



AAFCO
Association of American Feed Control Officials



Mycotoxin Contaminants Scheme

Sheep Feed

Test Material Code # 202363

Method Summary Report

(Precision Report Follows)

Labs Reporting: 64

Methods Reported: 90

Issue Date : 08/31/2023

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)	10	9	4.457	1.891	4.374	1.548	0.6448	35.38%	0.6159	22.00%
600.20	Total Aflatoxin, LC (ppb)	9	8	5.713	7.620	3.417	1.217	0.5379	35.62%	0.2938	22.00%
600.24	Total Aflatoxin, LC-MS/MS (ppb)	8	7	3.076	0.7725	3.076	1.099	0.5192	35.72%	0.6044	22.00%
600.14	Total Aflatoxin, Vicam Aflatest (ppb)	6	6	6.221	8.297	4.028	1.428	0.7288	35.46%	0.3421	22.00%
600.12	Total Aflatoxin, r-Biopharm Ridascreen FAST Afl (ppb)	3	3	4.669	0.6559	4.669	1.649	1.166	35.32%	0.4215	22.00%
600.22	Total Aflatoxin, Vicam Aflatest, LC-FI (ppb)	3	3	3.915	2.454	3.915	1.389	0.8021	35.49%	0.4300	22.00%
600.08	Total Aflatoxin, Romer AgraQuant Total Afl 4-40ppb (ppb)	2	2	6.665	2.044						
600.13	Total Aflatoxin, r-Biopharm Ridascreen FAST Afl SC (ppb)	2	2	5.275	1.153						
600.98	Total Aflatoxin, Other Rapid Test Kit (ppb)	2	2	4.425	2.510						
600.99	Total Aflatoxin, Miscellaneous (ppb)	2	2	3.399	1.558						
600.10	Total Aflatoxin, TLC (ppb)	1	1	2.200							
600.21	Total Aflatoxin, LC-PCD FI (ppb)	1	1	6.280							
600.23	Total Aflatoxin, LC-MS (ppb)	1		0.5000							
601.23	Aflatoxin B1, LC-MS/MS (ppb)	17	11	2.727	0.8351	2.682	0.9617	0.3625	35.85%	0.4928	22.00%
601.20	Aflatoxin B1, LC (ppb)	10	9	2.951	1.291	2.759	0.9883	0.4118	35.82%	0.2450	22.00%
601.24	Aflatoxin B1, Vicam Aflatest, LC-FI (ppb)	4	4	3.414	2.018	3.414	1.216	0.6080	35.62%	0.3325	22.00%
601.16	Aflatoxin B1, RANDOX Biochip Array (ppb)	2	2	3.253	2.196						
601.91	Aflatoxin B1, Romer AgraQuant Afl B1 (ppb)	1	1	7.435							
601.98	Aflatoxin B1, Other Rapid Test Kit (ppb)	1	1	4.100							
601.99	Aflatoxin B1, Miscellaneous (ppb)	1	1	4.000							
602.20	Aflatoxin B2, LC (ppb)	8	7	0.2414	0.1010	0.2414	0.0924	0.0437	38.27%	0.0840	22.00%
602.23	Aflatoxin B2, LC-MS/MS (ppb)	14	1								
602.24	Aflatoxin B2, Vicam Aflatest, LC-FI (ppb)	3	1								
603.16	Aflatoxin G1, RANDOX Biochip Array (ppb)	1	1	1.140							
603.20	Aflatoxin G1, LC (ppb)	4	1								
603.23	Aflatoxin G1, LC-MS/MS (ppb)	12	1								
603.99	Aflatoxin G1, Miscellaneous (ppb)	1	1	1.500							
603.24	Aflatoxin G1, Vicam Aflatest, LC-FI (ppb)	2		0.0000							
604.20	Aflatoxin G2, LC (ppb)	4	1								

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604.23	Aflatoxin G2, LC-MS/MS (ppb)	12	1								
604.24	Aflatoxin G2, Vicam Aflatest, LC-FI (ppb)	2		0.0000							
610.23	Deoxynivalenol, LC-MS/MS (ppb)	19	19	2,008	359.0	2,008	601.8	172.6	29.96%	196.3	14.40%
610.01	Deoxynivalenol, Neogen Veratox for DON (ppb)	11	11	2,400	867.2	2,568	764.4	288.1	29.77%	377.1	13.88%
610.07	Deoxynivalenol, r-Biopharm Ridascreen FAST DON (ppb)	4	4	1,966	1,336	1,966	589.4	294.7	29.98%	108.0	14.45%
610.16	Deoxynivalenol, RANDOX Biochip Array (ppb)	3	3	2,124	755.9	2,124	635.5	366.9	29.92%	246.3	14.28%
610.20	Deoxynivalenol, LC (ppb)	4	3	2,196	123.3	2,196	656.3	464.1	29.89%		14.21%
610.99	Deoxynivalenol, Miscellaneous (ppb)	3	3	2,124	350.3	2,124	635.4	366.8	29.92%	183.6	14.28%
610.05	Deoxynivalenol, Romer AgraQuant DON (ppb)	2	2	3,030	382.2						
610.08	Deoxynivalenol, r-Biopharm Ridascreen FAST DON SC (ppb)	2	2	2,917	314.0						
610.09	Deoxynivalenol, Vicam DON-V (ppb)	2	2	1,787	385.0						
610.98	Deoxynivalenol, Other Rapid Test Kit (ppb)	2	2	1,142	1,610						
610.22	Deoxynivalenol, LC-MS (ppb)	1	1	280.5							
620.23	Total Fumonisin, LC-MS/MS (ppb)	7	7	2,002	439.4	2,002	600.1	283.5	29.97%	113.4	14.41%
620.01	Total Fumonisin, Neogen Veratox Fumonisin (ppb)	6	6	1,764	875.7	2,024	606.3	309.4	29.96%	224.2	14.39%
620.09	Total Fumonisin, r-Biopharm Ridascreen FAST FUM (ppb)	5	5	2,036	516.5	2,036	609.7	272.7	29.95%	61.00	14.37%
620.11	Total Fumonisin, Vicam Fumonitest (ppb)	3	3	480.8	829.8	480.8	149.8	105.9	31.15%	4.833	17.86%
620.07	Total Fumonisin, Romer AgraQuant Total Fumonisin (ppb)	2	2	3,758	2,853						
620.98	Total Fumonisin, Other Rapid Test Kit (ppb)	2	2	1,326	1,872						
620.99	Total Fumonisin, Miscellaneous (ppb)	2	2	1,229	970.9						
620.02	Total Fumonisin, Neogen Veratox Fumonisin 5/10 (ppb)	1	1	2,350							
620.16	Total Fumonisin, RANDOX Biochip Array (ppb)	2	1	384.3							
620.22	Total Fumonisin, LC-MS (ppb)	1	1	2,396							
621.23	Fumonsin B1, LC-MS/MS (ppb)	15	14	1,610	340.4	1,610	485.3	162.1	30.14%	149.3	14.89%
621.21	Fumonsin B1, LC-FI OPA der. (ppb)	2	2	1,321	111.7						
621.22	Fumonsin B1, LC-MS (ppb)	1	1	2,022							
622.23	Fumonisin B2, LC-MS/MS (ppb)	14	14	436.2	106.9	436.7	136.4	45.56	31.23%	32.66	18.12%
622.21	Fumonisin B2, LC-FI OPA der. (ppb)	2	2	248.8	72.48						
622.22	Fumonisin B2, LC-MS (ppb)	1	1	374.5							
623.23	Fumonisin B3, LC-MS/MS (ppb)	8	8	179.6	46.14	174.8	55.95	24.73	32.01%	31.52	20.80%
630.20	Ochratoxin A, LC (ppb)	10	8	4.304	3.814	3.157	1.127	0.4980	35.69%	0.2133	22.00%
630.23	Ochratoxin A, LC-MS/MS (ppb)	13	8	4.016	2.141	4.016	1.424	0.6294	35.46%	0.4830	22.00%
630.05	Ochratoxin A, r-Biopharm Ridascreen FAST Och A (ppb)	4	3	3.292	0.7939	3.292	1.174	0.6777	35.65%	0.4273	22.00%
630.03	Ochratoxin A, Romer AgraQuant Ochratoxin (ppb)	2	2	6.498	4.381						
630.01	Ochratoxin A, Neogen Veratox Ochratoxin (ppb)	2	1	13.70							
630.06	Ochratoxin A, Vicam OchraTest (ppb)	2	1	3.290							
630.16	Ochratoxin A, RANDOX Biochip Array (ppb)	2	1	2.875							
630.98	Ochratoxin A, Other Rapid Test Kit (ppb)	1	1	5.800							
630.99	Ochratoxin A, Miscellaneous (ppb)	2	1	2.679							
640.23	T-2 Toxin, LC-MS/MS (ppb)	15	14	100.6	27.28	100.6	32.69	10.92	32.50%	7.079	22.00%

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
640.05	T-2 Toxin, r-Biopharm Ridascreen FAST T-2 (ppb)	3	3	215.3	188.7	215.3	68.54	39.57	31.83%	8.048	20.16%
640.03	T-2 Toxin, Romer AgraQuant T-2 (ppb)	2	2	131.5	35.54						
640.98	T-2 Toxin, Other Rapid Test Kit (ppb)	1	1	290.8							
641.23	HT-2 Toxin, LC-MS/MS (ppb)	11	11	142.7	29.98	144.0	46.34	17.46	32.18%	10.91	21.41%
642.21	T-2 Toxin + HT-2 Toxin, Neogen Veratox T-2 + HT-2 (ppb)	4	4	335.8	83.67	335.8	105.6	52.81	31.45%	17.35	18.85%
642.04	T-2 Toxin + HT-2 Toxin, LC-MS (ppb)	3	3	252.9	71.96	252.9	80.17	46.29	31.70%	2.627	19.67%
642.16	T-2 Toxin + HT-2 Toxin, RANDOX Biochip Array (ppb)	3	3	171.6	58.02	171.6	54.96	31.73	32.03%	22.92	20.86%
642.98	T-2 Toxin + HT-2 Toxin, Other Rapid Test Kit (ppb)	3	3	390.3	13.27	390.3	122.3	70.58	31.32%	72.53	18.43%
642.99	T-2 Toxin + HT-2 Toxin, Miscellaneous Technique (ppb)	2	2	225.6	62.29						
650.24	Zearalenone, LC-MS/MS (ppb)	15	14	316.8	106.6	321.3	101.2	33.80	31.49%	25.47	18.98%
650.20	Zearalenone, LC (ppb)	6	6	353.9	62.38	353.9	111.2	56.73	31.41%	19.51	18.70%
650.01	Zearalenone, Neogen Veratox Zearalenone (ppb)	4	4	321.5	42.18	321.5	101.3	50.63	31.49%	16.06	18.98%
650.07	Zearalenone, r-Biopharm Ridascreen FAST ZON SC (ppb)	3	3	403.1	121.2	403.1	126.2	89.21	31.30%	37.51	18.34%
650.16	Zearalenone, RANDOX Biochip Array (ppb)	3	3	399.9	113.5	399.9	125.2	72.28	31.30%	15.73	18.36%
650.04	Zearalenone, Romer AgraQuant ZON (ppb)	2	2	639.8	204.2						
650.06	Zearalenone, r-Biopharm Ridascreen FAST ZON (ppb)	2	2	227.6	110.9						
650.21	Zearalenone, LC-FI, ISO (ppb)	2	2	339.3	33.15						
650.23	Zearalenone, LC-MS (ppb)	2	2	277.0	162.6						
650.98	Zearalenone, Other Rapid Test Kit (ppb)	2	2	568.6	279.6						
650.99	Zearalenone, Miscellaneous (ppb)	2	2	254.8	162.3						
650.05	Zearalenone, r-Biopharm Ridascreen Zearalenon (ppb)	1	1	165.5							

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
Sheep Feed
Test Material Code # 202363

Method Precision Report

Methods Reported: 21
Labs Reporting: 64
Issue Date : 08/31/2023

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 %rsd	Reproducibility %RSD	sR/sr
600.01	Total Aflatoxin, Neogen Veratox Aflatoxin (ppb)	10	8	4.457	1.891	1.390	0.3945	1.445	34.68%	9.84%	36.05%	3.663
600.14	Total Aflatoxin, Vicam Aflatest (ppb)	6	5	6.221	8.297	2.016	0.2110	2.027	69.15%	7.24%	69.53%	9.605
600.20	Total Aflatoxin, LC (ppb)	9	7	5.713	7.620	1.189	0.1774	1.202	39.01%	5.82%	39.44%	6.777
600.24	Total Aflatoxin, LC-MS/MS (ppb)	8	7	3.076	0.7725	0.7109	0.4277	0.8296	23.11%	13.90%	26.97%	1.940
601.20	Aflatoxin B1, LC (ppb)	10	8	2.951	1.291	0.6837	0.1740	0.7055	26.51%	6.75%	27.35%	4.055
601.23	Aflatoxin B1, LC-MS/MS (ppb)	17	11	2.727	0.8351	0.7925	0.3724	0.8756	29.06%	13.65%	32.11%	2.352
602.20	Aflatoxin B2, LC (ppb)	8	7	0.2414	0.1010	0.0903	0.0639	0.1106	37.40%	26.48%	45.83%	1.731
610.01	Deoxynivalenol, Neogen Veratox for DON (ppb)	11	10	2,400	867.2	277.6	335.2	435.3	10.52%	12.70%	16.49%	1.298
610.23	Deoxynivalenol, LC-MS/MS (ppb)	19	19	2,008	359.0	330.6	198.1	385.4	16.46%	9.87%	19.19%	1.945
620.01	Total Fumonisin, Neogen Veratox Fumonisin (ppb)	6	5	1,764	875.7	103.5	186.1	213.0	4.89%	8.80%	10.06%	1.144
620.09	Total Fumonisin, r-Biopharm Ridascreen FAST FUM (ppb)	5	5	2,036	516.5	515.7	40.06	517.2	25.33%	1.97%	25.41%	12.91
620.23	Total Fumonisin, LC-MS/MS (ppb)	7	7	2,002	439.4	435.1	85.92	443.5	21.73%	4.29%	22.15%	5.162
621.23	Fumonsin B1, LC-MS/MS (ppb)	15	13	1,610	340.4	306.3	112.5	326.3	18.55%	6.82%	19.76%	2.899
622.23	Fumonisin B2, LC-MS/MS (ppb)	14	13	436.2	106.9	105.2	24.52	108.0	24.58%	5.73%	25.24%	4.406
623.23	Fumonisin B3, LC-MS/MS (ppb)	8	8	179.6	46.14	42.83	24.28	49.23	23.84%	13.51%	27.40%	2.028
630.20	Ochratoxin A, LC (ppb)	10	7	4.304	3.814	0.5870	0.2017	0.6207	19.76%	6.79%	20.90%	3.077
630.23	Ochratoxin A, LC-MS/MS (ppb)	13	8	4.016	2.141	2.125	0.3760	2.158	52.90%	9.36%	53.73%	5.738
640.23	T-2 Toxin, LC-MS/MS (ppb)	15	13	100.6	27.28	27.78	7.491	28.78	27.45%	7.40%	28.43%	3.841
641.23	HT-2 Toxin, LC-MS/MS (ppb)	11	11	142.7	29.98	27.83	15.76	31.98	19.50%	11.05%	22.41%	2.029
650.20	Zearalenone, LC (ppb)	6	6	353.9	62.38	61.46	15.06	63.28	17.37%	4.25%	17.88%	4.203
650.24	Zearalenone, LC-MS/MS (ppb)	15	13	316.8	106.6	109.0	17.42	110.4	34.87%	5.57%	35.32%	6.337

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