

# AAFCO Check Sample Program

Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201123

Infant Pig Starter, 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 sr	Reproducibility sR	Between Labs %RSD	Within Labs %rSD	Reproducibility %RSD	sR/sr	Average Range (R-bar)
000.01	1		0.50000													
001.00	10	7	7.9252	0.54149	7.8718	0.41763	0.11162	5.31%	0.53983	0.05979	0.54313	6.81%	0.75%	6.85%	9.0835	0.05497
001.03	16	15	8.2408	0.61410	8.2164	0.18089	0.03303	2.20%	0.61358	0.03574	0.61462	7.45%	0.43%	7.46%	17.198	0.03240
001.05	1		7.9000													
001.07	37	36	8.1258	0.46559	8.0795	0.25294	0.02981	3.13%	0.45895	0.11078	0.47213	5.65%	1.36%	5.81%	4.2620	0.09818
001.08	1		8.1600													
001.99	18	17	7.9585	0.59810	8.0123	0.45683	0.07835	5.70%	0.59715	0.04750	0.59904	7.50%	0.60%	7.53%	12.612	0.05588
002.00	6	6	22.613	0.38587	22.658	0.32321	0.09330	1.43%	0.37644	0.11990	0.39508	1.66%	0.53%	1.75%	3.2952	0.15833
002.01	11	10	22.745	0.26225	22.732	0.26613	0.05951	1.17%	0.24783	0.12130	0.27592	1.09%	0.53%	1.21%	2.2747	0.11837
002.02	6	6	22.590	0.58025	22.599	0.63849	0.18432	2.83%	0.57632	0.09534	0.58415	2.55%	0.42%	2.59%	6.1269	0.09150
002.03	2	2	22.525	0.45255												
002.04	6	6	23.347	0.97938	22.966	0.38675	0.11165	1.68%	0.93827	0.39705	1.0188	4.02%	1.70%	4.36%	2.5660	0.40000
002.05	33	32	22.833	0.27710	22.833	0.25938	0.03242	1.14%	0.26024	0.13460	0.29299	1.14%	0.59%	1.28%	2.1766	0.11853
002.06	200	132	23.035	0.41121	23.031	0.27196	0.01674	1.18%	0.40048	0.13200	0.42167	1.74%	0.57%	1.83%	3.1945	0.13799
002.08	3	3	23.509	1.1688	23.509	1.1688	0.47717	4.97%	1.1671	0.08983	1.1705	4.96%	0.38%	4.98%	13.030	0.07480
002.10	6	6	22.878	0.19558	22.804	0.07931	0.02289	0.35%	0.17883	0.11201	0.21101	0.78%	0.49%	0.92%	1.8838	0.12047
002.11	11	11	22.522	3.5077	22.729	1.4063	0.29982	6.19%	3.5074	0.06654	3.5080	15.57%	0.30%	15.58%	52.722	0.07091
002.99	3	3	22.888	0.18428	22.888	0.18428	0.07523	0.81%	0.17469	0.08297	0.19339	0.76%	0.36%	0.84%	2.3310	0.08333
003.00	21	20	5.1949	0.18546	5.1851	0.17535	0.02773	3.38%	0.17671	0.07959	0.19381	3.40%	1.53%	3.73%	2.4352	0.07314
003.01	2	2	5.1958	0.22030												
003.06	19	18	5.0931	0.17128	5.0975	0.14168	0.02361	2.78%	0.16013	0.08594	0.18174	3.14%	1.69%	3.57%	2.1146	0.08833
003.09	24	23	5.1020	0.26098	5.0649	0.13483	0.01988	2.66%	0.25751	0.06000	0.26441	5.05%	1.18%	5.18%	4.4065	0.06663
003.10	36	35	4.9325	0.34983	5.0019	0.17199	0.02056	3.44%	0.34449	0.08615	0.35510	6.98%	1.75%	7.20%	4.1219	0.07998
003.11	11	10	5.1109	0.78811	4.9728	0.49828	0.11142	10.02%	0.78779	0.03198	0.78844	15.41%	0.63%	15.43%	24.652	0.03431
003.12	14	13	5.1713	0.17573	5.1436	0.11815	0.02317	2.30%	0.17436	0.03102	0.17709	3.37%	0.60%	3.42%	5.7092	0.03935
003.13	7	7	5.1428	0.20543	5.1064	0.14738	0.03939	2.89%	0.19251	0.10140	0.21758	3.74%	1.97%	4.23%	2.1457	0.11586
003.14	24	24	4.9176	0.38418	4.9471	0.35554	0.05132	7.19%	0.37697	0.10473	0.39125	7.67%	2.13%	7.96%	3.7358	0.10000

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003.99	7	7	5.4093	0.33635	5.3296	0.24642	0.06586	4.62%	0.20634	0.37564	0.42858	3.81%	6.94%	7.92%	1.1409	0.34429
004.00	23	23	2.3679	0.28060	2.3382	0.24198	0.03568	10.35%	0.27070	0.10447	0.29016	11.43%	4.41%	12.25%	2.7775	0.10283
004.01	2	2	2.7000	0.35355												
004.03	3	3	2.7070	0.51048	2.7070	0.51048	0.20840	18.86%	0.48029	0.24459	0.53898	17.74%	9.04%	19.91%	2.2036	0.33670
004.06	39	37	2.5193	0.70930	2.4763	0.39609	0.04604	16.00%	0.70758	0.06970	0.71101	28.09%	2.77%	28.22%	10.201	0.07666
004.07	50	50	2.3961	0.42786	2.3965	0.35079	0.03508	14.64%	0.42450	0.07563	0.43119	17.72%	3.16%	18.00%	5.7012	0.07889
004.11	7	7	6.0491	5.1692	2.8745	0.85195	0.22769	29.64%	5.1684	0.12701	5.1700	85.44%	2.10%	85.47%	40.705	0.13217
004.99	3	3	2.1750	0.27042	2.1750	0.27042	0.11040	12.43%	0.26125	0.09874	0.27928	12.01%	4.54%	12.84%	2.8284	0.11000
005.00	174	112	8.5546	0.14182	8.5596	0.12471	0.00833	1.46%	0.13329	0.06850	0.14986	1.56%	0.80%	1.75%	2.1878	0.06176
005.01	1		8.3150													
005.02	1		8.7700													
005.05	24	22	8.6506	0.11409	8.6554	0.11920	0.01797	1.38%	0.11176	0.03243	0.11637	1.29%	0.37%	1.35%	3.5880	0.03288
005.11	5	5	6.7236	1.3488	6.7236	1.3488	0.42653	20.06%	1.3484	0.04751	1.3492	20.05%	0.71%	20.07%	28.399	0.04768
005.99	12	11	8.6586	0.13185	8.6641	0.13126	0.02798	1.51%	0.12712	0.04950	0.13642	1.47%	0.57%	1.58%	2.7561	0.05182
006.01	1		14.300													
006.99	1		20.265													
008.02	11	11	3.7564	0.61223	3.6627	0.50077	0.10676	13.67%	0.60065	0.16760	0.62360	15.99%	4.46%	16.60%	3.7207	0.18182
008.05	1		5.4000													
008.08	29	29	3.3505	0.52623	3.3575	0.41457	0.05444	12.35%	0.49626	0.24756	0.55458	14.81%	7.39%	16.55%	2.2402	0.26216
008.99	1		12.900													
009.04	1		36.190													
009.07	8	8	7.7319	1.0920	7.6423	1.0403	0.26007	13.61%	1.0677	0.32393	1.1158	13.81%	4.19%	14.43%	3.4445	0.38125
009.09	25	24	8.1484	1.5176	7.8987	0.86170	0.12438	10.91%	1.5076	0.24592	1.5275	18.50%	3.02%	18.75%	6.2116	0.24700
009.99	3	3	12.265	5.8849	12.265	5.8849	2.4025	47.98%	5.8836	0.17630	5.8862	47.97%	1.44%	47.99%	33.387	0.22333
010.03	5	5	6.8965	1.2933	6.8965	1.2933	0.40897	18.75%	1.2857	0.19820	1.3009	18.64%	2.87%	18.86%	6.5634	0.17096
010.11	10	10	7.9572	0.69191	7.9020	0.66979	0.14977	8.48%	0.68525	0.13542	0.69851	8.61%	1.70%	8.78%	5.1580	0.15040
010.99	7	6	8.5763	1.0680	8.4763	0.98812	0.28525	11.66%	1.0676	0.03836	1.0683	12.45%	0.45%	12.46%	27.851	0.03933
011.01	147	80	9.4627	0.51562	9.4969	0.36408	0.02878	3.83%	0.50775	0.12693	0.52338	5.37%	1.34%	5.53%	4.1235	0.12098
011.02	1		8.7800													
011.99	3	3	7.9900	1.2223	7.9900	1.2223	0.49902	15.30%	1.2211	0.07746	1.2236	15.28%	0.97%	15.31%	15.796	0.08000
012.00	8	8	25.320	5.0623	24.178	3.5679	0.89198	14.76%	5.0526	0.44266	5.0720	19.95%	1.75%	20.03%	11.458	0.51500
012.01	3	3	25.566	7.1830	25.566	7.1830	2.9324	28.10%	7.1787	0.35160	7.1873	28.08%	1.38%	28.11%	20.442	0.43880
012.03	3	3	21.378	0.77822	21.378	0.77822	0.31771	3.64%	0.75605	0.26086	0.79979	3.54%	1.22%	3.74%	3.0659	0.27000
012.04	5	5	22.296	3.4639	22.296	3.4639	1.0954	15.54%	3.4620	0.16143	3.4658	15.53%	0.72%	15.54%	21.469	0.18800
012.11	3	3	19.505	6.2769	19.505	6.2769	2.5625	32.18%	6.2769	0.02415	6.2769	32.18%	0.12%	32.18%	259.89	0.03000
013.00	15	13	6.4062	0.34991	6.4265	0.34542	0.06774	5.37%	0.32634	0.17856	0.37200	5.09%	2.79%	5.81%	2.0833	0.18308
013.02	87	29	6.3463	0.40195	6.3688	0.25593	0.03361	4.02%	0.39117	0.13078	0.41246	6.16%	2.06%	6.50%	3.1537	0.13077
013.03	1		0.36000													

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013.10	11	9	5.7315	0.37183	5.7373	0.40361	0.09513	7.03%	0.35933	0.13515	0.38391	6.27%	2.36%	6.70%	2.8405	0.13789
013.11	1		5.6500													
013.13	1		6.8450													
013.99	1		3.6000													
015.41	4	4	59.664	5.2829	59.664	5.2829	1.8678	8.85%	5.2529	0.79454	5.3127	8.80%	1.33%	8.90%	6.6864	0.82738
015.42	1		59.150													
015.43	3	3	66.997	18.681	66.997	18.681	7.6265	27.88%	18.671	0.85639	18.691	27.87%	1.28%	27.90%	21.825	1.1933
015.52	1		59.990													
017.41	2	2	10.585	1.5981												
017.42	3	3	10.357	0.55012	10.357	0.55012	0.22459	5.31%	0.45570	0.43581	0.63056	4.40%	4.21%	6.09%	1.4468	0.55333
017.43	3	3	10.923	0.71768	10.923	0.71768	0.29299	6.57%	0.70177	0.21252	0.73324	6.42%	1.95%	6.71%	3.4501	0.29333
018.41	1		0.11475													
018.52	1		0.08940													
019.00	27	26	1.3923	0.44140	1.2705	0.07081	0.00982	5.57%	0.44082	0.03194	0.44198	31.66%	2.29%	31.75%	13.836	0.03108
019.03	5	5	1.1226	0.34768	1.1226	0.34768	0.10995	30.97%	0.34642	0.04187	0.34894	30.86%	3.73%	31.08%	8.3335	0.03514
019.08	6	5	1.4050	0.07098	1.4050	0.07098	0.02244	5.05%	0.06973	0.01871	0.07220	4.96%	1.33%	5.14%	3.8591	0.02200
019.31	34	33	1.2570	0.08413	1.2691	0.03068	0.00378	2.42%	0.08313	0.01830	0.08512	6.61%	1.46%	6.77%	4.6512	0.01925
019.32	8	7	1.1681	0.18452	1.2254	0.04820	0.01288	3.93%	0.18401	0.01935	0.18502	15.75%	1.66%	15.84%	9.5600	0.01457
019.33	3	3	1.3058	0.04876	1.3058	0.04876	0.01990	3.73%	0.04716	0.01752	0.05030	3.61%	1.34%	3.85%	2.8718	0.02300
019.41	40	39	1.2568	0.06726	1.2610	0.05330	0.00604	4.23%	0.06550	0.02165	0.06899	5.21%	1.72%	5.49%	3.1860	0.02270
019.42	24	23	1.2825	0.07382	1.2812	0.08102	0.01195	6.32%	0.07044	0.03123	0.07705	5.49%	2.44%	6.01%	2.4669	0.02966
019.43	14	14	1.2561	0.07145	1.2584	0.07586	0.01434	6.03%	0.06416	0.04448	0.07807	5.11%	3.54%	6.22%	1.7552	0.05535
019.52	1		1.1293													
019.53	1		1.2200													
019.99	3	3	1.2117	0.13288	1.2117	0.13288	0.05425	10.97%	0.12734	0.05370	0.13820	10.51%	4.43%	11.41%	2.5738	0.07000
020.41	2	2	2.7465	0.63145												
020.42	3	3	3.0092	0.75379	3.0092	0.75379	0.30773	25.05%	0.72093	0.31135	0.78528	23.96%	10.35%	26.10%	2.5222	0.41500
020.43	3	3	3.6833	0.32655	3.6833	0.32655	0.13331	8.87%	0.30458	0.16653	0.34713	8.27%	4.52%	9.42%	2.0845	0.16000
020.52	1		3.6845													
020.99	1		3.2500													
021.31	2	2	2.2000	1.8385												
021.41	3	3	0.97350	0.11493	0.97350	0.11493	0.04692	11.81%	0.09703	0.08711	0.13040	9.97%	8.95%	13.39%	1.4970	0.09833
021.42	4	4	0.80588	0.27612	0.80588	0.27612	0.09762	34.26%	0.18489	0.29002	0.34394	22.94%	35.99%	42.68%	1.1859	0.33175
021.43	3	3	0.98833	0.13605	0.98833	0.13605	0.05554	13.77%	0.13229	0.04491	0.13970	13.38%	4.54%	14.14%	3.1109	0.03667
021.52	1		0.94090													
022.04	1		138.00													
022.31	22	21	132.85	9.5707	134.33	7.8554	1.2121	5.85%	9.4917	1.7355	9.6491	7.14%	1.31%	7.26%	5.5598	1.9493
022.32	3	3	145.00	3.9051	145.00	3.9051	1.5943	2.69%	3.5237	2.3805	4.2525	2.43%	1.64%	2.93%	1.7864	2.6667

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022.33	1		136.00													
022.41	30	30	135.20	12.130	135.91	10.726	1.3847	7.89%	11.902	3.3138	12.354	8.80%	2.45%	9.14%	3.7281	3.4708
022.42	22	20	141.23	4.9595	141.33	4.8207	0.76222	3.41%	3.7781	4.5438	5.9093	2.68%	3.22%	4.18%	1.3005	4.3755
022.43	10	10	128.87	23.868	134.73	8.9502	2.0013	6.64%	23.329	7.1344	24.395	18.10%	5.54%	18.93%	3.4194	7.3240
022.52	1		115.93													
022.53	1		131.00													
022.99	1		234.00													
025.31	19	19	474.91	54.323	483.32	31.455	5.1026	6.51%	54.152	6.0962	54.494	11.40%	1.28%	11.47%	8.9391	7.2842
025.32	2	2	442.75	0.35355												
025.33	1		474.00													
025.34	1		427.00													
025.41	30	29	477.87	37.467	478.53	29.512	3.8751	6.17%	37.110	7.2892	37.820	7.77%	1.53%	7.91%	5.1885	7.7972
025.42	19	19	420.32	64.145	430.16	35.691	5.7899	8.30%	63.042	16.746	65.228	15.00%	3.98%	15.52%	3.8951	16.563
025.43	11	11	445.39	43.086	456.62	29.662	6.3240	6.50%	42.294	11.629	43.864	9.50%	2.61%	9.85%	3.7720	11.931
025.52	1		431.06													
025.99	1		567.50													
026.31	1		81.000													
026.41	1		0.32950													
026.52	1		0.73170													
027.04	1		0.16000													
027.31	16	16	0.24368	0.03253	0.24405	0.02874	0.00508	11.78%	0.03239	0.00434	0.03268	13.29%	1.78%	13.41%	7.5278	0.00454
027.32	4	4	0.18474	0.01705	0.18474	0.01705	0.00603	9.23%	0.01683	0.00388	0.01727	9.11%	2.10%	9.35%	4.4535	0.00363
027.33	2	2	0.20220	0.00396												
027.41	27	27	0.24991	0.03223	0.24665	0.02360	0.00321	9.57%	0.03162	0.00885	0.03283	12.65%	3.54%	13.14%	3.7118	0.00865
027.42	20	20	0.18621	0.01633	0.18424	0.01447	0.00229	7.86%	0.01570	0.00633	0.01693	8.43%	3.40%	9.09%	2.6735	0.00661
027.43	10	9	0.19706	0.01824	0.19754	0.01977	0.00466	10.01%	0.01783	0.00543	0.01864	9.05%	2.75%	9.46%	3.4345	0.00511
027.52	1		0.18260													
027.53	1		0.21000													
027.99	1		0.35000													
028.31	17	16	82.428	6.5839	83.201	3.9381	0.69617	4.73%	6.5354	1.1275	6.6320	7.93%	1.37%	8.05%	5.8818	1.2613
028.32	3	3	87.583	1.5069	87.583	1.5069	0.61520	1.72%	1.3916	0.81752	1.6140	1.59%	0.93%	1.84%	1.9743	0.70000
028.33	1		83.500													
028.41	30	29	82.854	6.6748	82.469	6.0656	0.79645	7.36%	6.5832	1.5588	6.7652	7.95%	1.88%	8.17%	4.3400	1.8005
028.42	22	21	84.276	4.4954	84.320	4.4529	0.68710	5.28%	4.0459	2.7710	4.9039	4.80%	3.29%	5.82%	1.7697	2.4714
028.43	11	11	81.411	8.0260	81.725	8.5281	1.8182	10.44%	7.8741	2.1977	8.1751	9.67%	2.70%	10.04%	3.7199	2.1100
028.52	1		66.123													
028.53	1		74.200													
029.99	1		0.02050													

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCCO CS ffp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rstd	Reproducibility %RSD	sR/sr	Average Range (R-bar)
031.00	4	4	0.80124	0.02810	0.80124	0.02810	0.00994	3.51%	0.02673	0.01227	0.02941	3.34%	1.53%	3.67%	2.3970	0.01358
031.01	59	59	0.80797	0.02602	0.80832	0.02275	0.00209	2.81%	0.02504	0.01000	0.02696	3.10%	1.24%	3.34%	2.6959	0.01026
031.02	3	3	0.81962	0.03080	0.81962	0.03080	0.01257	3.76%	0.03051	0.00589	0.03108	3.72%	0.72%	3.79%	5.2730	0.00763
031.03	6	6	0.81903	0.04259	0.81086	0.02839	0.00819	3.50%	0.04164	0.01269	0.04353	5.08%	1.55%	5.31%	3.4308	0.01263
031.06	2	2	0.69500	0.12728												
031.41	37	36	0.80915	0.03498	0.81053	0.03021	0.00356	3.73%	0.03367	0.01339	0.03624	4.16%	1.66%	4.48%	2.7056	0.01443
031.42	24	23	0.79398	0.03898	0.79426	0.04302	0.00634	5.42%	0.03808	0.01181	0.03987	4.80%	1.49%	5.02%	3.3763	0.01173
031.43	13	13	0.79003	0.04944	0.79681	0.03198	0.00627	4.01%	0.04488	0.02936	0.05362	5.68%	3.72%	6.79%	1.8267	0.03138
031.44	1		0.73500													
031.52	1		0.69550													
031.53	1		0.80650													
031.99	5	5	0.76500	0.04809	0.76500	0.04809	0.01521	6.29%	0.04772	0.00837	0.04845	6.24%	1.09%	6.33%	5.7910	0.01000
032.02	6	6	1.1350	0.16614	1.1672	0.11265	0.03252	9.65%	0.16488	0.02891	0.16739	14.53%	2.55%	14.75%	5.7905	0.02900
032.31	17	16	1.1616	0.08870	1.1590	0.06137	0.01085	5.29%	0.08829	0.01205	0.08911	7.60%	1.04%	7.67%	7.3961	0.01304
032.32	3	3	1.1600	0.10500	1.1600	0.10500	0.04287	9.05%	0.10492	0.00577	0.10508	9.04%	0.50%	9.06%	18.200	0.00667
032.33	1		1.1200													
032.41	28	28	1.1732	0.10736	1.1893	0.04398	0.00588	3.70%	0.10590	0.02493	0.10880	9.03%	2.13%	9.27%	4.3637	0.02634
032.42	21	21	1.1873	0.05432	1.1842	0.05064	0.00781	4.28%	0.04829	0.03518	0.05974	4.07%	2.96%	5.03%	1.6984	0.03338
032.43	10	10	1.1377	0.16100	1.1810	0.04837	0.01082	4.10%	0.15810	0.04306	0.16385	13.90%	3.78%	14.40%	3.8053	0.04285
032.52	1		1.1592													
032.53	1		1.1150													
032.99	1		1.3350													
033.00	35	35	1.1101	0.06536	1.1080	0.06125	0.00732	5.53%	0.06287	0.02527	0.06776	5.66%	2.28%	6.10%	2.6818	0.02753
033.01	38	36	1.1625	0.04768	1.1646	0.02348	0.00277	2.02%	0.04607	0.01739	0.04924	3.96%	1.50%	4.24%	2.8315	0.01378
033.03	8	8	1.2650	0.24511	1.1826	0.02405	0.00601	2.03%	0.24315	0.04373	0.24705	19.22%	3.46%	19.53%	5.6492	0.04250
033.05	1		1.1650													
033.99	10	10	1.1718	0.28831	1.1715	0.24628	0.05507	21.02%	0.28813	0.01425	0.28849	24.59%	1.22%	24.62%	20.245	0.01490
034.01	2	2	0.58150	0.02333												
034.04	8	8	0.60063	0.09919	0.60063	0.11248	0.02812	18.73%	0.09727	0.02747	0.10108	16.19%	4.57%	16.83%	3.6788	0.03075
034.05	1		0.67650													
034.41	1		0.49000													
034.42	2	2	1.0550	0.74953												
034.52	1		0.73050													
034.99	1		0.75000													
035.01	5	5	0.48610	0.11869	0.48610	0.11869	0.03753	24.42%	0.11828	0.01386	0.11909	24.33%	2.85%	24.50%	8.5926	0.01420
035.05	8	8	0.50065	0.09892	0.52306	0.04993	0.01248	9.55%	0.09848	0.01326	0.09937	19.67%	2.65%	19.85%	7.4939	0.01543
035.31	18	18	0.50946	0.03631	0.51137	0.03053	0.00509	5.97%	0.03552	0.01060	0.03707	6.97%	2.08%	7.28%	3.4970	0.01091
035.32	4	4	0.46035	0.12485	0.46035	0.12485	0.04414	27.12%	0.12480	0.00500	0.12490	27.11%	1.09%	27.13%	24.970	0.00510

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCCO CS ffp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rstd	Reproducibility %RSD	sR/sr	Average Range (R-bar)
035.33	2	2	0.50500	0.00000												
035.41	35	33	0.51590	0.02957	0.51748	0.02638	0.00325	5.10%	0.02865	0.01037	0.03047	5.55%	2.01%	5.91%	2.9369	0.01108
035.42	21	21	0.50549	0.06898	0.51683	0.02850	0.00440	5.52%	0.06851	0.01143	0.06945	13.55%	2.26%	13.74%	6.0768	0.01107
035.43	12	12	0.52121	0.02871	0.52240	0.02982	0.00609	5.71%	0.02567	0.01820	0.03146	4.92%	3.49%	6.04%	1.7288	0.01878
035.52	1		0.53015													
035.53	1		0.48600													
036.04	2	2	0.37500	0.02828												
036.42	17	16	0.34466	0.01605	0.34447	0.01496	0.00264	4.34%	0.01536	0.00660	0.01671	4.46%	1.91%	4.85%	2.5333	0.00656
036.43	8	8	0.32922	0.02396	0.32922	0.02717	0.00679	8.25%	0.02229	0.01242	0.02552	6.77%	3.77%	7.75%	2.0545	0.01446
036.99	2	2	0.33300	0.05940												
037.31	24	24	3,063.9	946.12	3,292.1	352.57	50.889	10.71%	945.11	61.789	947.13	30.85%	2.02%	30.91%	15.328	64.962
037.32	5	5	3,327.3	183.77	3,327.3	183.77	58.113	5.52%	166.61	109.67	199.46	5.01%	3.30%	5.99%	1.8188	139.80
037.33	1		3,558.5													
037.41	35	34	3,361.8	300.65	3,368.2	190.56	23.109	5.66%	296.71	68.576	304.53	8.83%	2.04%	9.06%	4.4407	72.205
037.42	21	20	3,378.5	269.39	3,405.5	249.06	39.380	7.31%	265.35	65.744	273.37	7.85%	1.95%	8.09%	4.1581	63.563
037.43	13	13	3,348.3	314.94	3,421.5	233.12	45.719	6.81%	307.79	94.353	321.93	9.19%	2.82%	9.61%	3.4119	106.55
037.52	1		3,595.3													
037.53	1		3,240.0													
037.99	2	2	3,050.3	1,071.6												
038.41	2	2	2,030.1	0.01432												
038.42	5	5	1,877.9	0.54942	1,877.9	0.54942	0.17374	29.26%	0.54149	0.13157	0.55724	28.83%	7.01%	29.67%	4.2354	0.14180
038.43	5	5	2,596.0	1.7145	2,596.0	1.7145	0.54218	66.04%	1.7121	0.12759	1.7169	65.95%	4.91%	66.14%	13.456	0.14800
038.52	1		1,880.5													
039.31	1		3,500.0													
039.41	1		3,096.8													
039.42	2	2	2,570.3	0.46704												
039.43	1		3,150.0													
039.52	1		2,840.0													
040.42	1		3,185.0													
040.43	1		2,820.0													
051.00	9	9	371.50	34.956	378.81	16.080	3.7901	4.24%	34.042	11.232	35.847	9.16%	3.02%	9.65%	3.1915	11.260
051.03	8	7	304.38	125.16	336.05	50.236	13.426	14.95%	125.06	7.1076	125.26	41.09%	2.34%	41.15%	17.623	9.0357
065.03	1		1,800.0													
086.00	4	4	0.00266	0.00122	0.00266	0.00122	0.00043	45.88%	0.00122	0.00004	0.00122	45.87%	1.33%	45.89%	34.559	0.00003
101.01	2	2	463.77	655.87												
101.02	1		907.00													
101.99	1		1,187.2													
104.00	2	2	7.2497	0.08443												

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105.00	1		1.4090													
105.01	2	2	2.3722	0.41412												
106.00	1		3.5500													
106.02	12	12	3.6935	1.3501	3.5343	1.1312	0.23090	32.01%	1.3335	0.29894	1.3666	36.10%	8.09%	37.00%	4.5715	0.29626
108.02	1		2.5600													
109.02	13	13	103.01	21.315	99.990	15.483	3.0364	15.48%	20.951	5.5421	21.672	20.34%	5.38%	21.04%	3.9105	5.0282
113.01	2	2	2.1800	0.09899												
114.01	3	3	0.28313	0.06136	0.28313	0.06136	0.02505	21.67%	0.06080	0.01176	0.06192	21.47%	4.15%	21.87%	5.2676	0.01513
120.00	14	13	1.1114	0.03622	1.1114	0.04107	0.00805	3.70%	0.02414	0.03819	0.04518	2.17%	3.44%	4.06%	1.1830	0.03482
120.02	2	2	1.1402	0.03274												
120.05	3	3	1.0760	0.01516	1.0760	0.01516	0.00619	1.41%	0.00721	0.01886	0.02019	0.67%	1.75%	1.88%	1.0705	0.01933
120.99	3	3	0.94283	0.33629	0.94283	0.33629	0.13729	35.67%	0.33623	0.00895	0.33635	35.66%	0.95%	35.67%	37.566	0.00967
121.00	13	12	1.4414	0.05332	1.4421	0.05886	0.01202	4.08%	0.05243	0.01369	0.05419	3.64%	0.95%	3.76%	3.9589	0.01466
121.02	2	2	1.4987	0.02447												
121.05	3	3	1.4238	0.15019	1.4238	0.15019	0.06131	10.55%	0.14700	0.04356	0.15331	10.32%	3.06%	10.77%	3.5196	0.05033
121.99	3	3	1.3620	0.29724	1.3620	0.29724	0.12135	21.82%	0.29704	0.01568	0.29745	21.81%	1.15%	21.84%	18.965	0.01800
122.00	14	13	2.1057	0.11520	2.1244	0.09077	0.01780	4.27%	0.11147	0.04113	0.11882	5.29%	1.95%	5.64%	2.8891	0.03100
122.02	2	2	2.1590	0.05438												
122.05	3	3	2.1953	0.07211	2.1953	0.07211	0.02944	3.28%		0.13420			6.11%			0.16533
122.99	3	3	1.7928	0.74327	1.7928	0.74327	0.30344	41.46%	0.74308	0.02346	0.74345	41.45%	1.31%	41.47%	31.696	0.02633
123.99	2	2	2.8010	1.3138												
124.00	13	13	0.35464	0.02359	0.35430	0.02444	0.00479	6.90%	0.02263	0.00941	0.02451	6.38%	2.65%	6.91%	2.6039	0.01006
124.02	3	3	0.35980	0.01366	0.35980	0.01366	0.00558	3.80%	0.00648	0.01700	0.01820	1.80%	4.73%	5.06%	1.0701	0.01880
124.05	1		0.43900													
124.99	2	2	0.30500	0.33234												
125.00	14	13	3.5738	0.17805	3.6018	0.12548	0.02461	3.48%	0.17517	0.04510	0.18088	4.90%	1.26%	5.06%	4.0103	0.03635
125.02	2	2	3.5772	0.23784												
125.05	2	2	3.6923	0.12339												
125.99	1		3.8000													
126.00	13	12	1.2168	0.04217	1.2143	0.04265	0.00871	3.51%	0.04115	0.01301	0.04316	3.38%	1.07%	3.55%	3.3177	0.01500
126.02	2	2	1.2314	0.08818												
126.05	3	3	1.1870	0.01130	1.1870	0.01130	0.00461	0.95%	0.00359	0.01515	0.01558	0.30%	1.28%	1.31%	1.0277	0.01667
126.99	3	3	1.0072	0.29513	1.0072	0.29513	0.12049	29.30%	0.29409	0.03494	0.29616	29.20%	3.47%	29.41%	8.4761	0.03167
127.00	14	13	0.56960	0.06013	0.55871	0.03908	0.00766	6.99%	0.05942	0.01307	0.06084	10.43%	2.29%	10.68%	4.6559	0.01142
127.02	2	2	0.61440	0.10904												
127.05	3	3	0.53417	0.03402	0.53417	0.03402	0.01389	6.37%	0.03282	0.01267	0.03518	6.14%	2.37%	6.59%	2.7768	0.01367
127.99	3	3	0.47333	0.15866	0.47333	0.15866	0.06477	33.52%	0.15855	0.00841	0.15877	33.50%	1.78%	33.54%	18.887	0.00933
128.00	14	13	0.85910	0.03309	0.86176	0.03083	0.00605	3.58%	0.03228	0.01032	0.03389	3.76%	1.20%	3.94%	3.2826	0.00985

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCCO CS ffp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rscd	Reproducibility %RSD	sR/sr	Average Range (R-bar)
128.02	2	2	0.89920	0.00396												
128.05	3	3	0.82967	0.09749	0.82967	0.09749	0.03980	11.75%	0.06125	0.10726	0.12352	7.38%	12.93%	14.89%	1.1516	0.10600
128.99	3	3	0.73900	0.35871	0.73900	0.35871	0.14644	48.54%	0.35870	0.00416	0.35873	48.54%	0.56%	48.54%	86.163	0.00400
129.00	14	13	1.6847	0.08132	1.6880	0.04447	0.00872	2.63%	0.08091	0.01158	0.08174	4.80%	0.69%	4.85%	7.0564	0.01301
129.02	2	2	1.7324	0.00339												
129.05	3	3	1.6538	0.09253	1.6538	0.09253	0.03777	5.59%	0.08389	0.05520	0.10043	5.07%	3.34%	6.07%	1.8192	0.06367
129.99	3	3	1.4368	0.49036	1.4368	0.49036	0.20019	34.13%	0.49034	0.00498	0.49037	34.13%	0.35%	34.13%	98.403	0.00567
130.00	16	15	1.4744	0.07559	1.4802	0.03939	0.00719	2.66%	0.07148	0.03476	0.07948	4.85%	2.36%	5.39%	2.2866	0.02953
130.01	1		1.4800													
130.02	2	2	1.5098	0.06976												
130.05	5	5	1.4651	0.08683	1.4651	0.08683	0.02746	5.93%	0.08591	0.01790	0.08775	5.86%	1.22%	5.99%	4.9017	0.02260
130.99	4	4	1.2675	0.41878	1.2675	0.41878	0.14806	33.04%	0.41874	0.00803	0.41882	33.04%	0.63%	33.04%	52.149	0.00850
131.00	12	11	0.49230	0.02972	0.49449	0.02516	0.00536	5.09%	0.02893	0.00962	0.03049	5.88%	1.95%	6.19%	3.1705	0.00867
131.02	3	3	0.49125	0.02648	0.49125	0.02648	0.01081	5.39%	0.02554	0.00993	0.02740	5.20%	2.02%	5.58%	2.7602	0.01257
131.05	3	3	0.55467	0.08822	0.55467	0.08822	0.03601	15.90%	0.08636	0.02548	0.09004	15.57%	4.59%	16.23%	3.5334	0.03200
131.99	4	4	0.38950	0.18913	0.38950	0.18913	0.06687	48.56%	0.18905	0.00791	0.18921	48.54%	2.03%	48.58%	23.934	0.00750
132.00	14	13	1.0304	0.06704	1.0275	0.06151	0.01206	5.99%	0.06494	0.02355	0.06908	6.30%	2.28%	6.70%	2.9339	0.02014
132.02	2	2	1.0900	0.00852												
132.05	3	3	1.0875	0.14765	1.0875	0.14765	0.06028	13.58%	0.14717	0.01691	0.14813	13.53%	1.55%	13.62%	8.7619	0.01900
132.99	3	3	0.89483	0.24224	0.89483	0.24224	0.09890	27.07%	0.24216	0.00877	0.24232	27.06%	0.98%	27.08%	27.645	0.00967
133.00	14	13	1.3115	0.07266	1.3057	0.05772	0.01132	4.42%	0.06847	0.03442	0.07663	5.22%	2.62%	5.84%	2.2263	0.03413
133.02	1		1.2800													
133.05	2	2	1.2710	0.02970												
133.99	3	3	1.0978	0.34122	1.0978	0.34122	0.13930	31.08%	0.34122	0.00041	0.34122	31.08%	0.04%	31.08%	835.82	0.00033
134.00	14	13	1.0105	0.05693	1.0148	0.04987	0.00978	4.91%	0.05609	0.01375	0.05775	5.55%	1.36%	5.72%	4.2015	0.01437
134.02	2	2	1.0285	0.02054												
134.05	3	3	1.0727	0.07831	1.0727	0.07831	0.03197	7.30%	0.06512	0.06151	0.08958	6.07%	5.73%	8.35%	1.4563	0.07400
134.99	3	3	0.82583	0.24863	0.82583	0.24863	0.10150	30.11%	0.24788	0.02735	0.24938	30.02%	3.31%	30.20%	9.1174	0.02233
135.00	14	13	0.98424	0.03080	0.99259	0.01861	0.00365	1.87%	0.02342	0.02828	0.03672	2.38%	2.87%	3.73%	1.2984	0.02345
135.02	2	2	1.0247	0.00117												
135.05	4	4	1.0113	0.04343	1.0113	0.04343	0.01536	4.29%	0.04308	0.00779	0.04378	4.26%	0.77%	4.33%	5.6171	0.00900
135.99	4	4	0.86225	0.22177	0.86225	0.22177	0.07841	25.72%	0.22132	0.02011	0.22223	25.67%	2.33%	25.77%	11.049	0.01650
136.00	2	2	0.28998	0.02478												
136.01	4	4	0.26063	0.02522	0.26063	0.02522	0.00892	9.68%	0.02507	0.00386	0.02537	9.62%	1.48%	9.73%	6.5773	0.00425
136.03	1		0.32300													
136.99	5	5	0.23400	0.07519	0.23400	0.07519	0.02378	32.13%	0.07485	0.01002	0.07552	31.99%	4.28%	32.27%	7.5369	0.00840
137.00	9	8	0.72731	0.04601	0.72679	0.03154	0.00789	4.34%	0.04437	0.01722	0.04760	6.10%	2.37%	6.54%	2.7642	0.01585
137.02	2	2	0.76378	0.07739												



Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCCO CS ffp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rstd	Reproducibility %RSD	sR/sr	Average Range (R-bar)
137.05	3	3	0.81267	0.12899	0.81267	0.12899	0.05266	15.87%	0.12765	0.02626	0.13032	15.71%	3.23%	16.04%	4.9625	0.02667
137.99	3	3	0.70467	0.22046	0.70467	0.22046	0.09000	31.29%	0.22038	0.00816	0.22053	31.27%	1.16%	31.30%	27.010	0.00667
138.00	14	14	1.0436	0.05654	1.0475	0.05511	0.01041	5.26%	0.04603	0.04643	0.06538	4.41%	4.45%	6.26%	1.4080	0.03899
138.02	2	2	1.1090	0.04034												
138.05	3	3	1.0230	0.12554	1.0230	0.12554	0.05125	12.27%	0.09474	0.11648	0.15014	9.26%	11.39%	14.68%	1.2890	0.11733
138.99	3	3	1.0533	0.28167	1.0533	0.28167	0.11499	26.74%	0.28158	0.00997	0.28176	26.73%	0.95%	26.75%	28.270	0.01133
139.00	1		0.07500													
140.01	1		0.21750													
141.00	1		0.19800													
142.00	1		0.17900													