

# AAFCO Check Sample Program

Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201298

Feed grade monocalcium phosphate



# 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 %RRSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
001.00	1		3.8200														
001.03	5	5	3.1850	0.42001	3.1850	0.42001	0.13282	13.19%	0.41990	0.01378	0.42013	13.18%	0.43%	13.19%	30.479	0.01400	3.36%
001.05	1		3.2650														
001.07	10	10	3.4134	0.40983	3.4240	0.44194	0.09882	12.91%	0.38250	0.20811	0.43545	11.21%	6.10%	12.76%	2.0924	0.17617	3.32%
001.08	1		3.4700														
001.99	4	4	22.765	38.477	22.765	38.477	13.604	169.02%	0.14783	0.19098	0.24151	0.65%	0.84%	1.06%	1.2646	0.14650	2.50%
002.00	1		26.640														
002.01	2	2	0.37000	0.52326													
002.02	1		4.1500														
002.06	18	17	0.82937	0.39241	0.82795	0.28740	0.04929	34.71%	0.39101	0.04684	0.39381	47.15%	5.65%	47.48%	8.4069	0.04236	4.12%
003.00	2	2	0.47993	0.50901													
003.06	1		0.02500														
003.10	2	2	0.06750	0.09546													
003.13	1		0.00000														
003.14	2	2	0.08250	0.02475													
004.00	1		0.29000														
004.03	1		0.21500														
004.06	2	2	0.40500	0.41012													
004.07	3	3	0.23667	0.21962	0.23667	0.21962	0.08966	92.80%	0.20050	0.12675	0.23721	84.72%	53.56%	100.23%	1.8714	0.12667	4.97%
005.00	25	25	79.974	0.34842	79.964	0.27363	0.03870	0.34%	0.33900	0.11382	0.35760	0.42%	0.14%	0.45%	3.1417	0.12652	2.07%
005.02	1		80.800														
005.03	1		80.805														
005.05	14	13	80.133	0.45923	80.133	0.52076	0.10213	0.65%	0.45870	0.03101	0.45975	0.57%	0.04%	0.57%	14.824	0.03205	2.07%
005.99	2	2	80.551	0.35461													
006.99	1		0.08500														
008.08	3	3	0.36000	0.09539	0.36000	0.09539	0.03894	26.50%	0.08386	0.06429	0.10567	23.30%	17.86%	29.35%	1.6437	0.08000	4.66%
009.09	3	3	0.99000	1.0489	0.99000	1.0489	0.42819	105.95%	1.0448	0.13089	1.0529	105.53%	13.22%	106.36%	8.0441	0.11333	4.01%

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010.03	1		4.2800														
010.11	1		3.7800														
010.99	6	6	3.5229	0.55007	3.2953	0.09141	0.02639	2.77%	0.12887	0.03210	0.13280	3.66%	0.91%	3.77%	4.1368	0.04275	3.34%
011.01	17	17	5.7590	1.0825	5.9125	0.83322	0.14290	14.09%	1.0756	0.17243	1.0894	18.68%	2.99%	18.92%	6.3176	0.18656	3.06%
011.02	1		4.8100														
011.99	1		7.1800														
012.03	1		0.26500														
012.04	1		0.10000														
013.02	3	3	0.81833	0.78868	0.81833	0.78868	0.32198	96.38%	0.74032	0.38456	0.83424	90.47%	46.99%	101.94%	2.1693	0.33667	4.12%
015.41	2	2	10,454	361.86													
015.42	3	3	10,792	1,415.4	10,792	1,415.4	577.85	13.12%	1,412.4	130.21	1,418.4	13.09%	1.21%	13.14%	10.894	138.33	3.95%
015.43	3	3	10,492	1,262.8	10,492	1,262.8	515.52	12.04%	1,260.3	110.40	1,265.2	12.01%	1.05%	12.06%	11.460	125.00	3.97%
015.52	1		6,971.0														
017.41	2	2	29.700	20.054													
017.42	3	3	112.52	149.72	112.52	149.72	61.124	133.07%		3.7845			3.36%		6.9000	7.86%	
017.43	3	3	84.900	14.797	84.900	14.797	6.0409	17.43%	14.773	1.1893	14.821	17.40%	1.40%	17.46%	12.462	1.2867	8.20%
019.00	36	34	15.493	0.57458	15.444	0.45666	0.05538	2.96%	0.46352	0.06834	0.46853	2.99%	0.44%	3.02%	6.8556	0.06806	2.65%
019.02	1		12.285														
019.03	3	3	15.188	0.68687	15.188	0.68687	0.28041	4.52%	0.68167	0.11927	0.69203	4.49%	0.79%	4.56%	5.8022	0.12783	2.66%
019.08	10	10	14.710	1.5365	15.038	1.0433	0.23329	6.94%	1.5325	0.15497	1.5404	10.42%	1.05%	10.47%	9.9400	0.16830	2.66%
019.31	22	21	14.940	1.6302	15.339	0.59681	0.09209	3.89%	1.6208	0.24681	1.6395	10.85%	1.65%	10.97%	6.6428	0.21654	2.65%
019.32	8	8	15.476	0.75345	15.420	0.72353	0.18088	4.69%	0.75282	0.04358	0.75408	4.86%	0.28%	4.87%	17.305	0.04625	2.65%
019.33	5	5	15.598	0.80820	15.598	0.80820	0.25557	5.18%	0.80280	0.13185	0.81356	5.15%	0.85%	5.22%	6.1705	0.14240	2.65%
019.41	26	26	15.109	1.6920	15.539	0.80294	0.11135	5.17%	1.2134	0.26340	1.2417	8.03%	1.74%	8.22%	4.7141	0.26152	2.65%
019.42	22	22	15.652	0.98321	15.817	0.59664	0.08995	3.77%	0.64342	0.30702	0.71291	4.11%	1.96%	4.55%	2.3221	0.32533	2.64%
019.43	16	15	15.055	1.1112	15.126	0.98272	0.17942	6.50%	1.1004	0.21817	1.1218	7.31%	1.45%	7.45%	5.1420	0.24493	2.66%
019.44	1		16.795														
019.52	2	2	13.408	3.9487													
019.53	2	2	15.775	0.03536													
019.99	3	3	15.128	0.63380	15.128	0.63380	0.25875	4.19%	0.59545	0.30707	0.66996	3.94%	2.03%	4.43%	2.1818	0.35563	2.66%
021.03	1		0.09450														
021.33	1		3.9250														
021.41	2	2	3.1390	1.4764													
021.42	4	4	3.5863	0.48777	3.5863	0.48777	0.17245	13.60%	0.48318	0.09441	0.49232	13.47%	2.63%	13.73%	5.2149	0.11250	13.20%
021.43	4	4	2.4650	1.8915	2.4650	1.8915	0.66874	76.73%	1.8915	0.01803	1.8915	76.73%	0.73%	76.74%	104.92	0.01500	13.97%
021.52	1		2.4465														
022.31	4	4	10.564	14.299	10.564	14.299	5.0553	135.36%	14.138	3.0238	14.458	133.83%	28.62%	136.86%	4.7813	2.2675	11.22%
022.32	1		3.3800														

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022.41	14	14	4.3904	2.7139	3.8887	1.5481	0.29256	39.81%	1.7436	0.99155	2.0058	39.71%	22.58%	45.69%	2.0229	1.1464	13.04%
022.42	10	9	1.9500	1.5437	1.8644	1.3762	0.32438	73.82%	1.4254	0.83804	1.6535	73.10%	42.98%	84.80%	1.9731	0.80444	14.57%
022.43	8	7	2.1593	1.7875	2.1593	2.0270	0.54174	93.87%	1.7866	0.07824	1.7883	82.74%	3.62%	82.82%	22.857	0.06429	14.25%
022.52	1		0.91550														
022.53	2	2	2.4750	1.1667													
023.01	18	17	0.14819	0.04490	0.15019	0.04627	0.00793	30.81%	0.04486	0.00276	0.04494	30.27%	1.86%	30.33%	16.306	0.00208	5.32%
023.99	1		0.16500														
025.31	7	6	6,002.8	4,438.7	6,127.5	4,811.1	1,388.8	78.52%	4,438.6	52.402	4,438.9	73.94%	0.87%	73.95%	84.708	50.773	4.31%
025.32	2	2	11,359	771.86													
025.41	18	17	10,788	901.09	10,793	926.45	158.88	8.58%	885.38	236.92	916.53	8.21%	2.20%	8.50%	3.8686	184.99	3.95%
025.42	13	12	10,707	2,097.3	10,705	1,419.3	289.72	13.26%	2,071.7	461.81	2,122.6	19.35%	4.31%	19.82%	4.5962	493.58	3.96%
025.43	13	12	8,676.7	5,040.2	10,760	1,702.1	347.45	15.82%	5,039.2	143.48	5,041.2	58.08%	1.65%	58.10%	35.136	146.68	3.96%
025.52	1		7,094.5														
025.53	1		1.2000														
027.31	5	5	0.50520	0.23047	0.50520	0.23047	0.07288	45.62%	0.02231	0.02080	0.03051	4.42%	4.12%	6.04%	1.4665	0.02216	4.43%
027.32	2	2	0.61500	0.04243													
027.33	1		0.62000														
027.41	17	16	0.57393	0.09334	0.59068	0.03213	0.00568	5.44%	0.03205	0.01138	0.03401	5.58%	1.98%	5.93%	2.9887	0.01164	4.33%
027.42	15	14	0.58766	0.08448	0.60733	0.05326	0.01007	8.77%	0.08254	0.02548	0.08638	14.05%	4.34%	14.70%	3.3907	0.02280	4.31%
027.43	11	11	0.54741	0.18488	0.58960	0.02798	0.00596	4.75%	0.03444	0.01824	0.03898	6.29%	3.33%	7.12%	2.1364	0.01700	4.33%
027.52	1		0.23890														
027.53	1		0.61200														
028.31	6	5	328.26	95.431	328.26	95.431	30.178	29.07%	95.372	4.7730	95.491	29.05%	1.45%	29.09%	20.006	4.7380	6.69%
028.32	1		172.21														
028.41	17	16	380.99	65.225	394.61	23.338	4.1256	5.91%	28.762	5.9459	29.370	7.55%	1.56%	7.71%	4.9396	6.9429	6.51%
028.42	15	15	389.84	47.760	396.32	35.951	6.5637	9.07%	30.829	17.840	35.619	7.91%	4.58%	9.14%	1.9965	19.946	6.50%
028.43	10	10	355.48	126.11	390.82	22.577	5.0484	5.78%	18.179	4.3767	18.698	5.11%	1.23%	5.26%	4.2721	4.0190	6.52%
028.52	1		280.02														
028.53	2	2	414.00	35.355													
031.00	1		21.500														
031.01	59	57	20.781	1.6600	21.017	0.83091	0.07782	3.95%	1.1991	0.18455	1.2132	5.77%	0.89%	5.84%	6.5739	0.16618	2.53%
031.02	5	5	21.110	0.27763	21.110	0.27763	0.08779	1.32%	0.27718	0.02234	0.27808	1.31%	0.11%	1.32%	12.449	0.02892	2.53%
031.03	5	5	21.192	0.76924	21.192	0.76924	0.24326	3.63%	0.76135	0.15543	0.77705	3.59%	0.73%	3.67%	4.9993	0.16886	2.53%
031.04	1		22.155														
031.06	2	2	12.870	12.467													
031.07	1		21.035														
031.41	24	24	19.353	3.6935	20.511	0.84492	0.12195	4.12%	2.3750	0.22152	2.3853	12.27%	1.14%	12.33%	10.768	0.24055	2.54%
031.42	23	21	20.768	1.0873	20.745	0.95427	0.14725	4.60%	1.0308	0.48944	1.1411	4.96%	2.36%	5.49%	2.3314	0.48528	2.53%

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031.43	16	15	20.089	1.1780	20.167	1.0880	0.19863	5.39%	1.1428	0.40456	1.2123	5.69%	2.01%	6.03%	2.9965	0.41653	2.54%
031.44	2	2	19.416	4.4679													
031.52	1		12.780														
031.53	2	2	20.975	0.10607													
031.99	7	7	21.254	0.43078	21.142	0.19226	0.05138	0.91%		0.31100			1.46%			0.28943	2.53%
032.02	1		0.17600														
032.31	6	6	0.12942	0.03048	0.13117	0.01818	0.00525	13.86%	0.03012	0.00654	0.03083	23.28%	5.05%	23.82%	4.7146	0.00583	5.43%
032.32	2	2	0.16250	0.04596													
032.41	15	15	0.14729	0.05551	0.13448	0.03511	0.00641	26.11%	0.05490	0.01163	0.05612	37.27%	7.90%	38.10%	4.8243	0.01079	5.41%
032.42	12	11	0.15439	0.08735	0.13532	0.04128	0.00880	30.51%	0.03237	0.01064	0.03407	20.97%	6.89%	22.07%	3.2040	0.01262	5.40%
032.43	7	7	0.13643	0.02397	0.12810	0.00956	0.00255	7.46%	0.02303	0.00941	0.02488	16.88%	6.90%	18.24%	2.6434	0.00971	5.45%
032.52	1		0.03940														
032.53	1		0.12750														
033.00	4	4	0.04013	0.03450	0.04013	0.03450	0.01220	85.97%	0.03341	0.01217	0.03555	83.26%	30.33%	88.61%	2.9213	0.01225	6.49%
033.01	4	4	0.03600	0.01615	0.03600	0.01615	0.00571	44.85%	0.01556	0.00608	0.01671	43.23%	16.90%	46.41%	2.7468	0.00600	6.60%
033.03	1		0.10000														
033.99	2	2	0.46250	0.51265													
034.42	2	2	0.87500	1.2374													
034.53	1		5.2500														
035.01	1		0.05250														
035.05	2	2	0.53225	0.63321													
035.31	5	5	0.24160	0.34816	0.24160	0.34816	0.11010	144.10%	0.01209	0.01118	0.01647	5.00%	4.63%	6.82%	1.4729	0.01480	4.95%
035.32	2	2	0.10750	0.01768													
035.41	14	13	0.08571	0.02015	0.08765	0.01747	0.00343	19.93%	0.02009	0.00231	0.02022	23.44%	2.69%	23.59%	8.7540	0.00165	5.77%
035.42	13	12	0.10351	0.04370	0.09624	0.03206	0.00654	33.32%	0.02806	0.00659	0.02883	27.11%	6.37%	27.85%	4.3720	0.00717	5.69%
035.43	8	7	0.07974	0.03687	0.08942	0.01661	0.00444	18.57%	0.01214	0.00108	0.01219	15.22%	1.35%	15.28%	11.282	0.00086	5.75%
035.52	1		0.02640														
035.53	1		0.08200														
036.00	1		0.79000														
036.04	1		0.66000														
036.42	11	10	0.71137	0.14105	0.71255	0.15738	0.03519	22.09%	0.13969	0.02769	0.14241	19.64%	3.89%	20.02%	5.1427	0.02767	4.21%
036.43	7	7	0.76936	0.10501	0.76858	0.11733	0.03136	15.27%	0.10438	0.01619	0.10563	13.57%	2.10%	13.73%	6.5251	0.01471	4.16%
037.31	5	5	85.184	11.651	85.184	11.651	3.6843	13.68%	11.394	3.4435	11.903	13.38%	4.04%	13.97%	3.4566	3.2400	8.19%
037.32	1		67.350														
037.41	16	15	73.504	15.326	73.986	7.2608	1.3256	9.81%	8.7584	2.8050	9.1966	11.92%	3.82%	12.51%	3.2787	3.0279	8.37%
037.42	12	12	64.131	20.974	65.310	20.612	4.2074	31.56%	20.475	6.4312	21.461	31.93%	10.03%	33.46%	3.3370	6.8000	8.53%
037.43	11	11	71.345	25.842	76.476	8.6429	1.8427	11.30%	10.811	2.4593	11.088	15.15%	3.45%	15.54%	4.5085	2.5064	8.33%
037.52	1		17.468														

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037.53	2	2	91.250	35.002													
038.41	2	2	15.766	2.1692													
038.42	3	3	17.143	1.8974	17.143	1.8974	0.77461	11.07%	1.8384	0.66388	1.9546	10.72%	3.87%	11.40%	2.9442	0.79333	10.43%
038.43	4	4	17.600	1.2948	17.600	1.2948	0.45779	7.36%	1.2869	0.20227	1.3027	7.31%	1.15%	7.40%	6.4403	0.25850	10.39%
038.52	1		14.792														
041.42	1		145.95														
106.02	1		0.00000														
160.99	1		0.00000														
162.99	1		0.00000														
163.99	1		0.00000														
164.99	1		0.00000														
165.99	1		0.08850														
400.01	1		0.35950														
516.01	1		9.9843														
516.34	1		21.560														
516.42	1		15.850														
516.43	2	2	9.7777	9.6204													
516.52	1		13.995														
516.99	1		93.500														
518.31	2	2	2.5515	0.68094													
518.34	2	2	4.2208	0.05056													
518.41	1		4.2235														
518.42	1		3.9000														
518.43	2	2	3.9648	0.34613													
518.52	1		3.5545														
520.41	1		90.884														
520.42	2	2	86.025	5.6922													
520.43	3	3	82.708	8.3625	82.708	8.3625	3.4140	10.11%	8.3222	1.1587	8.4025	10.06%	1.40%	10.16%	7.2514	1.5827	8.23%
520.52	1		59.349														
526.31	1		9.0000														
526.34	3	3	3.3325	1.1295	3.3325	1.1295	0.46112	33.89%	1.1292	0.03839	1.1298	33.88%	1.15%	33.90%	29.433	0.04633	13.35%
526.41	1		0.88175														
526.42	1		3.5500														
526.43	2	2	1.5031	1.9843													
526.52	1		2.4275														
526.53	1		3.4900														
529.00	1		19.615														
529.99	2	2	6.9750	0.03536													

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
539.31	1	1	11.490														
539.41	1	1	16.333														
539.42	1	1	17.450														
539.43	1	1	17.168														
539.52	1	1	13.359														