



AAFCO
Association of American Feed Control Officials



Mycotoxin Contaminants Scheme

Dry Cat Feed

Test Material Code # 202362

Method Summary Report

(Precision Report Follows)

Labs Reporting: 64

Methods Reported: 95

Issue Date : 05/31/2023

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
600.01	Total Aflatoxin, Neogen Veratox Aflatoxin (ppb)	11	11	6.582	2.033	6.310	2.211	0.8331	35.03%	1.184	
600.20	Total Aflatoxin, LC (ppb)	11	11	6.035	1.810	6.040	2.118	0.7984	35.07%	0.5923	
600.14	Total Aflatoxin, Vicam Aflatest (ppb)	6	6	8.388	7.210	7.353	2.565	1.309	34.88%	0.6140	
600.24	Total Aflatoxin, LC-MS/MS (ppb)	6	6	8.931	3.469	8.931	3.099	1.582	34.70%	0.8060	
600.08	Total Aflatoxin, Romer AgraQuant Total Afl 4-40ppb (ppb)	3	3	6.368	2.347	6.368	2.230	1.577	35.02%	0.2900	
600.12	Total Aflatoxin, r-Biopharm Ridascreen FAST Afl (ppb)	3	3	6.118	2.601	6.118	2.145	1.238	35.06%	0.7190	
600.98	Total Aflatoxin, Other Rapid Test Kit (ppb)	3	3	9.605	2.983	9.605	3.327	1.921	34.63%	0.9167	
600.13	Total Aflatoxin, r-Biopharm Ridascreen FAST Afl SC (ppb)	2	2	5.963	1.375						
600.21	Total Aflatoxin, LC-PCD FI (ppb)	2	2	8.130	1.457						
600.22	Total Aflatoxin, Vicam Aflatest, LC-FI (ppb)	2	2	8.495	0.9405						
600.99	Total Aflatoxin, Miscellaneous (ppb)	2	2	4.873	0.1796						
601.23	Aflatoxin B1, LC-MS/MS (ppb)	16	15	8.369	3.273	8.268	2.875	0.9279	34.77%	1.761	
601.20	Aflatoxin B1, LC (ppb)	9	9	6.223	1.835	6.223	2.181	0.9086	35.04%	0.5463	
601.24	Aflatoxin B1, Vicam Aflatest, LC-FI (ppb)	3	3	7.488	1.311	7.488	2.611	1.507	34.87%	0.8900	
601.16	Aflatoxin B1, RANDOX Biochip Array (ppb)	2	2	6.438	4.296						
601.21	Aflatoxin B1, LC-PCD FI (ppb)	2	2	4.875	2.503						
601.98	Aflatoxin B1, Other Rapid Test Kit (ppb)	2	2	8.943	1.976						
601.91	Aflatoxin B1, Romer AgraQuant Afl B1 (ppb)	1	1	3.505							
601.99	Aflatoxin B1, Miscellaneous (ppb)	1	1	4.000							
602.20	Aflatoxin B2, LC (ppb)	8	8	0.6069	0.2480	0.5494	0.2056	0.0909	37.43%	0.1447	
602.23	Aflatoxin B2, LC-MS/MS (ppb)	14	3	0.8492	0.3637	0.8492	0.3141	0.2267	36.99%	0.0697	
602.24	Aflatoxin B2, Vicam Aflatest, LC-FI (ppb)	3	2	0.5950	0.0424	0.5950	0.2222			0.2300	
602.21	Aflatoxin B2, LC-PCD FI (ppb)	1	1	0.4900							
603.16	Aflatoxin G1, RANDOX Biochip Array (ppb)	1	1	0.9600							
603.23	Aflatoxin G1, LC-MS/MS (ppb)	12	1								
603.99	Aflatoxin G1, Miscellaneous (ppb)	1	1	1.000							
603.20	Aflatoxin G1, LC (ppb)	2		0.0000							
603.21	Aflatoxin G1, LC-PCD FI (ppb)	1		0.0000							
603.24	Aflatoxin G1, Vicam Aflatest, LC-FI (ppb)	1		15.00							

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604.23	Aflatoxin G2, LC-MS/MS (ppb)	11	1								
604.98	Aflatoxin G2, Other Rapid Test Kit (ppb)	1	1	6.300							
604.20	Aflatoxin G2, LC (ppb)	2		0.0000							
604.21	Aflatoxin G2, LC-PCD FI (ppb)	1		0.0000							
604.24	Aflatoxin G2, Vicam Aflatest, LC-FI (ppb)	1		5.000							
610.23	Deoxynivalenol, LC-MS/MS (ppb)	19	19	2,336	751.9	2,444	728.4	208.9	29.81%	133.2	
610.01	Deoxynivalenol, Neogen Veratox for DON (ppb)	9	9	3,381	1,441	3,562	1,051	437.9	29.50%	158.9	
610.20	Deoxynivalenol, LC (ppb)	8	8	2,689	452.7	2,689	799.4	353.3	29.73%	121.7	
610.05	Deoxynivalenol, Romer AgraQuant DON (ppb)	4	4	3,578	916.5	3,578	1,055	527.7	29.50%	60.01	
610.98	Deoxynivalenol, Other Rapid Test Kit (ppb)	5	4	1,259	1,451	1,259	382.0	191.0	30.35%	64.20	
610.07	Deoxynivalenol, r-Biopharm Ridascreen FAST DON (ppb)	3	3	2,628	251.7	2,628	781.8	451.3	29.75%	394.7	
610.99	Deoxynivalenol, Miscellaneous (ppb)	3	3	2,372	751.6	2,372	707.4	500.2	29.83%	645.5	
610.16	Deoxynivalenol, RANDOX Biochip Array (ppb)	2	2	1,547	1,057						
610.08	Deoxynivalenol, r-Biopharm Ridascreen FAST DON SC (ppb)	1	1	2,150							
610.09	Deoxynivalenol, Vicam DON-V (ppb)	1	1	2,308							
610.22	Deoxynivalenol, LC-MS (ppb)	1	1	2,013							
620.23	Total Fumonisin, LC-MS/MS (ppb)	5	5	1,242	133.8	1,242	377.1	168.6	30.36%	53.00	
620.01	Total Fumonisin, Neogen Veratox Fumonisin (ppb)	7	4	697.5	275.7	697.5	215.1	134.4	30.84%	150.0	
620.07	Total Fumonisin, Romer AgraQuant Total Fumonisin (ppb)	3	3	905.0	500.7	905.0	277.1	195.9	30.62%	10.00	
620.09	Total Fumonisin, r-Biopharm Ridascreen FAST FUM (ppb)	4	3	840.0	365.2	840.0	257.7	148.8	30.68%	49.00	
620.11	Total Fumonisin, Vicam Fumonitest (ppb)	3	3	936.0	584.4	936.0	286.3	202.5	30.59%	103.2	
620.98	Total Fumonisin, Other Rapid Test Kit (ppb)	3	3	1,402	85.20	1,402	424.1	244.9	30.26%	173.3	
620.16	Total Fumonisin, RANDOX Biochip Array (ppb)	2	2	379.3	124.9						
620.20	Total Fumonisin, LC (ppb)	2	2	1,180	412.6						
620.99	Total Fumonisin, Miscellaneous (ppb)	2	2	731.6	91.07						
620.02	Total Fumonisin, Neogen Veratox Fumonisin 5/10 (ppb)	1	1	0.7500							
621.23	Fumonsin B1, LC-MS/MS (ppb)	13	11	777.9	179.1	785.8	241.5	91.03	30.74%	45.50	
621.20	Fumonsin B1, LC (ppb)	3	3	558.3	307.2	558.3	173.2	100.00	31.02%	40.50	
621.21	Fumonsin B1, LC-FI OPA der. (ppb)	2	2	469.8	98.64						
622.23	Fumonisin B2, LC-MS/MS (ppb)	12	11	227.9	52.81	231.1	73.41	27.67	31.77%	22.24	
622.20	Fumonisin B2, LC (ppb)	3	3	160.9	84.70	160.9	51.64	29.81	32.09%	14.00	
622.21	Fumonisin B2, LC-FI OPA der. (ppb)	2	1	168.6							
623.23	Fumonisin B3, LC-MS/MS (ppb)	7	6	77.11	14.74	77.11	25.24	12.88	32.73%	8.854	
630.23	Ochratoxin A, LC-MS/MS (ppb)	15	13	10.04	3.806	9.985	3.455	1.198	34.60%	1.347	
630.20	Ochratoxin A, LC (ppb)	11	11	7.995	2.245	7.898	2.750	1.036	34.82%	1.014	
630.03	Ochratoxin A, Romer AgraQuant Ochratoxin (ppb)	3	3	5.425	1.161	5.425	1.908	1.349	35.17%	0.1000	
630.05	Ochratoxin A, r-Biopharm Ridascreen FAST Och A (ppb)	3	3	4.823	2.105	4.823	1.702	0.9825	35.29%	0.5710	
630.01	Ochratoxin A, Neogen Veratox Ochratoxin (ppb)	2	2	15.75	19.45						
630.06	Ochratoxin A, Vicam OchraTest (ppb)	2	2	8.023	1.913						
630.16	Ochratoxin A, RANDOX Biochip Array (ppb)	2	2	4.895	1.761						

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630.98	Ochratoxin A, Other Rapid Test Kit (ppb)	2	2	9.400	10.32						
630.99	Ochratoxin A, Miscellaneous (ppb)	2	2	4.073	0.1025						
630.04	Ochratoxin A, r-Biopharm Ridascreen Ochratoxin A (ppb)	1	1	3.645							
640.23	T-2 Toxin, LC-MS/MS (ppb)	15	14	126.5	25.75	125.2	40.44	13.51	32.31%	7.944	
640.03	T-2 Toxin, Romer AgraQuant T-2 (ppb)	2	2	101.1	67.03						
640.98	T-2 Toxin, Other Rapid Test Kit (ppb)	2	2	164.8	13.72						
640.05	T-2 Toxin, r-Biopharm Ridascreen FAST T-2 (ppb)	1	1	127.8							
641.23	HT-2 Toxin, LC-MS/MS (ppb)	11	10	170.3	39.07	170.3	54.57	21.57	32.04%	9.849	
642.21	T-2 Toxin + HT-2 Toxin, Neogen Veratox T-2 + HT-2 (ppb)	4	4	346.3	78.53	346.3	108.8	54.41	31.43%	24.06	
642.04	T-2 Toxin + HT-2 Toxin, LC-MS (ppb)	3	3	305.7	70.22	305.7	96.40	55.66	31.53%	5.137	
642.98	T-2 Toxin + HT-2 Toxin, Other Rapid Test Kit (ppb)	3	3	278.5	134.0	278.5	88.03	50.82	31.61%	6.337	
642.16	T-2 Toxin + HT-2 Toxin, RANDOX Biochip Array (ppb)	2	2	177.7	100.7						
642.99	T-2 Toxin + HT-2 Toxin, Miscellaneous Technique (ppb)	2	2	207.6	105.5						
642.02	T-2 Toxin + HT-2 Toxin, LC (ppb)	1	1	365.1							
650.24	Zearalenone, LC-MS/MS (ppb)	13	12	372.9	139.1	388.3	121.7	43.90	31.33%	29.59	
650.20	Zearalenone, LC (ppb)	7	7	370.9	58.24	361.0	113.3	53.54	31.39%	19.88	
650.01	Zearalenone, Neogen Veratox Zearalenone (ppb)	4	4	296.5	34.40	296.5	93.56	46.78	31.56%	15.41	
650.04	Zearalenone, Romer AgraQuant ZON (ppb)	4	3	428.3	79.01	428.3	133.8	94.62	31.25%	1.050	
650.06	Zearalenone, r-Biopharm Ridascreen FAST ZON (ppb)	3	3	333.6	133.8	333.6	104.9	60.59	31.46%	47.52	
650.98	Zearalenone, Other Rapid Test Kit (ppb)	3	3	376.6	119.4	376.6	118.1	68.17	31.36%	41.20	
650.07	Zearalenone, r-Biopharm Ridascreen FAST ZON SC (ppb)	2	2	298.1	29.13						
650.16	Zearalenone, RANDOX Biochip Array (ppb)	2	2	329.8	98.76						
650.21	Zearalenone, LC-FI, ISO (ppb)	2	2	353.3	49.50						
650.99	Zearalenone, Miscellaneous (ppb)	2	2	266.5	86.97						
650.05	Zearalenone, r-Biopharm Ridascreen Zearalenon (ppb)	1	1	267.0							
650.23	Zearalenone, LC-MS (ppb)	1	1	443.5							

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.



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Mycotoxin Contaminants Scheme
Dry Cat Feed
Test Material Code # 202362

Method Precision Report

Methods Reported: 20
Labs Reporting: 64
Issue Date : 05/31/2023

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 %rds	Reproducibility %RSD	sR/sr
600.01	Total Aflatoxin, Neogen Veratox Aflatoxin (ppb)	11	10	6.582	2.033	0.9704	1.010	1.400	15.97%	16.62%	23.05%	1.387
600.14	Total Aflatoxin, Vicam Aflatest (ppb)	6	5	8.388	7.210	3.053	0.3732	3.076	53.89%	6.59%	54.29%	8.242
600.20	Total Aflatoxin, LC (ppb)	11	11	6.035	1.810	1.784	0.4336	1.836	29.56%	7.19%	30.42%	4.234
600.24	Total Aflatoxin, LC-MS/MS (ppb)	6	6	8.931	3.469	3.434	0.6949	3.504	38.45%	7.78%	39.23%	5.042
601.20	Aflatoxin B1, LC (ppb)	9	9	6.223	1.835	1.810	0.4260	1.860	29.09%	6.85%	29.89%	4.366
601.23	Aflatoxin B1, LC-MS/MS (ppb)	16	14	8.369	3.273	3.094	1.321	3.364	38.16%	16.29%	41.49%	2.547
602.20	Aflatoxin B2, LC (ppb)	8	7	0.6069	0.2480		0.1252			23.92%		
610.01	Deoxynivalenol, Neogen Veratox for DON (ppb)	9	7	3,381	1,441	758.0	96.84	764.2	19.56%	2.50%	19.72%	7.891
610.20	Deoxynivalenol, LC (ppb)	8	8	2,689	452.7	447.6	95.37	457.7	16.65%	3.55%	17.02%	4.799
610.23	Deoxynivalenol, LC-MS/MS (ppb)	19	18	2,336	751.9	580.5	118.5	592.5	23.71%	4.84%	24.20%	5.001
620.23	Total Fumonisin, LC-MS/MS (ppb)	5	5	1,242	133.8	131.2	37.29	136.4	10.56%	3.00%	10.98%	3.657
621.23	Fumonsin B1, LC-MS/MS (ppb)	13	10	777.9	179.1	173.7	31.67	176.5	21.76%	3.97%	22.12%	5.574
622.23	Fumonisin B2, LC-MS/MS (ppb)	12	10	227.9	52.81	32.79	17.98	37.40	13.65%	7.49%	15.57%	2.080
623.23	Fumonisin B3, LC-MS/MS (ppb)	7	5	77.11	14.74	16.29	3.068	16.58	21.01%	3.96%	21.38%	5.402
630.20	Ochratoxin A, LC (ppb)	11	10	7.995	2.245	2.118	0.6615	2.219	27.42%	8.56%	28.73%	3.355
630.23	Ochratoxin A, LC-MS/MS (ppb)	15	13	10.04	3.806	3.745	0.9627	3.867	37.32%	9.59%	38.53%	4.017
640.23	T-2 Toxin, LC-MS/MS (ppb)	15	13	126.5	25.75	20.55	5.753	21.34	16.81%	4.71%	17.46%	3.709
641.23	HT-2 Toxin, LC-MS/MS (ppb)	11	9	170.3	39.07	33.25	8.595	34.34	18.73%	4.84%	19.35%	3.995
650.20	Zearalenone, LC (ppb)	7	5	370.9	58.24	20.56	2.172	20.67	5.99%	0.63%	6.02%	9.515
650.24	Zearalenone, LC-MS/MS (ppb)	13	11	372.9	139.1	95.91	27.03	99.65	23.82%	6.71%	24.75%	3.687

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