

# AAFCO Check Sample Program

Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201228

Beef Cattle Pellet, Medicated



# AAFCO

Association of American Feed Control Officials

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ffp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sI	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
000.02	1		0.40000														
000.99	1		0.00500														
001.00	11	7	9.9798	0.78499	9.9798	0.89018	0.23791	8.92%	0.78391	0.05826	0.78607	7.85%	0.58%	7.88%	13.492	0.05500	2.83%
001.03	22	22	9.5547	1.4505	9.4244	0.46545	0.07017	4.94%	0.73053	0.02515	0.73097	7.65%	0.26%	7.65%	29.067	0.02808	2.85%
001.05	1		9.2600														
001.07	35	33	9.4899	0.57541	9.5553	0.48599	0.05982	5.09%	0.46159	0.11600	0.47594	4.86%	1.22%	5.02%	4.1031	0.11196	2.85%
001.08	4	4	9.5988	0.20002	9.5988	0.20002	0.07072	2.08%	0.19900	0.02850	0.20103	2.07%	0.30%	2.09%	7.0526	0.03250	2.85%
001.99	14	12	9.3600	0.88135	9.4411	0.79190	0.16165	8.39%	0.87954	0.07985	0.88315	9.40%	0.85%	9.44%	11.060	0.09208	2.85%
002.00	5	5	17.144	4.1935	17.144	4.1935	1.3261	24.46%	0.17323	0.10612	0.20315	1.01%	0.62%	1.18%	1.9143	0.17520	2.61%
002.01	11	11	15.145	0.27241	15.162	0.27843	0.05936	1.84%	0.26003	0.11478	0.28424	1.72%	0.76%	1.88%	2.4763	0.11327	2.66%
002.02	7	6	15.319	0.29080	15.266	0.20866	0.06024	1.37%	0.28681	0.06795	0.29475	1.87%	0.44%	1.92%	4.3379	0.08012	2.65%
002.03	1		16.235														
002.04	7	6	15.233	0.55848	15.311	0.43449	0.12543	2.84%	0.55789	0.03617	0.55906	3.66%	0.24%	3.67%	15.456	0.04167	2.65%
002.05	50	49	15.283	0.26892	15.254	0.19982	0.02018	1.31%	0.16417	0.07249	0.17946	1.07%	0.47%	1.17%	2.4757	0.07224	2.65%
002.06	220	134	15.432	0.32266	15.439	0.27928	0.01706	1.81%	0.28748	0.14724	0.32299	1.86%	0.95%	2.09%	2.1936	0.13635	2.65%
002.08	4	4	15.334	0.29896	15.334	0.29896	0.10570	1.95%	0.29685	0.05014	0.30106	1.94%	0.33%	1.96%	6.0039	0.05348	2.65%
002.11	6	6	15.332	1.8893	15.114	0.98938	0.28561	6.55%	1.8865	0.14637	1.8921	12.30%	0.95%	12.34%	12.927	0.15167	2.66%
002.99	3	3	15.372	0.15053	15.372	0.15053	0.06145	0.98%	0.09443	0.16578	0.19079	0.61%	1.08%	1.24%	1.1508	0.21000	2.65%
003.00	21	20	4.2247	0.53749	4.3358	0.34075	0.05388	7.86%	0.36506	0.13068	0.38775	8.64%	3.09%	9.18%	2.9672	0.11851	3.21%
003.01	2	2	3.2399	0.04257													
003.06	18	17	3.7741	0.26501	3.7484	0.19843	0.03403	5.29%	0.25051	0.12228	0.27876	6.64%	3.24%	7.39%	2.2797	0.11059	3.28%
003.07	1		4.0050														
003.09	22	22	4.1286	0.21530	4.1609	0.15516	0.02339	3.73%	0.14437	0.08184	0.16596	3.50%	1.98%	4.02%	2.0277	0.08226	3.23%
003.10	41	39	3.4624	0.36744	3.5452	0.17700	0.02004	4.99%	0.26683	0.09586	0.28352	7.71%	2.77%	8.19%	2.9577	0.09300	3.31%
003.11	6	6	4.0080	0.32985	4.0080	0.37405	0.10798	9.33%	0.32732	0.05765	0.33236	8.17%	1.44%	8.29%	5.7650	0.07033	3.25%
003.12	21	20	3.7655	0.27590	3.7136	0.15555	0.02459	4.19%	0.17189	0.04052	0.17660	4.56%	1.08%	4.69%	4.3581	0.03400	3.28%
003.13	8	7	3.8474	0.28455	3.7369	0.08430	0.02253	2.26%	0.28352	0.03428	0.28558	7.37%	0.89%	7.42%	8.3315	0.04329	3.28%

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003.14	32	31	3.6233	0.55554	3.6047	0.47775	0.06067	13.25%	0.54680	0.13883	0.56415	15.09%	3.83%	15.57%	4.0637	0.13745	3.30%
003.99	10	7	3.2407	1.4268	3.7298	0.46774	0.12501	12.54%	0.53310	0.05172	0.53561	16.45%	1.60%	16.53%	10.356	0.04429	3.28%
004.00	25	24	6.6553	0.40892	6.6479	0.37540	0.05418	5.65%	0.40503	0.07963	0.41278	6.09%	1.20%	6.20%	5.1835	0.09442	3.01%
004.01	2	2	7.8950	0.06364													
004.03	5	5	6.6820	0.55485	6.6820	0.55485	0.17546	8.30%	0.55066	0.09623	0.55901	8.24%	1.44%	8.37%	5.8091	0.10000	3.01%
004.06	48	46	6.9461	0.51122	6.9120	0.48692	0.05076	7.04%	0.45587	0.07756	0.46242	6.56%	1.12%	6.66%	5.9620	0.07707	2.99%
004.07	60	60	6.3682	0.47702	6.3403	0.45352	0.04140	7.15%	0.39984	0.13500	0.42201	6.28%	2.12%	6.63%	3.1259	0.14049	3.03%
004.11	6	6	6.5398	0.81015	6.4069	0.65569	0.18928	10.23%	0.80524	0.12591	0.81503	12.31%	1.93%	12.46%	6.4730	0.15367	3.02%
004.99	4	4	6.4925	0.28371	6.4925	0.28371	0.10031	4.37%	0.25830	0.16598	0.30703	3.98%	2.56%	4.73%	1.8498	0.20500	3.02%
005.00	189	113	6.6778	0.08335	6.6777	0.07380	0.00491	1.11%	0.06432	0.05058	0.08183	0.96%	0.76%	1.23%	1.6177	0.05086	3.01%
005.01	1		6.6750														
005.02	1		6.7050														
005.03	1		6.6150														
005.05	30	29	6.7066	0.26426	6.6926	0.06318	0.00830	0.94%	0.14098	0.03529	0.14532	2.10%	0.53%	2.17%	4.1184	0.03619	3.00%
005.11	3	3	6.1663	0.27028	6.1663	0.27028	0.11034	4.38%	0.25612	0.12208	0.28373	4.15%	1.98%	4.60%	2.3242	0.14533	3.04%
005.99	9	9	6.6293	0.11154	6.6452	0.08515	0.02007	1.28%	0.08838	0.09622	0.13065	1.33%	1.45%	1.97%	1.3578	0.11200	3.01%
006.00	2	2	3.1325	0.09546													
006.99	2	2	4.7550	0.93338													
008.02	14	13	8.4773	1.9879	9.0846	0.33979	0.06664	3.74%	0.61026	0.12657	0.62325	7.20%	1.49%	7.35%	4.9240	0.13615	2.87%
008.05	2	2	9.6400	0.29698													
008.08	30	29	8.6146	0.46713	8.5835	0.44600	0.05856	5.20%	0.43789	0.23004	0.49464	5.08%	2.67%	5.74%	2.1502	0.26959	2.89%
008.99	2	2	8.9725	1.0925													
009.04	1		26.220														
009.07	12	11	25.629	1.3159	25.596	0.68659	0.14638	2.68%	1.2621	0.52693	1.3677	4.92%	2.06%	5.34%	2.5955	0.54091	2.46%
009.09	24	24	23.408	1.0695	23.325	0.98361	0.14197	4.22%	1.0365	0.37315	1.1016	4.43%	1.59%	4.71%	2.9522	0.39833	2.49%
009.99	1		23.370														
010.03	3	3	7.0180	0.26633	7.0180	0.26633	0.10873	3.80%	0.23539	0.17622	0.29404	3.35%	2.51%	4.19%	1.6686	0.22343	2.98%
010.11	4	4	10.635	0.76961	10.635	0.76961	0.27210	7.24%	0.74636	0.26551	0.79218	7.02%	2.50%	7.45%	2.9836	0.33100	2.80%
010.99	12	12	9.7196	0.41267	9.7000	0.42739	0.08724	4.41%	0.41167	0.04049	0.41366	4.24%	0.42%	4.26%	10.215	0.04261	2.84%
011.01	156	76	10.635	0.51412	10.640	0.46302	0.03756	4.35%	0.47688	0.10006	0.48726	4.48%	0.94%	4.58%	4.8695	0.10379	2.80%
011.02	4	3	10.345	0.30915	10.345	0.30915	0.12621	2.99%	0.26319	0.22938	0.34912	2.54%	2.22%	3.37%	1.5220	0.27667	2.81%
011.99	2	2	10.483	0.11667													
012.00	9	8	31.593	2.4717	32.205	0.79166	0.19792	2.46%	0.76419	0.35689	0.84342	2.42%	1.13%	2.67%	2.3633	0.28500	2.37%
012.01	4	4	29.879	0.93093	29.879	0.93093	0.32914	3.12%	0.74690	0.78585	1.0842	2.50%	2.63%	3.63%	1.3796	0.67250	2.40%
012.03	4	4	29.953	1.1302	29.953	1.1302	0.39957	3.77%	1.1009	0.36107	1.1586	3.68%	1.21%	3.87%	3.2088	0.46000	2.40%
012.04	7	7	31.614	2.3185	30.710	0.40473	0.10817	1.32%	2.2987	0.42697	2.3381	7.27%	1.35%	7.40%	5.4760	0.45714	2.39%
012.11	3	3	33.485	2.7716	33.485	2.7716	1.1315	8.28%	2.7699	0.13812	2.7733	8.27%	0.41%	8.28%	20.079	0.16433	2.36%
013.00	16	15	4.5753	0.57519	4.5293	0.53438	0.09756	11.80%	0.56948	0.11435	0.58085	12.45%	2.50%	12.70%	5.0797	0.12503	3.19%

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013.02	99	25	4.8979	0.77242	5.0025	0.47598	0.06731	9.51%	0.41156	0.12840	0.43112	8.40%	2.62%	8.80%	3.3577	0.13412	3.14%
013.10	12	11	4.2209	0.42663	4.2204	0.48273	0.10292	11.44%	0.42389	0.06831	0.42936	10.04%	1.62%	10.17%	6.2857	0.08336	3.22%
013.13	3	3	4.9333	1.2513	4.9333	1.2513	0.51085	25.36%	1.2501	0.07703	1.2525	25.34%	1.56%	25.39%	16.261	0.08667	3.15%
015.41	4	4	59.346	16.122	59.346	16.122	5.7001	27.17%	15.902	3.7578	16.340	26.80%	6.33%	27.53%	4.3483	4.0241	8.65%
015.42	3	3	61.100	9.3972	61.100	9.3972	3.8364	15.38%	9.0546	3.5557	9.7278	14.82%	5.82%	15.92%	2.7358	4.8000	8.61%
015.43	3	3	72.203	37.373	72.203	37.373	15.258	51.76%	37.367	0.97830	37.380	51.75%	1.35%	51.77%	38.209	1.1067	8.40%
015.52	1		85.700														
015.53	1		88.200														
017.41	2	2	3.6000	0.45255													
017.42	5	5	15.353	27.704	15.353	27.704	8.7606	180.44%	2.1195	0.36914	2.1514	13.80%	2.40%	14.01%	5.8281	1.4420	10.60%
017.43	3	3	4.3550	0.42435	4.3550	0.42435	0.17324	9.74%	0.42375	0.03189	0.42495	9.73%	0.73%	9.76%	13.328	0.03667	12.82%
019.00	28	27	0.91952	0.20189	0.93742	0.06863	0.00934	7.32%	0.08441	0.01685	0.08608	9.18%	1.83%	9.36%	5.1097	0.01493	4.04%
019.02	1		0.97000														
019.03	4	4	0.93614	0.05969	0.93614	0.05969	0.02110	6.38%	0.05643	0.02751	0.06278	6.03%	2.94%	6.71%	2.2819	0.03228	4.04%
019.08	8	8	0.94402	0.05106	0.95223	0.04026	0.01007	4.23%	0.04546	0.03287	0.05610	4.82%	3.48%	5.94%	1.7067	0.03659	4.03%
019.31	25	24	0.92774	0.06285	0.94217	0.03498	0.00505	3.71%	0.04772	0.02958	0.05615	5.14%	3.19%	6.05%	1.8982	0.02846	4.04%
019.32	6	6	0.95835	0.02383	0.95510	0.02161	0.00624	2.26%	0.02303	0.00866	0.02461	2.40%	0.90%	2.57%	2.8400	0.00857	4.03%
019.33	3	3	0.97383	0.02177	0.97383	0.02177	0.00889	2.24%	0.02129	0.00644	0.02224	2.19%	0.66%	2.28%	3.4531	0.00900	4.02%
019.41	33	32	0.95578	0.04225	0.95418	0.04145	0.00518	4.34%	0.04032	0.01788	0.04411	4.22%	1.87%	4.61%	2.4669	0.01725	4.03%
019.42	19	17	0.97784	0.04614	0.97303	0.04257	0.00730	4.38%	0.04190	0.02733	0.05002	4.28%	2.80%	5.12%	1.8303	0.02681	4.02%
019.43	11	10	0.96910	0.06662	0.96652	0.07028	0.01571	7.27%	0.06130	0.03688	0.07154	6.33%	3.81%	7.38%	1.9398	0.03580	4.02%
019.44	1		0.97850														
019.52	1		0.92115														
019.53	2	2	0.98325	0.00460													
019.99	3	3	5.4420	8.0220	5.4420	8.0220	3.2750	147.41%	0.02399	0.03808	0.04501	0.44%	0.70%	0.83%	1.1819	0.13000	3.10%
021.41	3	3	1.8181	0.47817	1.8181	0.47817	0.19521	26.30%	0.47665	0.05381	0.47968	26.22%	2.96%	26.38%	8.9150	0.05817	14.62%
021.42	4	4	1.6209	0.61836	1.6209	0.61836	0.21862	38.15%	0.59825	0.22118	0.63783	36.91%	13.65%	39.35%	2.8837	0.25325	14.88%
021.43	3	3	2.7433	0.84286	2.7433	0.84286	0.34410	30.72%	0.84043	0.09037	0.84528	30.64%	3.29%	30.81%	9.3535	0.10667	13.74%
021.52	1		2.0705														
021.53	1		1.0900														
022.31	12	12	8.4139	1.4537	8.3668	1.5419	0.31473	18.43%	1.4405	0.27564	1.4667	17.12%	3.28%	17.43%	5.3210	0.26133	11.62%
022.32	2	2	6.1325	0.51972													
022.33	1		9.8300														
022.41	19	19	8.7549	1.2287	8.8318	0.80769	0.13102	9.15%	1.1532	0.59977	1.2998	13.17%	6.85%	14.85%	2.1672	0.58105	11.53%
022.42	15	14	9.4314	1.4962	9.0163	0.81135	0.15333	9.00%	1.3850	0.80055	1.5997	14.68%	8.49%	16.96%	1.9982	0.66143	11.49%
022.43	10	9	7.8400	3.1542	8.4208	1.2041	0.28382	14.30%	1.2139	0.19016	1.2287	15.48%	2.43%	15.67%	6.4611	0.15778	11.61%
022.44	1		8.7200														
022.52	1		7.4380														

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022.53	1		9.0600														
022.99	1		8.9052														
023.00	1		0.09690														
025.31	13	13	179.49	44.827	174.86	22.925	4.4960	13.11%	25.016	5.2982	25.571	13.94%	2.95%	14.25%	4.8263	5.8354	7.35%
025.32	3	3	177.89	31.244	177.89	31.244	12.755	17.56%	31.040	5.0436	31.447	17.45%	2.84%	17.68%	6.2349	5.6400	7.33%
025.33	1		183.11														
025.41	22	21	190.90	17.439	190.74	13.979	2.1570	7.33%	16.654	7.3142	18.189	8.72%	3.83%	9.53%	2.4869	6.1029	7.26%
025.42	14	14	204.72	26.707	201.20	22.866	4.3213	11.36%	25.701	10.265	27.676	12.55%	5.01%	13.52%	2.6960	9.9293	7.20%
025.43	10	9	207.79	36.336	202.42	27.067	6.3797	13.37%	36.065	6.2627	36.605	17.36%	3.01%	17.62%	5.8449	5.7822	7.19%
025.52	1		183.14														
025.99	1		186.84														
027.31	13	13	0.34244	0.03051	0.33940	0.02535	0.00497	7.47%	0.01978	0.00792	0.02131	5.78%	2.31%	6.22%	2.6920	0.00836	4.71%
027.32	5	5	0.33244	0.02203	0.33244	0.02203	0.00697	6.63%	0.02026	0.01225	0.02367	6.09%	3.68%	7.12%	1.9326	0.01400	4.72%
027.34	1		0.33050														
027.41	22	22	0.35085	0.02369	0.34961	0.01586	0.00239	4.54%	0.01523	0.00763	0.01703	4.34%	2.17%	4.85%	2.2330	0.00759	4.69%
027.42	15	15	0.34532	0.01842	0.34537	0.02038	0.00372	5.90%	0.01756	0.00786	0.01924	5.09%	2.28%	5.57%	2.4483	0.00901	4.69%
027.43	10	9	0.34767	0.03188	0.34440	0.03055	0.00720	8.87%	0.03164	0.00547	0.03211	9.10%	1.57%	9.24%	5.8739	0.00622	4.70%
027.44	1		0.33050														
027.52	1		0.31295														
027.53	1		0.33900														
028.31	10	10	79.236	13.444	79.243	3.5955	0.80398	4.54%	13.295	2.8147	13.590	16.78%	3.55%	17.15%	4.8282	2.8120	8.28%
028.32	2	2	71.940	14.227													
028.33	1		83.245														
028.41	21	19	79.887	2.9768	80.058	2.9382	0.47663	3.67%	2.8786	1.0722	3.0718	3.60%	1.34%	3.85%	2.8649	1.1997	8.27%
028.42	15	14	80.781	3.7145	80.915	3.9555	0.74752	4.89%	3.3992	2.1177	4.0050	4.21%	2.62%	4.96%	1.8911	1.9657	8.26%
028.43	10	9	112.96	100.22	81.780	9.2557	2.1816	11.32%	7.7763	0.49744	7.7922	6.88%	0.44%	6.90%	15.665	0.61000	8.24%
028.44	1		78.600														
028.52	1		71.174														
028.53	1		80.350														
028.99	1		77.418														
031.01	55	52	1.0307	1.6648	0.80215	0.03515	0.00345	4.38%	0.04851	0.01296	0.05021	4.71%	1.26%	4.87%	3.8746	0.01183	4.13%
031.02	3	3	0.53742	0.46550	0.53742	0.46550	0.19004	86.62%	0.46549	0.00425	0.46551	86.62%	0.79%	86.62%	109.51	0.00430	4.39%
031.03	3	3	0.80957	0.01786	0.80957	0.01786	0.00729	2.21%	0.01762	0.00412	0.01810	2.18%	0.51%	2.24%	4.3904	0.00380	4.13%
031.04	1		0.86500														
031.06	3	3	0.73433	0.03101	0.73433	0.03101	0.01266	4.22%	0.02846	0.01740	0.03336	3.88%	2.37%	4.54%	1.9173	0.02133	4.19%
031.41	27	26	0.82005	0.06948	0.81011	0.03605	0.00500	4.45%	0.03682	0.01759	0.04081	4.49%	2.15%	4.98%	2.3199	0.01540	4.13%
031.42	16	15	0.79937	0.03350	0.79925	0.03773	0.00689	4.72%	0.03079	0.01866	0.03600	3.85%	2.33%	4.50%	1.9297	0.02052	4.14%
031.43	9	8	0.81106	0.04445	0.81106	0.05041	0.01260	6.22%	0.04195	0.02080	0.04682	5.17%	2.57%	5.77%	2.2507	0.01688	4.13%

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
031.44	1		0.80600														
031.52	1		0.68580														
031.53	1		0.82650														
031.99	4	4	0.75513	0.07564	0.75513	0.07564	0.02674	10.02%	0.07208	0.03245	0.07905	9.55%	4.30%	10.47%	2.4358	0.02875	4.17%
032.02	5	5	0.91097	0.02641	0.91097	0.02641	0.00835	2.90%	0.01797	0.02738	0.03275	1.97%	3.01%	3.59%	1.1962	0.02658	4.06%
032.31	16	16	0.93773	0.10855	0.92516	0.03876	0.00685	4.19%	0.04998	0.01598	0.05247	5.33%	1.70%	5.60%	3.2841	0.01724	4.05%
032.32	3	3	0.89000	0.05568	0.89000	0.05568	0.02273	6.26%	0.05033	0.03367	0.06055	5.66%	3.78%	6.80%	1.7987	0.03333	4.07%
032.33	2	2	0.95200	0.02546													
032.41	23	22	0.93301	0.09496	0.92120	0.04929	0.00743	5.35%	0.04627	0.01264	0.04797	4.96%	1.35%	5.14%	3.7945	0.01202	4.05%
032.42	15	15	0.92389	0.03870	0.92175	0.03857	0.00704	4.18%	0.03436	0.02518	0.04260	3.72%	2.72%	4.61%	1.6921	0.02651	4.05%
032.43	9	9	0.82700	0.27020	0.90890	0.06154	0.01451	6.77%	0.05482	0.01417	0.05662	6.63%	1.71%	6.85%	3.9961	0.01578	4.06%
032.44	1		0.91250														
032.52	1		0.90850														
032.53	1		0.97900														
033.00	29	28	0.09462	0.04502	0.09525	0.04884	0.00653	51.28%	0.04455	0.00920	0.04549	47.08%	9.73%	48.08%	4.9428	0.00933	5.70%
033.01	33	32	0.12542	0.04061	0.11734	0.01747	0.00218	14.89%	0.02290	0.01184	0.02577	18.26%	9.44%	20.55%	2.1776	0.00882	5.52%
033.03	4	4	0.16875	0.06486	0.16875	0.06486	0.02293	38.43%	0.06124	0.03021	0.06828	36.29%	17.90%	40.46%	2.2604	0.03250	5.23%
033.05	1		0.11500														
033.99	5	5	0.28780	0.34893	0.28780	0.34893	0.11034	121.24%	0.34861	0.02098	0.34924	121.13%	7.29%	121.35%	16.649	0.02000	4.82%
034.04	2	2	0.61150	0.01909													
034.42	2	2	1.0150	1.4354													
034.52	1		1.0610														
034.53	1		0.70850														
035.01	3	3	0.01983	0.01000	0.01983	0.01000	0.00408	50.44%	0.00812	0.00826	0.01158	40.96%	41.63%	58.40%	1.4029	0.00767	7.22%
035.05	5	5	0.06530	0.11460	0.06530	0.11460	0.03624	175.49%	0.00711	0.00041	0.00712	10.89%	0.62%	10.90%	17.530	0.00036	6.03%
035.31	14	13	0.02733	0.02353	0.02183	0.01180	0.00231	54.06%	0.01262	0.00377	0.01317	46.17%	13.78%	48.18%	3.4951	0.00332	7.11%
035.32	3	3	0.04667	0.03329	0.04667	0.03329	0.01359	71.34%	0.03304	0.00577	0.03354	70.80%	12.37%	71.87%	5.8095	0.00667	6.34%
035.41	25	25	0.01499	0.00691	0.01286	0.00343	0.00049	26.69%	0.00530	0.00122	0.00544	35.38%	8.13%	36.30%	4.4642	0.00100	7.70%
035.42	14	14	0.02311	0.03309	0.01206	0.00342	0.00065	28.35%	0.00706	0.00249	0.00748	30.53%	10.77%	32.38%	3.0051	0.00279	7.78%
035.43	9	8	0.02360	0.02157	0.01790	0.00444	0.00111	24.80%	0.00401	0.00281	0.00489	16.97%	11.89%	20.72%	1.7431	0.00180	7.33%
035.52	1		0.01035														
035.53	1		0.00900														
036.00	1		0.83000														
036.04	3	3	0.82333	0.02309	0.82333	0.02309	0.00943	2.80%		0.02000			2.43%			0.02000	4.12%
036.42	17	16	0.77748	0.03839	0.77422	0.03479	0.00615	4.49%	0.02462	0.01973	0.03156	3.17%	2.54%	4.06%	1.5990	0.01920	4.16%
036.43	7	7	0.79650	0.08850	0.79515	0.07207	0.01926	9.06%	0.08709	0.02224	0.08988	10.93%	2.79%	11.28%	4.0414	0.02500	4.14%
037.31	14	13	69.080	6.5494	68.130	2.6235	0.51452	3.85%	2.5716	1.5371	2.9960	3.72%	2.23%	4.34%	1.9491	1.7100	8.47%
037.32	3	3	68.568	2.5698	68.568	2.5698	1.0491	3.75%	2.3723	1.3974	2.7532	3.46%	2.04%	4.02%	1.9703	1.7700	8.47%

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS fp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
037.33	1		71.115														
037.41	21	20	66.911	8.9569	68.886	3.5658	0.56381	5.18%	4.0184	1.6038	4.3267	6.01%	2.40%	6.47%	2.6978	1.8275	8.46%
037.42	13	13	68.609	5.6056	67.405	3.4616	0.67888	5.14%	5.0494	3.4428	6.1114	7.36%	5.02%	8.91%	1.7751	3.9031	8.49%
037.43	10	10	71.288	6.1536	70.156	2.9763	0.66553	4.24%	6.0686	1.4415	6.2374	8.51%	2.02%	8.75%	4.3270	1.5140	8.44%
037.44	1		67.050														
037.52	1		52.398														
037.53	1		72.500														
037.99	1		69.016														
038.41	2	2	1.2221	0.21620													
038.42	6	6	1.0505	0.45184	1.1324	0.32392	0.09351	28.61%	0.44879	0.07402	0.45486	42.72%	7.05%	43.30%	6.1447	0.07900	15.70%
038.43	3	3	1.2150	0.03122	1.2150	0.03122	0.01275	2.57%		0.04916			4.05%			0.06333	15.53%
038.52	1		1.4550														
038.53	1		1.2800														
040.42	1		11.750														
041.42	1		0.00000														
041.53	1		0.14100														
051.00	7	7	3,421.6	294.76	3,426.2	290.87	77.739	8.49%	291.88	58.090	297.61	8.53%	1.70%	8.70%	5.1232	56.536	11.80%
051.03	7	7	3,273.5	889.62	3,425.6	620.50	165.83	18.11%	886.00	113.39	893.23	27.07%	3.46%	27.29%	7.8771	102.91	11.80%
082.00	1		0.45500														
082.01	8	7	0.43636	0.02512	0.43558	0.00896	0.00240	2.06%	0.02495	0.00419	0.02530	5.72%	0.96%	5.80%	6.0440	0.00421	4.53%
082.02	1		0.45040														
101.01	1		498.95														
101.02	1		398.19														
106.01	1		0.00000														
106.02	4	4	0.11558	0.14999	0.11558	0.14999	0.05303	129.78%	0.14996	0.00448	0.15002	129.75%	3.88%	129.81%	33.459	0.00445	
108.01	1		0.00000														
108.02	1		0.15500														
109.02	3	3	11.426	10.471	11.426	10.471	4.2749	91.65%	10.469	0.29574	10.474	91.63%	2.59%	91.67%	35.414	0.33767	11.09%
120.00	16	16	0.74363	0.05057	0.74234	0.05090	0.00900	6.86%	0.04980	0.01249	0.05134	6.70%	1.68%	6.90%	4.1097	0.01438	4.18%
120.01	1		0.72900														
120.02	2	2	0.75255	0.00714													
120.05	4	4	0.69243	0.02226	0.69243	0.02226	0.00787	3.21%	0.00897	0.02881	0.03018	1.30%	4.16%	4.36%	1.0473	0.02925	4.23%
120.99	1		0.76500														
121.00	16	16	0.90121	0.03517	0.90603	0.02748	0.00486	3.03%	0.03170	0.02153	0.03832	3.52%	2.39%	4.25%	1.7802	0.02188	4.06%
121.01	2	2	1.2280	0.38467													
121.02	2	2	0.92108	0.04798													
121.05	4	4	0.85675	0.05132	0.85675	0.05132	0.01814	5.99%	0.04935	0.01992	0.05321	5.76%	2.32%	6.21%	2.6716	0.02550	4.09%
121.99	1		1.0550														

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sT	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
122.00	17	16	1.0454	0.08439	1.0351	0.03295	0.00582	3.18%	0.05897	0.01656	0.06125	5.64%	1.58%	5.86%	3.6988	0.02095	3.98%
122.01	2	2	1.3420	0.45538													
122.02	2	2	1.0750	0.06509													
122.05	4	4	1.0056	0.05457	1.0056	0.05457	0.01929	5.43%	0.04008	0.05237	0.06595	3.99%	5.21%	6.56%	1.2593	0.04425	4.00%
122.99	1		1.0650														
123.99	2	2	3.0675	0.27224													
124.00	16	16	0.28863	0.03863	0.28203	0.02448	0.00433	8.68%	0.02067	0.00990	0.02292	7.16%	3.43%	7.94%	2.3156	0.01197	4.84%
124.01	2	2	0.33625	0.11985													
124.02	1		0.30005														
124.05	3	3	0.25883	0.04309	0.25883	0.04309	0.01759	16.65%	0.04284	0.00654	0.04334	16.55%	2.53%	16.74%	6.6215	0.00900	4.90%
124.99	1		0.21000														
125.00	16	15	2.8046	0.17575	2.7853	0.14159	0.02585	5.08%	0.17434	0.03143	0.17715	6.22%	1.12%	6.32%	5.6356	0.03655	3.43%
125.01	2	2	3.7785	1.4899													
125.02	2	2	2.8175	0.16189													
125.05	4	4	2.6756	0.20882	2.6756	0.20882	0.07383	7.80%	0.19137	0.11816	0.22491	7.15%	4.42%	8.41%	1.9035	0.11375	3.45%
126.00	17	16	0.69832	0.04922	0.68913	0.02747	0.00486	3.99%	0.02599	0.01002	0.02785	3.72%	1.43%	3.99%	2.7801	0.01149	4.23%
126.01	2	2	0.98475	0.42037													
126.02	2	2	0.69088	0.01750													
126.05	4	4	0.67863	0.01299	0.67863	0.01299	0.00459	1.91%	0.00546	0.01667	0.01754	0.80%	2.46%	2.58%	1.0522	0.01875	4.24%
126.99	1		0.78000														
127.00	16	16	0.37893	0.01738	0.37876	0.01934	0.00342	5.11%	0.01388	0.01479	0.02028	3.66%	3.90%	5.35%	1.3712	0.01413	4.63%
127.01	2	2	0.43350	0.12869													
127.02	2	2	0.42213	0.06629													
127.05	4	4	0.36813	0.01337	0.36813	0.01337	0.00473	3.63%	0.01108	0.01059	0.01532	3.01%	2.88%	4.16%	1.4471	0.01425	4.65%
127.99	1		0.38500														
128.00	17	17	0.45834	0.03723	0.46244	0.03311	0.00568	7.16%	0.03591	0.01387	0.03850	7.84%	3.03%	8.40%	2.7762	0.01415	4.49%
128.01	2	2	0.66125	0.27895													
128.02	2	2	0.50340	0.03691													
128.05	4	4	0.45588	0.03364	0.45588	0.03364	0.01189	7.38%	0.03303	0.00902	0.03424	7.25%	1.98%	7.51%	3.7955	0.00925	4.50%
128.99	1		0.45500														
129.00	17	17	1.0144	0.03707	1.0158	0.03133	0.00537	3.08%	0.03488	0.01778	0.03915	3.44%	1.75%	3.86%	2.2019	0.01845	3.99%
129.01	2	2	1.3570	0.50487													
129.02	2	2	1.0632	0.03861													
129.05	4	4	0.98438	0.03980	0.98438	0.03980	0.01407	4.04%	0.03525	0.02615	0.04389	3.58%	2.66%	4.46%	1.6785	0.02825	4.01%
129.99	1		1.0850														
130.00	16	16	0.54537	0.02564	0.54061	0.01434	0.00253	2.65%	0.01506	0.01317	0.02000	2.76%	2.41%	3.67%	1.5190	0.01446	4.39%
130.01	2	2	0.70225	0.28673													
130.02	2	2	0.53725	0.06611													

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sI	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
130.05	5	5	0.53910	0.03635	0.53910	0.03635	0.01149	6.74%	0.03306	0.02137	0.03936	6.13%	3.96%	7.30%	1.8420	0.02420	4.39%
130.99	1		0.56000														
131.00	16	16	0.23574	0.01405	0.23574	0.01594	0.00282	6.76%	0.01168	0.01105	0.01608	4.96%	4.69%	6.82%	1.4555	0.01086	4.97%
131.01	2	2	0.29000	0.09617													
131.02	1		0.23300														
131.05	4	4	0.18975	0.05336	0.18975	0.05336	0.01887	28.12%	0.05317	0.00638	0.05355	28.02%	3.36%	28.22%	8.3895	0.00650	5.14%
131.99	1		0.18500														
132.00	17	17	0.61224	0.03765	0.60916	0.03568	0.00612	5.86%	0.03591	0.01597	0.03930	5.87%	2.61%	6.42%	2.4612	0.01741	4.31%
132.01	2	2	0.80375	0.29310													
132.02	2	2	0.62455	0.02185													
132.05	4	4	0.57663	0.00873	0.57663	0.00873	0.00309	1.51%	0.00129	0.01221	0.01228	0.22%	2.12%	2.13%	1.0056	0.01225	4.35%
132.99	1		0.62000														
133.00	17	17	1.0239	0.08491	1.0064	0.05584	0.00958	5.55%	0.08252	0.02828	0.08723	8.06%	2.76%	8.52%	3.0842	0.03246	4.00%
133.04	1		0.98350														
133.05	4	4	1.0055	0.05073	1.0055	0.05073	0.01794	5.05%	0.04409	0.03549	0.05660	4.38%	3.53%	5.63%	1.5949	0.03900	4.00%
133.99	1		1.1600														
134.00	17	16	0.63501	0.08260	0.61938	0.04106	0.00726	6.63%	0.05186	0.02152	0.05615	8.17%	3.39%	8.84%	2.6087	0.02518	4.30%
134.01	2	2	0.80975	0.27895													
134.02	2	2	0.58050	0.05657													
134.05	4	4	0.62900	0.03419	0.62900	0.03419	0.01209	5.43%	0.02720	0.02928	0.03997	4.32%	4.66%	6.35%	1.3649	0.03050	4.29%
134.99	1		0.70000														
135.00	17	16	0.48760	0.02639	0.48231	0.01795	0.00317	3.72%	0.01633	0.01264	0.02065	3.35%	2.59%	4.24%	1.6344	0.01261	4.46%
135.01	2	2	0.62225	0.19481													
135.02	2	2	0.49293	0.02839													
135.05	4	4	0.47000	0.02348	0.47000	0.02348	0.00830	5.00%	0.02162	0.01295	0.02520	4.60%	2.76%	5.36%	1.9457	0.01750	4.48%
135.99	1		0.50000														
136.00	4	4	0.41254	0.43203	0.41254	0.43203	0.15274	104.72%	0.02169	0.00741	0.02292	5.26%	1.80%	5.56%	3.0933	0.01103	4.57%
136.01	5	5	0.18760	0.01682	0.18760	0.01682	0.00532	8.97%	0.01679	0.00141	0.01685	8.95%	0.75%	8.98%	11.917	0.00160	5.15%
136.03	1		0.20450														
136.05	1		0.19000														
136.99	4	4	0.19775	0.02538	0.19775	0.02538	0.00897	12.83%	0.02432	0.01026	0.02640	12.30%	5.19%	13.35%	2.5728	0.01050	5.10%
137.00	11	11	0.43091	0.07204	0.42524	0.06822	0.01454	16.04%	0.07113	0.01612	0.07293	16.51%	3.74%	16.92%	4.5255	0.01512	4.55%
137.01	2	2	0.59975	0.19693													
137.02	2	2	0.42023	0.05554													
137.05	4	4	0.36800	0.08802	0.36800	0.08802	0.03112	23.92%	0.08698	0.01906	0.08904	23.64%	5.18%	24.20%	4.6719	0.02350	4.65%
137.99	1		0.43500														
138.00	17	16	0.66263	0.04552	0.66646	0.04273	0.00755	6.41%	0.04417	0.01559	0.04684	6.67%	2.35%	7.07%	3.0047	0.01613	4.25%
138.01	2	2	0.94850	0.44265													



Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ffp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %/rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
138.02	2	2	0.74238	0.08503													
138.05	4	4	0.65638	0.06946	0.65638	0.06946	0.02456	10.58%	0.06800	0.02002	0.07089	10.36%	3.05%	10.80%	3.5417	0.01975	4.26%
138.99	1		0.66000														
139.00	2	2	0.17750	0.10253													
139.02	1		0.00000														
139.05	1		0.00000														
160.99	2	2	0.25700	0.30123													
161.99	1		0.00000														
162.99	2	2	0.38250	0.42073													
163.99	2	2	0.56000	0.79196													
164.99	2	2	0.06500	0.09192													
165.99	2	2	1.4070	0.37901													
166.99	1		0.50300														
167.99	1		0.11300														
400.01	1		0.46200														
516.00	1		0.12900														
516.42	1		0.00000														
516.53	1		0.08320														
516.99	1		93.500														
518.31	1		2.0700														
518.34	1		0.06480														
518.41	1		0.06725														
518.42	1		0.00000														
518.52	1		0.06900														
518.53	1		0.06370														
520.41	2	2	2.0060	0.13294													
520.42	2	2	3.2050	2.1850													
520.43	1		4.5050														
520.52	1		5.4645														
520.53	1		1.9200														
526.32	1		0.00755														
526.34	1		0.06150														
526.42	1		0.00000														
526.52	1		0.11750														
526.53	1		0.14900														
529.00	1		3.3550														
529.99	2	2	4.5000	1.4142													
539.31	1		2.1450														

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ffp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %/rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
539.41	1		2.1750														
539.42	2	2	1.9678	1.3891													
539.52	1		2.6300														
539.53	1		1.2600														
610.23	1		1,190.0														