



**AAFCO**  
Proficiency Testing Program



**Mycotoxin Contaminants Scheme**

**Puppy Feed**

**Test Material Code # 202063**

**Method Summary Report**

(Precision Report Follows)

**# Labs Reporting: 59**

**# Methods Reported: 85**

**Issue Date : 08/31/2020**

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)	10	<b>10</b>	18.58	4.325	<b>18.58</b>	6.321	2.499	34.02%	1.260	22.00%
600.20	Total Aflatoxin, LC (ppb)	8	<b>8</b>	21.13	3.102	<b>21.13</b>	7.162	3.165	33.90%	1.063	22.00%
600.24	Total Aflatoxin, LC-MS/MS (ppb)	7	<b>7</b>	24.57	9.711	<b>24.57</b>	8.294	3.919	33.76%	2.119	22.00%
600.98	Total Aflatoxin, Other Rapid Test Kit (ppb)	5	5	22.30	4.434	22.30	7.548	3.375	33.85%	1.140	22.00%
600.12	Total Aflatoxin, r-Biopharm Ridascreen FAST Afl (ppb)	5	4	18.27	4.701	18.27	6.219	3.109	34.04%	0.5005	22.00%
600.13	Total Aflatoxin, r-Biopharm Ridascreen FAST Afl SC (ppb)	3	3	16.56	8.280	16.56	5.651	3.262	34.13%	0.3503	22.00%
600.14	Total Aflatoxin, Vicam Aflatest (ppb)	3	3	20.50	3.000	20.50	6.955	4.016	33.93%	3.000	22.00%
600.22	Total Aflatoxin, Vicam Aflatest, LC-FI (ppb)	2	2	25.03	7.117						
601.23	Aflatoxin B1, LC-MS/MS (ppb)	16	<b>16</b>	24.90	8.414	<b>24.05</b>	8.124	2.539	33.78%	1.753	22.00%
601.20	Aflatoxin B1, LC (ppb)	5	5	20.13	2.465	20.13	6.831	3.055	33.95%	1.470	22.00%
601.98	Aflatoxin B1, Other Rapid Test Kit (ppb)	5	5	24.33	2.137	24.33	8.217	3.675	33.77%	0.6120	22.00%
601.24	Aflatoxin B1, Vicam Aflatest, LC-FI (ppb)	3	3	21.47	5.708	21.47	7.274	4.200	33.89%	1.590	22.00%
601.21	Aflatoxin B1, LC-PCD FI (ppb)	2	2	22.42	0.4490						
602.23	Aflatoxin B2, LC-MS/MS (ppb)	13	<b>9</b>	1.987	0.6562	<b>1.973</b>	0.7132	0.2972	36.15%	0.1583	22.00%
602.20	Aflatoxin B2, LC (ppb)	4	4	1.714	0.6265	1.714	0.6220	0.3110	36.29%	0.0953	22.00%
602.24	Aflatoxin B2, Vicam Aflatest, LC-FI (ppb)	3	3	1.523	0.4309	1.523	0.5546	0.3202	36.41%	0.1067	22.00%
602.21	Aflatoxin B2, LC-PCD FI (ppb)	2	2	1.453	0.2935						
603.23	Aflatoxin G1, LC-MS/MS (ppb)	11	2	2.364	2.721	2.364	0.8503	0.7516		0.2897	22.00%
603.21	Aflatoxin G1, LC-PCD FI (ppb)	1	1	0.4700							
603.20	Aflatoxin G1, LC (ppb)	2		0.0000							
603.24	Aflatoxin G1, Vicam Aflatest, LC-FI (ppb)	3									
604.21	Aflatoxin G2, LC-PCD FI (ppb)	1	1	0.0300							
604.23	Aflatoxin G2, LC-MS/MS (ppb)	11	1								
604.20	Aflatoxin G2, LC (ppb)	2		0.0000							
604.24	Aflatoxin G2, Vicam Aflatest, LC-FI (ppb)	3									
610.23	Deoxynivalenol, LC-MS/MS (ppb)	18	<b>18</b>	1,873	499.7	<b>1,883</b>	565.2	166.5	30.02%	111.3	14.54%
610.01	Deoxynivalenol, Neogen Veratox for DON (ppb)	10	<b>8</b>	1,799	249.8	<b>1,828</b>	549.3	242.7	30.04%	141.3	14.61%
610.98	Deoxynivalenol, Other Rapid Test Kit (ppb)	7	<b>7</b>	2,020	216.5	<b>2,027</b>	607.2	286.9	29.96%	82.57	14.38%
610.07	Deoxynivalenol, r-Biopharm Ridascreen FAST DON (ppb)	6	<b>6</b>	2,032	361.2	<b>2,032</b>	608.7	310.6	29.96%	159.3	14.38%

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
610.20	Deoxynivalenol, LC (ppb)	6	5	1,901	356.4	1,901	570.4	318.9	30.01%	317.9	14.52%
610.08	Deoxynivalenol, r-Biopharm Ridascreen FAST DON SC (ppb)	2	2	1,990	460.0						
610.99	Deoxynivalenol, Miscellaneous (ppb)	2	2	1,760	339.4						
610.03	Deoxynivalenol, Charm ROSA DON Quant (ppb)	1	1	1,000							
610.06	Deoxynivalenol, r-Biopharm Ridascreen DON (ppb)	1	1	1,887							
610.21	Deoxynivalenol, LC-FI (ppb)	1	1	1,923							
610.22	Deoxynivalenol, LC-MS (ppb)	1	1	1,408							
610.25	Deoxynivalenol, GC-MS (ppb)	1	1	1,197							
620.09	Total Fumonisin, r-Biopharm Ridascreen FAST FUM (ppb)	7	7	973.5	253.0	<b>973.5</b>	297.5	140.6	30.56%	64.14	16.06%
620.23	Total Fumonisin, LC-MS/MS (ppb)	7	7	1,288	541.6	<b>1,288</b>	390.6	184.5	30.33%	58.20	15.40%
620.01	Total Fumonisin, Neogen Veratox Fumonisin (ppb)	5	3	598.3	325.2	598.3	185.3	107.0	30.96%	203.3	17.28%
620.02	Total Fumonisin, Neogen Veratox Fumonisin 5/10 (ppb)	3	3	713.3	272.1	713.3	219.8	126.9	30.82%	40.00	16.83%
620.11	Total Fumonisin, Vicam Fumonitest (ppb)	4	3	1,767	1,850	1,767	531.2	375.6	30.07%	133.3	14.68%
620.98	Total Fumonisin, Other Rapid Test Kit (ppb)	3	3	1,265	308.6	1,265	383.8	221.6	30.34%	145.3	15.44%
620.05	Total Fumonisin, Charm ROSA FUMQ MeOH (ppb)	1	1	950.0							
620.07	Total Fumonisin, Romer AgraQuant Total Fumonisin (ppb)	1	1	1,015							
620.20	Total Fumonisin, LC (ppb)	1	1	1,400							
621.23	Fumonsin B1, LC-MS/MS (ppb)	15	15	923.9	334.0	<b>920.0</b>	281.6	90.88	30.61%	94.53	16.20%
621.20	Fumonsin B1, LC (ppb)	3	2	1,147	574.1	1,147	348.8			61.80	15.67%
621.21	Fumonsin B1, LC-FI OPA der. (ppb)	2	2	787.5	265.2						
621.22	Fumonsin B1, LC-MS (ppb)	1	1	491.5							
622.23	Fumonisin B2, LC-MS/MS (ppb)	15	15	336.8	103.7	<b>343.6</b>	108.0	34.86	31.43%	57.06	18.79%
622.21	Fumonisin B2, LC-FI OPA der. (ppb)	2	2	243.5	61.52						
622.20	Fumonisin B2, LC (ppb)	2	1	323.7							
622.22	Fumonisin B2, LC-MS (ppb)	1	1	186.0							
623.23	Fumonisin B3, LC-MS/MS (ppb)	7	6	81.10	46.17	<b>82.78</b>	27.04	13.80	32.67%	9.998	22.00%
623.22	Fumonisin B3, LC-MS (ppb)	1	1	59.05							
630.23	Ochratoxin A, LC-MS/MS (ppb)	16	16	51.95	15.26	<b>53.01</b>	17.53	5.478	33.07%	7.568	22.00%
630.20	Ochratoxin A, LC (ppb)	8	8	34.13	14.22	<b>34.13</b>	11.42	5.047	33.46%	1.583	22.00%
630.98	Ochratoxin A, Other Rapid Test Kit (ppb)	5	5	39.60	7.358	39.60	13.20	5.902	33.33%	3.296	22.00%
630.04	Ochratoxin A, r-Biopharm Ridascreen Ochratoxin A (ppb)	3	3	29.30	4.982	29.30	9.846	5.685	33.60%	2.403	22.00%
630.05	Ochratoxin A, r-Biopharm Ridascreen FAST Och A (ppb)	3	3	33.45	12.53	33.45	11.20	6.466	33.48%	4.240	22.00%
630.01	Ochratoxin A, Neogen Veratox Ochratoxin (ppb)	2	2	9.225	0.7425						
630.03	Ochratoxin A, Romer AgraQuant Ochratoxin (ppb)	1	1	36.66							
630.21	Ochratoxin A, LC-PCD FI (ppb)	1	1	60.00							
640.23	T-2 Toxin, LC-MS/MS (ppb)	15	14	57.87	17.73	<b>54.48</b>	18.00	6.014	33.04%	5.341	22.00%
640.98	T-2 Toxin, Other Rapid Test Kit (ppb)	4	3	67.75	20.17	67.75	22.25	12.85	32.85%	1.300	22.00%
640.03	T-2 Toxin, Romer AgraQuant T-2 (ppb)	2	2	49.78	9.581						
640.05	T-2 Toxin, r-Biopharm Ridascreen FAST T-2 (ppb)	2	2	83.37	18.90						
640.04	T-2 Toxin, r-Biopharm Ridascreen T-2 (ppb)	1	1	62.67							

Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	Revised Horwitz SD (σffp)	Uncertainty (U) - Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
640.21	T-2 Toxin, LC-PCD FI (ppb)	1	1	39.00							
641.23	HT-2 Toxin, LC-MS/MS (ppb)	9	<b>9</b>	46.51	19.46	<b>45.76</b>	15.19	6.330	33.20%	6.056	22.00%
641.21	HT-2 Toxin, LC post-col photochem der. FI (ppb)	1	1	30.00							
642.98	T-2 Toxin + HT-2 Toxin, Other Rapid Test Kit (ppb)	5	5	96.55	26.17	96.55	31.41	14.05	32.53%	14.46	22.00%
642.21	T-2 Toxin + HT-2 Toxin, Neogen Veratox T-2 + HT-2 (ppb)	4	3	99.51	22.14	99.51	32.35	18.68	32.51%	3.317	22.00%
642.99	T-2 Toxin + HT-2 Toxin, Miscellaneous Technique (ppb)	2	2	98.74	21.52						
650.24	Zearalenone, LC-MS/MS (ppb)	13	<b>13</b>	4,990	1,449	<b>5,028</b>	1,469	509.5	29.23%	422.5	12.55%
650.20	Zearalenone, LC (ppb)	7	<b>7</b>	3,397	1,974	<b>3,397</b>	1,004	474.1	29.54%	233.9	13.31%
650.98	Zearalenone, Other Rapid Test Kit (ppb)	6	<b>6</b>	4,321	1,602	<b>4,321</b>	1,268	647.2	29.35%	76.86	12.83%
650.01	Zearalenone, Neogen Veratox Zearalenone (ppb)	5	5	2,803	1,245	2,803	832.4	372.3	29.70%	251.6	13.70%
650.06	Zearalenone, r-Biopharm Ridascreen FAST ZON (ppb)	4	3	1,761	603.5	1,761	529.5	305.7	30.07%	30.00	14.69%
650.07	Zearalenone, r-Biopharm Ridascreen FAST ZON SC (ppb)	3	3	2,518	1,504	2,518	749.9	433.0	29.78%	74.26	13.92%
650.23	Zearalenone, LC-MS (ppb)	3	3	5,067	185.9	5,067	1,481	854.9	29.22%	328.3	12.53%
650.99	Zearalenone, Miscellaneous (ppb)	2	2	1,469	1,695						
650.02	Zearalenone, Charm ROSA Zearalenone Quant - MeOH (ppb)	1	1	400.0							
650.21	Zearalenone, LC-FI, ISO (ppb)	1	1	4,660							

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**  
**Puppy Feed**  
**Test Material Code # 202063**

**Method Precision Report**

**# Methods Reported: 10**  
**# Labs Reporting: 59**  
**Issue Date : 08/31/2020**

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 %rds	Reproducibility %RSD	sR/sr
600.01	Total Aflatoxin, Neogen Veratox Aflatoxin (ppb)	10	10	18.58	4.325	4.223	1.321	4.425	22.73%	7.11%	23.81%	3.349
601.23	Aflatoxin B1, LC-MS/MS (ppb)	16	15	24.90	8.414	5.851	1.528	6.047	25.04%	6.54%	25.88%	3.957
602.23	Aflatoxin B2, LC-MS/MS (ppb)	13	9	1.987	0.6562	0.6498	0.1292	0.6625	32.70%	6.50%	33.34%	5.126
610.23	Deoxynivalenol, LC-MS/MS (ppb)	18	17	1,873	499.7	511.3	85.95	518.5	27.35%	4.60%	27.74%	6.032
621.23	Fumonisin B1, LC-MS/MS (ppb)	15	13	923.9	334.0	319.2	43.38	322.1	34.39%	4.67%	34.70%	7.426
622.23	Fumonisin B2, LC-MS/MS (ppb)	15	13	336.8	103.7	81.39	24.43	84.98	23.20%	6.97%	24.22%	3.478
630.23	Ochratoxin A, LC-MS/MS (ppb)	16	14	51.95	15.26	10.58	4.949	11.68	19.90%	9.31%	21.97%	2.361
640.23	T-2 Toxin, LC-MS/MS (ppb)	15	13	57.87	17.73	16.88	3.683	17.28	28.30%	6.17%	28.96%	4.692
641.23	HT-2 Toxin, LC-MS/MS (ppb)	9	8	46.51	19.46	18.37	3.641	18.73	42.17%	8.35%	42.99%	5.145
650.24	Zearalenone, LC-MS/MS (ppb)	13	12	4,990	1,449	1,493	308.1	1,525	29.73%	6.13%	30.36%	4.949

Notes: Precision Calculations provided for methods with 8 or more labs contributing to calculations.