.31	22.00%
630.01	Ochratoxin A, Neogen Veratox Ochratoxin (ppb)	2	2	34.04	12.43						
630.03	Ochratoxin A, Romer AgraQuant Ochratoxin (ppb)	2	2	104.7	87.24						
630.04	Ochratoxin A, r-Biopharm Ridascreen Ochratoxin A (ppb)	2	2	140.9	16.55						
630.98	Ochratoxin A, Other Rapid Test Kit (ppb)	2	2	168.9	0.0707						

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
630.05	Ochratoxin A, r-Biopharm Ridascreen FAST Och A (ppb)	1	1	98.83							
630.21	Ochratoxin A, LC-PCD FI (ppb)	1	1	156.3							
640.23	T-2 Toxin, LC-MS/MS (ppb)	11	10	84.62	11.47	84.39	27.55	10.89	32.65%	11.52	22.00%
640.98	T-2 Toxin, Other Rapid Test Kit (ppb)	3	3	278.1	237.1	278.1	87.92	62.17	31.61%	3.867	19.39%
640.03	T-2 Toxin, Romer AgraQuant T-2 (ppb)	1	1	78.28							
640.04	T-2 Toxin, r-Biopharm Ridascreen T-2 (ppb)	1	1	127.5							
640.05	T-2 Toxin, r-Biopharm Ridascreen FAST T-2 (ppb)	1	1	154.1							
640.21	T-2 Toxin, LC-PCD FI (ppb)	1	1	45.00							
640.25	T-2 Toxin, GC-MS (ppb)	1	1	91.00							
641.23	HT-2 Toxin, LC-MS/MS (ppb)	8	8	73.77	11.43	73.77	24.18	10.68	32.77%	9.369	22.00%
641.21	HT-2 Toxin, LC post-col photochem der. FI (ppb)	1	1	46.00							
641.25	HT-2 Toxin, GC-MS (ppb)	1	1	487.0							
642.21	T-2 Toxin + HT-2 Toxin, Neogen Veratox T-2 + HT-2 (ppb)	5	4	178.7	3.034	178.7	57.18	28.59	31.99%	12.33	20.73%
642.98	T-2 Toxin + HT-2 Toxin, Other Rapid Test Kit (ppb)	3	3	152.0	11.33	152.0	48.86	28.21	32.14%	6.467	21.24%
642.99	T-2 Toxin + HT-2 Toxin, Miscellaneous Technique (ppb)	1	1	137.5							
650.24	Zearalenone, LC-MS/MS (ppb)	14	14	988.9	258.8	993.1	303.3	101.3	30.54%	111.9	16.01%
650.01	Zearalenone, Neogen Veratox Zearalenone (ppb)	6	5	713.0	94.61	713.0	219.7	122.8	30.82%	39.26	16.83%
650.20	Zearalenone, LC (ppb)	5	5	917.2	440.0	917.2	280.8	125.6	30.61%	80.70	16.21%
650.06	Zearalenone, r-Biopharm Ridascreen FAST ZON (ppb)	3	3	841.0	191.3	841.0	258.0	149.0	30.68%	100.7	16.42%
650.07	Zearalenone, r-Biopharm Ridascreen FAST ZON SC (ppb)	3	3	616.1	173.8	616.1	190.6	110.1	30.94%	35.17	17.21%
650.98	Zearalenone, Other Rapid Test Kit (ppb)	3	3	1,014	427.2	1,014	309.5	178.7	30.52%	83.83	15.96%
650.02	Zearalenone, Charm ROSA Zearalenone Quant - MeOH (ppb)	1	1	723.0							
650.04	Zearalenone, Romer AgraQuant ZON (ppb)	1	1	1,269							
650.21	Zearalenone, LC-FI, ISO (ppb)	1	1	1,015							
650.99	Zearalenone, Miscellaneous (ppb)	1	1	726.5							

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.



Mycotoxin Contaminants Scheme
Dairy Feed
Test Material Code # 202061

Method Precision Report

Methods Reported: 10
Labs Reporting: 56
Issue Date : 02/29/2020

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)	13	12	29.69	5.149	3.231	2.393	4.021	10.51%	7.78%	13.08%	1.680
601.23	Aflatoxin B1, LC-MS/MS (ppb)	15	15	43.01	10.12	9.447	5.140	10.75	21.97%	11.95%	25.01%	2.092
602.23	Aflatoxin B2, LC-MS/MS (ppb)	15	13	8.503	1.750	0.9045	1.047	1.384	11.29%	13.07%	17.27%	1.321
610.01	Deoxynivalenol, Neogen Veratox for DON (ppb)	13	11	4,934	521.0	296.9	239.4	381.4	6.16%	4.97%	7.92%	1.593
610.23	Deoxynivalenol, LC-MS/MS (ppb)	15	12	5,583	841.6	536.5	492.3	728.1	9.26%	8.49%	12.56%	1.479
621.23	Fumonsin B1, LC-MS/MS (ppb)	14	14	2,773	989.1	980.5	183.8	997.6	35.36%	6.63%	35.97%	5.427
622.23	Fumonisin B2, LC-MS/MS (ppb)	14	13	875.1	290.3	298.4	66.50	305.7	34.17%	7.62%	35.01%	4.597
630.23	Ochratoxin A, LC-MS/MS (ppb)	13	13	189.9	61.88	60.27	19.82	63.45	31.75%	10.44%	33.42%	3.201
640.23	T-2 Toxin, LC-MS/MS (ppb)	11	10	84.62	11.47	8.800	10.40	13.62	10.40%	12.28%	16.10%	1.310
650.24	Zearalenone, LC-MS/MS (ppb)	14	14	988.9	258.8	246.5	111.9	270.7	24.92%	11.31%	27.37%	2.419

Notes: Precision Calculations provided for methods with 8 or more labs used in calculations.