



AAFCO
Association of American Feed Control Officials



Mycotoxin Contaminants Scheme

Dry Dog Feed

Test Material Code # 202562

Method Summary Report

(Precision Report Follows)

Labs Reporting: 67

Methods Reported: 105

Issue Date : 05/31/2025

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 (Rob R-bar)	Thompson Horwitz %RSD
600.20	Total Aflatoxin, LC (ppb)	14	14	10.43	3.107	10.39	3.590	1.199	34.56%	0.9239	22.00%
600.01	Total Aflatoxin, Neogen Veratox Aflatoxin (ppb)	11	11	10.98	1.182	10.98	3.789	1.428	34.51%	1.527	22.00%
600.24	Total Aflatoxin, LC-MS/MS (ppb)	8	8	11.08	3.073	11.08	3.821	1.689	34.50%	1.333	22.00%
600.14	Total Aflatoxin, Vicam Aflatest (ppb)	5	5	8.800	0.7231	8.800	3.055	1.366	34.72%	0.9836	22.00%
600.08	Total Aflatoxin, Romer AgraQuant Total Afl 4-40ppb (ppb)	3	3	10.22	2.975	10.22	3.532	2.039	34.57%	0.4400	22.00%
600.12	Total Aflatoxin, r-Biopharm Ridascreen FAST Afl (ppb)	3	3	7.658	1.183	7.658	2.668	1.887	34.85%	1.363	22.00%
600.13	Total Aflatoxin, r-Biopharm Ridascreen FAST Afl SC (ppb)	2	2	8.270	0.3818						
600.22	Total Aflatoxin, Vicam Aflatest, LC-FI (ppb)	2	2	11.08	2.725						
600.98	Total Aflatoxin, Other Rapid Test Kit (ppb)	2	2	10.75	4.685						
600.02	Total Aflatoxin, Neogen Veratox Aflatoxin HS (ppb)	1	1	15.50							
600.04	Total Aflatoxin, Charm ROSA Fast 5 Aflatoxin Quant (ppb)	1	1	13.00							
600.11	Total Aflatoxin, r-Biopharm Ridascreen Afl total (ppb)	1	1	12.93							
600.15	Total Aflatoxin, Vicam Afla-V (ppb)	1	1	16.05							
600.16	Total Aflatoxin, RANDOX Biochip Array (ppb)	1	1	20.96							
600.23	Total Aflatoxin, LC-MS (ppb)	1	1	13.24							
601.23	Aflatoxin B1, LC-MS/MS (ppb)	20	19	10.47	3.204	10.53	3.639	1.044	34.55%	1.371	22.00%
601.20	Aflatoxin B1, LC (ppb)	13	13	9.015	2.229	9.023	3.130	1.085	34.69%	0.8544	22.00%
601.16	Aflatoxin B1, RANDOX Biochip Array (ppb)	3	3	14.80	0.4616	14.80	5.067	2.925	34.23%	1.837	22.00%
601.24	Aflatoxin B1, Vicam Aflatest, LC-FI (ppb)	3	3	9.256	2.606	9.256	3.209	1.853	34.67%	0.4107	22.00%
601.98	Aflatoxin B1, Other Rapid Test Kit (ppb)	3	3	11.37	1.104	11.37	3.920	2.263	34.47%	0.8633	22.00%
601.91	Aflatoxin B1, Romer AgraQuant Afl B1 (ppb)	1	1	13.15							
601.92	Aflatoxin B1, r-Biopharm Ridascreen Afl B1I (ppb)	1	1	11.77							
601.99	Aflatoxin B1, Miscellaneous (ppb)	1	1	1.300							
602.20	Aflatoxin B2, LC (ppb)	11	10	0.6765	0.2060	0.6688	0.2490	0.0984	37.23%	0.1864	22.00%
602.23	Aflatoxin B2, LC-MS/MS (ppb)	20	7	0.8760	0.2956	0.8760	0.3237	0.1529	36.96%	0.1268	22.00%
602.24	Aflatoxin B2, Vicam Aflatest, LC-FI (ppb)	3	3	0.8163	0.1641	0.8163	0.3023	0.1745	37.03%	0.0487	22.00%
603.16	Aflatoxin G1, RANDOX Biochip Array (ppb)	2	2	2.143	0.9652						
603.99	Aflatoxin G1, Miscellaneous (ppb)	1	1	14.67							
603.20	Aflatoxin G1, LC (ppb)	4									

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 (Rob R-bar)	Thompson Horwitz %RSD
603.23	Aflatoxin G1, LC-MS/MS (ppb)	17									
603.24	Aflatoxin G1, Vicam Aflatest, LC-FI (ppb)	1		15.00							
604.23	Aflatoxin G2, LC-MS/MS (ppb)	16	1								
604.20	Aflatoxin G2, LC (ppb)	4									
604.24	Aflatoxin G2, Vicam Aflatest, LC-FI (ppb)	1		5.000							
610.23	Deoxynivalenol, LC-MS/MS (ppb)	21	21	492.7	167.4	486.3	151.4	41.30	31.14%	25.10	17.83%
610.01	Deoxynivalenol, Neogen Veratox for DON (ppb)	11	9	488.2	191.6	533.4	165.7	69.04	31.06%	72.86	17.58%
610.20	Deoxynivalenol, LC (ppb)	9	9	539.0	188.1	501.9	156.1	65.06	31.11%	45.40	17.75%
610.05	Deoxynivalenol, Romer AgraQuant DON (ppb)	3	3	545.3	238.1	545.3	169.3	97.72	31.04%	112.6	17.53%
610.07	Deoxynivalenol, r-Biopharm Ridascreen FAST DON (ppb)	4	3	568.2	106.5	568.2	176.2	101.7	31.01%	32.33	17.42%
610.16	Deoxynivalenol, RANDOX Biochip Array (ppb)	3	3	552.7	155.6	552.7	171.5	121.3	31.03%	41.62	17.49%
610.98	Deoxynivalenol, Other Rapid Test Kit (ppb)	4	3	444.5	387.5	444.5	138.8	80.11	31.21%	4.697	18.07%
610.99	Deoxynivalenol, Miscellaneous (ppb)	3	3	497.8	180.6	497.8	154.9	89.43	31.12%	62.18	17.77%
610.02	Deoxynivalenol, Neogen Veratox for DON HS (ppb)	1	1	559.3							
610.04	Deoxynivalenol, Charm ROSA Fast 5 DON Quant (ppb)	1	1	335.0							
610.08	Deoxynivalenol, r-Biopharm Ridascreen FAST DON SC (ppb)	1	1	450.0							
610.09	Deoxynivalenol, Vicam DON-V (ppb)	1	1	710.0							
610.22	Deoxynivalenol, LC-MS (ppb)	1	1	401.5							
610.25	Deoxynivalenol, GC-MS (ppb)	1	1	877.5							
610.06	Deoxynivalenol, r-Biopharm Ridascreen DON (ppb)	1		500.0							
620.23	Total Fumonisin, LC-MS/MS (ppb)	9	9	1,274	226.5	1,292	391.9	163.3	30.33%	81.93	15.39%
620.01	Total Fumonisin, Neogen Veratox Fumonisin (ppb)	8	7	1,001	351.7	973.8	297.6	140.6	30.56%	91.65	16.06%
620.09	Total Fumonisin, r-Biopharm Ridascreen FAST FUM (ppb)	5	5	807.2	633.0	807.2	247.9	110.9	30.71%	122.3	16.52%
620.07	Total Fumonisin, Romer AgraQuant Total Fumonisin (ppb)	3	3	1,113	296.7	1,113	339.0	239.7	30.45%		15.74%
620.11	Total Fumonisin, Vicam Fumonitest (ppb)	3	3	952.7	179.2	952.7	291.3	168.2	30.58%	167.5	16.11%
620.16	Total Fumonisin, RANDOX Biochip Array (ppb)	3	3	916.9	225.6	916.9	280.7	162.0	30.61%	58.63	16.21%
620.98	Total Fumonisin, Other Rapid Test Kit (ppb)	3	3	1,033	894.1	1,033	315.0	222.8	30.51%	138.2	15.92%
620.20	Total Fumonisin, LC (ppb)	2	2	1,142	528.2						
620.02	Total Fumonisin, Neogen Veratox Fumonisin 5/10 (ppb)	1	1	1,675							
620.03	Total Fumonisin, Neogen Veratox Fumonisin HS (ppb)	1	1	730.0							
620.04	Total Fumonisin, Charm ROSA Fast 5 FUMQ (ppb)	1	1	1,750							
620.08	Total Fumonisin, r-Biopharm Ridascreen Fumonisin (ppb)	1	1	1,280							
620.12	Total Fumonisin, Vicam Fumonitest 200 (ppb)	1	1	945.0							
620.22	Total Fumonisin, LC-MS (ppb)	1	1	1,372							
620.99	Total Fumonisin, Miscellaneous (ppb)	1	1	888.8							
621.23	Fumonsin B1, LC-MS/MS (ppb)	21	21	865.4	210.9	854.6	262.1	71.48	30.67%	37.56	16.38%
621.21	Fumonsin B1, LC-FI OPA der. (ppb)	3	3	739.9	25.29	739.9	227.8	131.5	30.79%	39.38	16.74%
621.20	Fumonsin B1, LC (ppb)	2	2	1,026	621.4						
621.98	Fumonsin B1, Other Rapid Test Kit (ppb)	1	1	751.4							
622.23	Fumonisin B2, LC-MS/MS (ppb)	21	21	268.9	71.96	268.4	84.94	23.17	31.64%	18.96	19.50%

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 (Rob R-bar)	Thompson Horwitz %RSD
622.21	Fumonisin B2, LC-FI OPA der. (ppb)	3	3	216.0	30.36	216.0	68.75	48.62	31.83%		20.15%
622.20	Fumonisin B2, LC (ppb)	1	1	181.0							
623.23	Fumonisin B3, LC-MS/MS (ppb)	14	12	135.7	43.01	127.7	41.24	14.88	32.29%	14.37	21.80%
630.23	Ochratoxin A, LC-MS/MS (ppb)	21	21	14.54	5.646	14.07	4.822	1.315	34.28%	1.716	22.00%
630.20	Ochratoxin A, LC (ppb)	10	10	19.10	14.27	15.40	5.267	2.082	34.19%	1.402	22.00%
630.01	Ochratoxin A, Neogen Veratox Ochratoxin (ppb)	4	4	8.864	6.623	8.864	3.076	1.538	34.71%	0.2633	22.00%
630.05	Ochratoxin A, r-Biopharm Ridascreen FAST Och A (ppb)	3	3	10.90	9.056	10.90	3.760	2.659	34.51%	1.872	22.00%
630.06	Ochratoxin A, Vicam OchraTest (ppb)	3	3	15.84	2.304	15.84	5.413	3.125	34.17%	1.355	22.00%
630.16	Ochratoxin A, RANDOX Biochip Array (ppb)	3	3	10.83	2.935	10.83	3.739	2.158	34.52%	2.380	22.00%
630.98	Ochratoxin A, Other Rapid Test Kit (ppb)	3	3	12.34	3.244	12.34	4.244	2.450	34.40%	2.157	22.00%
630.03	Ochratoxin A, Romer AgraQuant Ochratoxin (ppb)	2	2	12.70	1.089						
630.04	Ochratoxin A, r-Biopharm Ridascreen Ochratoxin A (ppb)	2	2	16.77	0.9157						
630.99	Ochratoxin A, Miscellaneous (ppb)	1	1	12.80							
640.23	T-2 Toxin, LC-MS/MS (ppb)	19	19	100.7	27.99	102.4	33.26	9.537	32.48%	9.353	22.00%
640.03	T-2 Toxin, Romer AgraQuant T-2 (ppb)	2	2	107.7	70.80						
640.98	T-2 Toxin, Other Rapid Test Kit (ppb)	2	2	95.14	62.39						
640.05	T-2 Toxin, r-Biopharm Ridascreen FAST T-2 (ppb)	2	1	138.8							
640.25	T-2 Toxin, GC-MS (ppb)	1	1	151.5							
641.23	HT-2 Toxin, LC-MS/MS (ppb)	14	9	17.87	6.392	17.87	6.085	2.535	34.06%	3.202	22.00%
642.04	T-2 Toxin + HT-2 Toxin, LC-MS (ppb)	5	5	129.3	17.69	129.3	41.73	18.66	32.28%	4.248	21.76%
642.21	T-2 Toxin + HT-2 Toxin, Neogen Veratox T-2 + HT-2 (ppb)	5	4	133.3	20.35	133.3	42.98	21.49	32.25%	6.110	21.67%
642.98	T-2 Toxin + HT-2 Toxin, Other Rapid Test Kit (ppb)	4	4	105.7	40.32	105.7	34.30	17.15	32.45%	11.27	22.00%
642.16	T-2 Toxin + HT-2 Toxin, RANDOX Biochip Array (ppb)	3	3	111.8	30.75	111.8	36.22	20.91	32.40%	17.93	22.00%
642.99	T-2 Toxin + HT-2 Toxin, Miscellaneous Technique (ppb)	3	3	126.5	27.20	126.5	40.86	23.59	32.30%	22.83	21.84%
650.24	Zearalenone, LC-MS/MS (ppb)	18	18	91.53	33.92	91.42	29.79	8.776	32.58%	8.702	22.00%
650.20	Zearalenone, LC (ppb)	11	11	87.92	24.38	91.84	29.92	11.28	32.58%	7.927	22.00%
650.01	Zearalenone, Neogen Veratox Zearalenone (ppb)	5	5	84.70	22.75	84.70	27.65	12.37	32.65%	10.77	22.00%
650.04	Zearalenone, Romer AgraQuant ZON (ppb)	3	3	89.04	19.18	89.04	29.03	16.76	32.61%	6.560	22.00%
650.16	Zearalenone, RANDOX Biochip Array (ppb)	3	3	92.28	30.89	92.28	30.06	17.35	32.57%	14.75	22.00%
650.98	Zearalenone, Other Rapid Test Kit (ppb)	3	3	84.54	50.84	84.54	27.60	15.94	32.65%	6.330	22.00%
650.99	Zearalenone, Miscellaneous (ppb)	3	3	100.6	13.16	100.6	32.68	18.87	32.50%	27.41	22.00%
650.06	Zearalenone, r-Biopharm Ridascreen FAST ZON (ppb)	3	2	81.71	2.417	81.71	26.70				22.00%
650.07	Zearalenone, r-Biopharm Ridascreen FAST ZON SC (ppb)	2	2	99.46	21.73						
650.21	Zearalenone, LC-FI, ISO (ppb)	2	2	76.57	10.72						
650.02	Zearalenone, Charm ROSA Zearalenone Quant - MeOH (ppb)	1	1	57.00							
650.23	Zearalenone, LC-MS (ppb)	1	1	98.00							

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.

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 (Rob R-bar)	Thompson Horwitz %RSD
-------------	--------------------	-------------------------	------------------------	----------	--------	----------------------------	---------------------------	--------------------------	----------------	---------------------------	-----------------------



AAFCO
Association of American Feed Control Officials



Mycotoxin Contaminants Scheme

Dry Dog Feed

Test Material Code # 202562

Method Precision Report

Methods Reported: 25

Labs Reporting: 67

Issue Date : 05/31/2025

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	10	10.98	1.182	0.4542	1.582	1.646	4.10%	14.29%	14.87%	1.040
600.14	Total Aflatoxin, Vicam Aflatest (ppb)	5	5	8.800	0.7231	0.4310	0.8211	0.9273	4.90%	9.33%	10.54%	1.129
600.20	Total Aflatoxin, LC (ppb)	14	13	10.43	3.107	3.155	0.6915	3.229	30.64%	6.72%	31.36%	4.670
600.24	Total Aflatoxin, LC-MS/MS (ppb)	8	8	11.08	3.073	3.008	0.8888	3.136	27.16%	8.02%	28.32%	3.529
601.20	Aflatoxin B1, LC (ppb)	13	12	9.015	2.229	2.180	0.6605	2.277	24.66%	7.47%	25.77%	3.448
601.23	Aflatoxin B1, LC-MS/MS (ppb)	20	18	10.47	3.204	3.185	1.014	3.343	30.73%	9.78%	32.25%	3.296
602.20	Aflatoxin B2, LC (ppb)	11	9	0.6765	0.2060	0.1946	0.1234	0.2305	28.19%	17.87%	33.38%	1.867
602.23	Aflatoxin B2, LC-MS/MS (ppb)	20	6	0.8760	0.2956	0.3201	0.0529	0.3245	37.00%	6.12%	37.50%	6.130
610.01	Deoxynivalenol, Neogen Veratox for DON (ppb)	11	8	488.2	191.6	48.02	53.20	71.67	8.74%	9.69%	13.05%	1.347
610.20	Deoxynivalenol, LC (ppb)	9	7	539.0	188.1	72.45	6.740	72.76	14.60%	1.36%	14.66%	10.80
610.23	Deoxynivalenol, LC-MS/MS (ppb)	21	19	492.7	167.4	142.0	22.56	143.8	30.47%	4.84%	30.86%	6.373
620.01	Total Fumonisin, Neogen Veratox Fumonisin (ppb)	8	7	1,001	351.7	349.1	59.41	354.2	34.88%	5.94%	35.38%	5.961
620.09	Total Fumonisin, r-Biopharm Ridascreen FAST FUM (ppb)	5	5	807.2	633.0	628.5	106.7	637.5	77.86%	13.22%	78.97%	5.976
620.23	Total Fumonisin, LC-MS/MS (ppb)	9	9	1,274	226.5	222.3	60.98	230.5	17.45%	4.79%	18.09%	3.781
621.23	Fumonsin B1, LC-MS/MS (ppb)	21	18	865.4	210.9	167.6	23.65	169.3	20.28%	2.86%	20.48%	7.160
622.23	Fumonisin B2, LC-MS/MS (ppb)	21	19	268.9	71.96	69.49	13.93	70.88	25.25%	5.06%	25.76%	5.089
623.23	Fumonisin B3, LC-MS/MS (ppb)	14	10	135.7	43.01	12.56	12.86	17.98	10.36%	10.60%	14.83%	1.398
630.20	Ochratoxin A, LC (ppb)	10	9	19.10	14.27	3.141	0.9796	3.290	21.38%	6.67%	22.40%	3.358
630.23	Ochratoxin A, LC-MS/MS (ppb)	21	20	14.54	5.646	3.888	1.584	4.198	28.46%	11.60%	30.73%	2.650
640.23	T-2 Toxin, LC-MS/MS (ppb)	19	18	100.7	27.99	21.81	10.77	24.32	20.86%	10.31%	23.27%	2.258
641.23	HT-2 Toxin, LC-MS/MS (ppb)	14	8	17.87	6.392	5.878	2.358	6.333	34.75%	13.94%	37.44%	2.686
642.04	T-2 Toxin + HT-2 Toxin, LC-MS (ppb)	5	5	129.3	17.69	17.52	3.454	17.86	13.55%	2.67%	13.81%	5.170
650.01	Zearalenone, Neogen Veratox Zearalenone (ppb)	5	5	84.70	22.75	21.84	9.034	23.63	25.78%	10.67%	27.90%	2.616
650.20	Zearalenone, LC (ppb)	11	10	87.92	24.38	11.88	6.162	13.38	12.60%	6.53%	14.19%	2.172
650.24	Zearalenone, LC-MS/MS (ppb)	18	18	91.53	33.92	33.49	7.621	34.34	36.59%	8.33%	37.52%	4.506

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