



AAFCO
Proficiency Testing Program



Mycotoxin Contaminants Scheme

Distiller's Dried Grains

Test Material Code # 202161

Method Summary Report

(Precision Report Follows)

Labs Reporting: 59

Methods Reported: 81

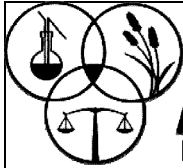
Issue Date : 02/28/2021

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)	11	11	46.16	15.16	42.46	14.13	5.324	33.27%	3.336	22.00%
600.24	Total Aflatoxin, LC-MS/MS (ppb)	7	7	60.60	17.74	60.44	19.91	9.408	32.95%	3.594	22.00%
600.98	Total Aflatoxin, Other Rapid Test Kit (ppb)	5	5	44.42	17.99	44.42	14.76	6.600	33.23%	2.560	22.00%
600.12	Total Aflatoxin, r-Biopharm Ridascreen FAST Afl (ppb)	4	4	53.69	13.69	53.69	17.75	8.873	33.06%	3.057	22.00%
600.14	Total Aflatoxin, Vicam Aflatest (ppb)	4	4	33.31	10.33	33.31	11.16	5.578	33.49%	9.701	22.00%
600.20	Total Aflatoxin, LC (ppb)	4	4	48.47	6.030	48.47	16.07	8.033	33.15%	1.553	22.00%
600.21	Total Aflatoxin, LC-PCD FI (ppb)	3	3	61.31	18.86	61.31	20.19	11.66	32.94%	0.8207	22.00%
600.08	Total Aflatoxin, Romer AgraQuant Total Afl 4-40ppb (ppb)	2	2	42.91	9.900						
600.13	Total Aflatoxin, r-Biopharm Ridascreen FAST Afl SC (ppb)	2	2	38.29	2.240						
600.04	Total Aflatoxin, Charm ROSA Fast 5 Aflatoxin Quant (ppb)	1	1	64.50							
600.22	Total Aflatoxin, Vicam Aflatest, LC-FI (ppb)	1	1	65.58							
601.23	Aflatoxin B1, LC-MS/MS (ppb)	20	20	55.50	20.45	54.73	18.08	5.054	33.04%	5.248	22.00%
601.20	Aflatoxin B1, LC (ppb)	4	3	45.80	1.860	45.80	15.21	10.75	33.20%	1.207	22.00%
601.21	Aflatoxin B1, LC-PCD FI (ppb)	4	3	55.76	17.70	55.76	18.41	10.63	33.02%	0.1723	22.00%
601.24	Aflatoxin B1, Vicam Aflatest, LC-FI (ppb)	2	2	46.27	19.59						
601.91	Aflatoxin B1, Romer AgraQuant Afl B1 (ppb)	1	1	47.27							
601.98	Aflatoxin B1, Other Rapid Test Kit (ppb)	1	1	44.35							
602.23	Aflatoxin B2, LC-MS/MS (ppb)	19	16	5.450	2.164	5.170	1.821	0.5690	35.22%	0.5716	22.00%
602.20	Aflatoxin B2, LC (ppb)	4	4	4.378	0.5910	4.378	1.549	0.7744	35.38%	0.0850	22.00%
602.21	Aflatoxin B2, LC-PCD FI (ppb)	4	4	5.504	1.109	5.504	1.935	0.9676	35.16%	0.1788	22.00%
602.24	Aflatoxin B2, Vicam Aflatest, LC-FI (ppb)	2	2	4.701	1.067						
603.20	Aflatoxin G1, LC (ppb)	2	1	16.50							
603.21	Aflatoxin G1, LC-PCD FI (ppb)	1	1	0.1950							
603.23	Aflatoxin G1, LC-MS/MS (ppb)	16									
603.24	Aflatoxin G1, Vicam Aflatest, LC-FI (ppb)	1		15.00							
604.24	Aflatoxin G2, Vicam Aflatest, LC-FI (ppb)	2	1	0.1390							
604.20	Aflatoxin G2, LC (ppb)	2		0.0000							
604.21	Aflatoxin G2, LC-PCD FI (ppb)	1		0.0100							
604.23	Aflatoxin G2, LC-MS/MS (ppb)	15									

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
610.23	Deoxynivalenol, LC-MS/MS (ppb)	21	21	6,958	3,731	6,950	2,014	549.3	28.97%	290.2	11.95%
610.01	Deoxynivalenol, Neogen Veratox for DON (ppb)	11	11	8,433	2,824	9,045	2,602	980.6	28.77%	439.1	11.48%
610.20	Deoxynivalenol, LC (ppb)	5	5	8,355	2,412	8,355	2,409	1,077	28.83%	497.6	11.62%
610.07	Deoxynivalenol, r-Biopharm Ridascreen FAST DON (ppb)	4	4	12,336	6,256	12,336	3,519	1,760	28.53%	2,331	10.96%
610.98	Deoxynivalenol, Other Rapid Test Kit (ppb)	4	4	9,717	5,813	9,717	2,790	1,395	28.71%	823.5	11.36%
610.08	Deoxynivalenol, r-Biopharm Ridascreen FAST DON SC (ppb)	2	2	9,541	5,841						
610.04	Deoxynivalenol, Charm ROSA Fast 5 DON Quant (ppb)	1	1	40,000							
610.06	Deoxynivalenol, r-Biopharm Ridascreen DON (ppb)	1	1	9,184							
610.22	Deoxynivalenol, LC-MS (ppb)	1	1	1,627							
610.99	Deoxynivalenol, Miscellaneous (ppb)	1	1	10,865							
620.09	Total Fumonisin, r-Biopharm Ridascreen FAST FUM (ppb)	6	6	3,280	647.9	3,280	969.7	494.9	29.57%	215.2	13.38%
620.23	Total Fumonisin, LC-MS/MS (ppb)	6	6	3,368	391.4	3,368	995.3	507.9	29.55%	86.83	13.32%
620.01	Total Fumonisin, Neogen Veratox Fumonisin (ppb)	4	4	3,546	916.9	3,546	1,046	523.2	29.51%	262.5	13.22%
620.02	Total Fumonisin, Neogen Veratox Fumonisin 5/10 (ppb)	4	4	3,573	291.9	3,573	1,054	527.0	29.50%	320.3	13.21%
620.11	Total Fumonisin, Vicam Fumonitest (ppb)	3	3	1,835	1,593	1,835	551.1	318.2	30.04%	200.4	14.60%
620.98	Total Fumonisin, Other Rapid Test Kit (ppb)	3	3	3,388	2,214	3,388	1,001	577.9	29.54%	151.7	13.31%
620.04	Total Fumonisin, Charm ROSA Fast 5 FUMQ (ppb)	1	1	2,550							
620.07	Total Fumonisin, Romer AgraQuant Total Fumonisin (ppb)	1	1	2,740							
621.23	Fumonsin B1, LC-MS/MS (ppb)	20	19	2,355	761.2	2,305	688.2	197.3	29.85%	128.9	14.11%
621.21	Fumonsin B1, LC-FI OPA der. (ppb)	2	2	2,195	205.4						
622.23	Fumonisin B2, LC-MS/MS (ppb)	19	19	650.7	250.0	630.4	194.9	55.90	30.92%	38.33	17.15%
622.21	Fumonisin B2, LC-FI OPA der. (ppb)	2	2	546.5	4.950						
623.23	Fumonisin B3, LC-MS/MS (ppb)	9	9	404.7	269.6	343.7	108.0	45.02	31.43%	32.98	18.79%
630.23	Ochratoxin A, LC-MS/MS (ppb)	17	16	8.900	2.790	8.991	3.119	0.9748	34.70%	1.131	22.00%
630.05	Ochratoxin A, r-Biopharm Ridascreen FAST Och A (ppb)	3	3	7.224	4.725	7.224	2.521	1.456	34.90%	0.9633	22.00%
630.20	Ochratoxin A, LC (ppb)	3	3	9.673	8.561	9.673	3.350	1.934	34.63%	0.6867	22.00%
630.98	Ochratoxin A, Other Rapid Test Kit (ppb)	3	3	15.80	10.66	15.80	5.399	3.117	34.17%	2.333	22.00%
630.01	Ochratoxin A, Neogen Veratox Ochratoxin (ppb)	2	2	173.3	240.0						
630.03	Ochratoxin A, Romer AgraQuant Ochratoxin (ppb)	1	1	3.900							
630.04	Ochratoxin A, r-Biopharm Ridascreen Ochratoxin A (ppb)	1	1	12.00							
630.06	Ochratoxin A, Vicam OchraTest (ppb)	1	1	4.064							
630.21	Ochratoxin A, LC-PCD FI (ppb)	1	1	10.60							
640.23	T-2 Toxin, LC-MS/MS (ppb)	15	14	106.2	47.10	107.2	34.79	11.62	32.44%	9.151	22.00%
640.05	T-2 Toxin, r-Biopharm Ridascreen FAST T-2 (ppb)	2	2	137.0	22.63						
640.03	T-2 Toxin, Romer AgraQuant T-2 (ppb)	1	1	191.0							
640.21	T-2 Toxin, LC-PCD FI (ppb)	1	1	69.00							
640.98	T-2 Toxin, Other Rapid Test Kit (ppb)	1	1	163.5							
641.23	HT-2 Toxin, LC-MS/MS (ppb)	11	11	174.6	57.73	181.8	58.13	21.91	31.98%	12.58	20.68%
641.21	HT-2 Toxin, LC post-col photochem der. FI (ppb)	1	1	107.5							
642.21	T-2 Toxin + HT-2 Toxin, Neogen Veratox T-2 + HT-2 (ppb)	5	5	730.0	359.8	730.0	224.8	100.5	30.80%	93.86	16.77%

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
642.98	T-2 Toxin + HT-2 Toxin, Other Rapid Test Kit (ppb)	4	4	283.0	73.49	283.0	89.43	44.72	31.60%	56.70	19.34%
642.04	T-2 Toxin + HT-2 Toxin, LC-MS (ppb)	1	1	326.5							
642.99	T-2 Toxin + HT-2 Toxin, Miscellaneous Technique (ppb)	1	1	363.5							
650.24	Zearalenone, LC-MS/MS (ppb)	18	18	780.9	283.7	808.2	248.2	73.13	30.71%	34.88	16.52%
650.20	Zearalenone, LC (ppb)	5	5	672.8	216.3	672.8	207.7	92.87	30.87%	53.46	16.98%
650.01	Zearalenone, Neogen Veratox Zearalenone (ppb)	5	4	900.1	178.5	900.1	275.7	137.8	30.62%	51.32	16.25%
650.06	Zearalenone, r-Biopharm Ridascreen FAST ZON (ppb)	4	4	750.1	87.89	750.1	230.8	115.4	30.78%	74.29	16.70%
650.07	Zearalenone, r-Biopharm Ridascreen FAST ZON SC (ppb)	3	3	586.0	222.1	586.0	181.5	104.8	30.98%	20.07	17.34%
650.98	Zearalenone, Other Rapid Test Kit (ppb)	3	3	787.4	540.5	787.4	242.0	139.7	30.73%	110.4	16.58%
650.21	Zearalenone, LC-FI, ISO (ppb)	1	1	566.6							
650.23	Zearalenone, LC-MS (ppb)	1	1	1,173							
650.99	Zearalenone, Miscellaneous (ppb)	1	1	510.0							

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
Distiller's Dried Grains
Test Material Code # 202161

Method Precision Report

Methods Reported: 19
Labs Reporting: 59
Issue Date : 02/28/2021

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)	11	9	46.16	15.16	3.248	2.251	3.952	7.89%	5.47%	9.59%	1.756
600.24	Total Aflatoxin, LC-MS/MS (ppb)	7	6	60.60	17.74	17.82	2.071	17.94	30.74%	3.57%	30.95%	8.665
600.98	Total Aflatoxin, Other Rapid Test Kit (ppb)	5	5	44.42	17.99	17.94	1.954	18.05	40.39%	4.40%	40.63%	9.236
601.23	Aflatoxin B1, LC-MS/MS (ppb)	20	19	55.50	20.45	19.56	3.994	19.97	34.29%	7.00%	35.00%	4.999
602.23	Aflatoxin B2, LC-MS/MS (ppb)	19	14	5.450	2.164	1.328	0.3569	1.375	26.55%	7.13%	27.50%	3.854
610.01	Deoxynivalenol, Neogen Veratox for DON (ppb)	11	9	8,433	2,824	1,488	277.7	1,514	16.68%	3.11%	16.97%	5.450
610.20	Deoxynivalenol, LC (ppb)	5	5	8,355	2,412	2,385	507.8	2,439	28.55%	6.08%	29.19%	4.803
610.23	Deoxynivalenol, LC-MS/MS (ppb)	21	20	6,958	3,731	3,638	252.8	3,647	54.24%	3.77%	54.37%	14.43
620.09	Total Fumonisin, r-Biopharm Ridascreen FAST FUM (ppb)	6	6	3,280	647.9	634.7	184.0	660.8	19.35%	5.61%	20.15%	3.592
620.23	Total Fumonisin, LC-MS/MS (ppb)	6	6	3,368	391.4	387.0	82.92	395.8	11.49%	2.46%	11.75%	4.773
621.23	Fumonsin B1, LC-MS/MS (ppb)	20	18	2,355	761.2	479.7	115.8	493.4	21.62%	5.22%	22.24%	4.262
622.23	Fumonisin B2, LC-MS/MS (ppb)	19	18	650.7	250.0	204.9	30.91	207.2	33.25%	5.01%	33.62%	6.705
623.23	Fumonisin B3, LC-MS/MS (ppb)	9	8	404.7	269.6	79.38	17.96	81.38	24.93%	5.64%	25.56%	4.532
630.23	Ochratoxin A, LC-MS/MS (ppb)	17	16	8,900	2,790	2,685	1,070	2,891	30.17%	12.03%	32.48%	2.701
640.23	T-2 Toxin, LC-MS/MS (ppb)	15	13	106.2	47.10	43.54	6.020	43.96	43.32%	5.99%	43.73%	7.302
641.23	HT-2 Toxin, LC-MS/MS (ppb)	11	10	174.6	57.73	34.59	11.22	36.36	18.33%	5.95%	19.27%	3.241
642.21	T-2 Toxin + HT-2 Toxin, Neogen Veratox T-2 + HT-2 (ppb)	5	5	730.0	359.8	355.3	80.67	364.3	48.67%	11.05%	49.91%	4.516
650.20	Zearalenone, LC (ppb)	5	5	672.8	216.3	213.2	51.01	219.2	31.69%	7.58%	32.59%	4.298
650.24	Zearalenone, LC-MS/MS (ppb)	18	17	780.9	283.7	289.8	31.34	291.4	37.47%	4.05%	37.69%	9.299

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