

Feed Check Sample No. - 200928 Senior Pig Starter, Medicated
 Association of American Feed Control Officials

- Pass 1 Results for 210 Labs - - Pass 2 Results for 209 Labs -

Method	AOAC 18th	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
NPN, Automated		000.03	1	1.75500	0.17678	0.25000	1	1.75500	0.17678	0.25000
Urea, Misc		000.99	1	0.19500	0.09192	0.13000	1	0.19500	0.09192	0.13000
Method Group 000.XX PCT			2	0.97500	0.90798	0.19000	2	0.97500	0.90798	0.19000
Loss on Drying, Vac 95 deg 5 hr	934.01	001.00	10	11.0190	0.75212	0.18400	11	11.1764	0.87833	0.17636
Loss on Drying, ISO 6496		001.03	6	10.8717	0.15833	0.15000	6	10.8717	0.15833	0.15000
Loss on Drying, LECO		001.05	1	10.9200	0.00000	0.00000	1	10.9200	0.00000	0.00000
Loss on Drying, 104 deg 3 hr, in malt .	935.29	001.07	38	10.8570	0.43018	0.12514	33	10.9349	0.30987	0.07592
Loss on Drying, 102 deg 16 hr, in meat	950.46	001.08	1	10.7350	0.06364	0.09000	1	10.7350	0.06364	0.09000
Loss on Drying, Misc		001.99	19	10.8521	0.61761	0.16871	18	10.8900	0.60383	0.13031
Method Group 001.XX PCT			75	10.8778	0.51502	0.14388	69	10.9268	0.47078	0.11132
Protein, Crude	954.01	002.00	6	21.7558	0.63680	0.13167	6	21.7558	0.63680	0.13167
Protein, Auto Kjel-Foss	976.05	002.01	10	21.3709	0.23931	0.06721	9	21.3477	0.23790	0.04801
Protein, Semiauto Autoanalyzer	976.06	002.02	9	21.3192	0.48015	0.17189	9	21.3192	0.48015	0.17189
Protein, Copper Cat	984.13	002.04	7	21.3443	0.74814	0.09143	7	21.3443	0.74814	0.09143
Protein, Copper, Boric Acid		002.05	20	21.3624	0.27812	0.16377	19	21.3631	0.27368	0.13555
Protein, Combustion Nitrogen Analyzer	990.03	002.06	126	21.7388	0.35340	0.17722	120	21.7327	0.32996	0.14475
Protein, Cu/Ti	988.05	002.08	5	21.2428	0.42138	0.17400	5	21.2428	0.42138	0.17400
Protein, Block dig/distillation		002.10	14	21.2937	0.53896	0.17464	13	21.2382	0.49767	0.10885
Protein, NIR		002.11	14	20.7375	0.37672	0.19664	14	20.7375	0.37672	0.19664
Protein, Misc		002.99	4	22.0225	0.26585	0.26500	4	22.0225	0.26585	0.26500
Method Group 002.XX PCT			215	21.5563	0.48521	0.16922	206	21.5461	0.47670	0.14297
Fat, Eth Ext, Direct	920.39	003.00	27	3.78164	0.26284	0.08446	24	3.82143	0.20382	0.05918
Fat, Ind Eth Ext (13th ed), Indirect ..	920.39	003.01	1	3.63000	0.09899	0.14000	1	3.63000	0.09899	0.14000
Fat, Pet Ether		003.06	23	3.65848	0.22874	0.06739	21	3.66405	0.23295	0.04619
Fat, Soxtec, Eth Ext		003.09	24	3.70451	0.21001	0.06635	22	3.72402	0.20358	0.04693
Fat, Soxtec, Pet Ether		003.10	27	3.57023	0.11782	0.06506	26	3.56620	0.11602	0.05872
Fat, NIR		003.11	15	3.78440	0.17544	0.06535	14	3.80078	0.15632	0.03502
Fat, Hexane Ext.		003.12	4	3.81750	0.21225	0.07500	4	3.81750	0.21225	0.07500
Fat, Soxtec, Hexane Ext.		003.13	5	3.61500	0.27486	0.05840	5	3.61500	0.27486	0.05840
Fat, Ankom		003.14	14	3.48446	0.23135	0.13250	14	3.48446	0.23135	0.13250
Fat, Misc		003.99	10	3.59900	0.27150	0.19400	10	3.59900	0.27150	0.19400
Method Group 003.XX PCT			150	3.66712	0.23494	0.08458	141	3.67565	0.22864	0.07069
Fiber, Crude Asbestos Free	962.09	004.00	27	2.79883	0.26547	0.10448	25	2.79334	0.23930	0.06764
Fiber, Sing Filt		004.01	1	3.50500	0.23335	0.33000	1	3.50500	0.23335	0.33000
Fiber, Fritted Glass	978.10	004.03	2	3.01000	0.21587	0.19000	2	3.01000	0.21587	0.19000
Fiber, Fibertec		004.06	34	3.02722	0.31719	0.10614	34	3.02722	0.31719	0.10614
Fiber, ANKOM		004.07	40	2.80963	0.31536	0.11425	38	2.78605	0.29966	0.09263
Fiber, NIR		004.11	14	2.87044	0.35970	0.08642	13	2.87701	0.36844	0.06153
Fiber, Misc		004.99	5	2.80600	0.31662	0.15200	5	2.80600	0.31662	0.15200

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Method Group 004.XX PCT			123	2.88309	0.32609	0.11122	118	2.87784	0.32087	0.09398
Ash,	942.05	005.00	136	5.23616	0.15007	0.05192	126	5.23768	0.13163	0.03826
Ash, Sugars & Syrups	900.02	005.01	1	5.19000	0.00000	0.00000	1	5.19000	0.00000	0.00000
Ash, LECO		005.02	1	5.36000	0.00000	0.00000	1	5.36000	0.00000	0.00000
Ash, NIR		005.11	7	5.53576	0.14172	0.06636	8	5.58129	0.18134	0.05806
Ash, Misc		005.99	9	5.34389	0.09509	0.06467	9	5.34389	0.09509	0.06467
Method Group 005.XX PCT			154	5.25657	0.16031	0.05265	144	5.25932	0.14591	0.04075
Fiber, Acid Detergent	973.18	008.02	13	4.25154	0.50564	0.16769	12	4.30500	0.48199	0.13500
Fiber, Acid Detergent-Hach		008.05	1	4.25000	0.07071	0.10000	1	4.25000	0.07071	0.10000
Fiber, Acid Detergent by ANKOM		008.08	22	4.04068	0.41482	0.16045	21	4.02357	0.40549	0.12619
Fiber, Acid Detergent Misc		008.99	4	4.47625	0.35311	0.16750	4	4.47625	0.35311	0.16750
Method Group 008.XX PCT			40	4.15800	0.45464	0.16200	38	4.16605	0.44814	0.13263
Fiber, Neutral Det-ENZ Pretreat		009.07	11	10.6027	1.04728	0.35273	11	10.6027	1.04728	0.35273
Fiber, Neutral Detergent by ANKOM		009.09	17	10.2374	0.66869	0.29588	16	10.2147	0.67145	0.25188
Fiber, Neutral Det Misc		009.99	4	11.0388	0.50161	0.40250	4	11.0388	0.50161	0.40250
Method Group 009.XX PCT			32	10.4631	0.83915	0.32875	31	10.4587	0.84760	0.30710
Moisture, Karl-Fischer	966.20	010.03	2	10.9325	0.72265	0.32500	2	10.9325	0.72265	0.32500
Moisture, NIR		010.11	14	10.8559	0.21198	0.11321	13	10.8613	0.20505	0.07962
Moisture, Misc		010.99	13	10.6396	0.41974	0.14200	12	10.7088	0.33876	0.09217
Method Group 010.XX PCT			29	10.7642	0.37315	0.14072	27	10.7988	0.32578	0.10337
Loss on Drying, 135 deg 2 hr	930.15	011.01	82	11.9775	0.46669	0.11615	79	11.9735	0.46720	0.09638
Loss on Drying, High Temp Methods, Misc		011.99	1	11.1400	0.22627	0.32000	1	11.1400	0.22627	0.32000
Method Group 011.XX PCT			83	11.9674	0.47315	0.11860	80	11.9631	0.47380	0.09918
Starch, Polarimetric (Ewers)		012.00	7	37.3943	1.22812	0.37714	7	37.3943	1.22812	0.37714
Starch, Megazyme		012.01	3	33.6467	0.64093	0.46667	3	33.6467	0.64093	0.46667
Starch, Enzymatic		012.03	4	34.9663	2.06563	0.78250	4	34.9663	2.06563	0.78250
Starch, YSI Analyzer		012.04	5	34.1290	2.16586	0.22200	5	34.1290	2.16586	0.22200
Starch, NIR		012.11	6	36.4985	1.05684	0.16967	6	36.4985	1.05684	0.16967
Starch, Misc.		012.99	2	40.2775	1.10470	0.31500	2	40.2775	1.10470	0.31500
Method Group 012.XX PCT			27	36.0280	2.33846	0.36770	27	36.0280	2.33846	0.36770
Fat, Mojonnier, Bak Ext	954.02	013.02	31	4.66839	0.44025	0.13097	29	4.70672	0.42400	0.10586
Fat, Roese-Gottlieb Modified.....		013.08	1	5.14500	0.06364	0.09000	1	5.14500	0.06364	0.09000
Fat, Soxtec-Acid Hydrolysis		013.10	15	4.34990	0.47866	0.14887	15	4.34990	0.47866	0.14887
Fat, Super Critical Fluid Extraction ..		013.11	2	3.97625	0.80975	0.26250	2	3.97625	0.80975	0.26250
Fat, NIR-Acid Hydrolysis		013.12	3	3.93333	0.45129	0.06667	3	3.93333	0.45129	0.06667
Fat, Ankon-Acid Hydrolysis		013.13	2	4.86750	0.22292	0.21500	2	4.86750	0.22292	0.21500
Fat, Pretreat or extended ext, misc ...		013.99	3	4.56000	0.79561	0.08667	3	4.56000	0.79561	0.08667
Method Group 013.XX PCT			57	4.53125	0.52807	0.13681	55	4.54647	0.52923	0.12378
Aluminum, ICP		015.00	10	79.1920	14.7647	3.24000	9	76.8522	13.3646	1.87778

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Method Group 015.XX PPM			10	79.1920	14.7647	3.24000	9	76.8522	13.3646	1.87778
Arsenic, AA, Hydride		016.00	1	0.04050	0.00071	0.00100	1	0.04050	0.00071	0.00100
Boron, ICP		017.00	8	12.3056	2.09829	0.71875	8	12.3056	2.09829	0.71875
Boron, Misc		017.99	1	12.4500	0.35355	0.50000	1	12.4500	0.35355	0.50000
Method Group 017.XX PPM			9	12.3217	1.97342	0.69444	9	12.3217	1.97342	0.69444
Cadmium, ICP		018.02	1	0.05750	0.01202	0.01700	1	0.05750	0.01202	0.01700
Calcium, Ox-Mn04 Vol	927.02	019.00	8	0.76113	0.03585	0.00725	7	0.75271	0.02849	0.00257
Calcium, At Abs Spect	968.08	019.01	50	0.74969	0.04141	0.01393	48	0.74849	0.04038	0.01197
Calcium, Semiauto (Autoanalyzer)		019.03	6	0.78642	0.03607	0.01417	6	0.78642	0.03607	0.01417
Calcium, ICP, Dry Ash.....		019.05	38	0.74219	0.02926	0.01538	38	0.74219	0.02926	0.01538
Calcium, EDTA		019.08	8	0.75916	0.03928	0.01804	7	0.76046	0.04034	0.01204
Calcium, ICP, Wet Ash		019.09	29	0.74463	0.03240	0.02278	28	0.74480	0.03092	0.01931
Calcium, Misc		019.99	6	0.76908	0.05316	0.03083	6	0.76908	0.05316	0.03083
Method Group 019.XX PCT			145	0.75019	0.03774	0.01665	140	0.74936	0.03676	0.01480
Chromium, ICP		020.01	5	1.61165	0.80727	0.42110	5	1.61165	0.80727	0.42110
Chromium, Misc		020.99	2	3.27750	0.99614	0.37500	2	3.27750	0.99614	0.37500
Method Group 020.XX PPM			7	2.08761	1.13581	0.40793	7	2.08761	1.13581	0.40793
Cobalt, AA	968.08	021.01	1	1.37000	0.04243	0.06000	1	1.37000	0.04243	0.06000
Cobalt, ICP		021.02	11	0.38782	0.22820	0.03418	10	0.39505	0.23745	0.02290
Cobalt, Misc.		021.99	1	0.38100	0.01980	0.02800	1	0.38100	0.01980	0.02800
Method Group 021.XX PPM			13	0.46285	0.33934	0.03569	12	0.47513	0.35022	0.02642
Copper, AA	968.08	022.01	29	137.501	8.64154	3.65467	28	138.147	7.90599	3.18341
Copper, ICP, Dry Ash	968.08	022.03	34	134.172	10.1105	4.07276	32	133.704	9.90779	3.13044
Copper, ICP, Wet Ash	968.08	022.05	29	144.634	8.55534	2.56724	27	144.125	8.20089	2.09074
Copper, Misc		022.99	4	139.521	5.39321	5.21750	4	139.521	5.39321	5.21750
Method Group 022.XX PPM			96	138.561	9.97433	3.53937	91	138.418	9.57244	2.92999
Fluorine, Ion Sel Elect	975.08	023.01	1	0.00100	0.00000	0.00000	1	0.00100	0.00000	0.00000
Iron, AA	968.08	025.01	25	282.986	25.0888	8.77381	24	284.423	23.5131	6.26439
Iron, ICP, Dry Ash	968.08	025.03	33	281.995	18.7430	9.22848	31	281.750	17.7160	7.43032
Iron, ICP, Wet Ash	968.08	025.05	26	270.371	29.7936	11.1081	25	269.786	28.8471	7.95240
Iron, Misc		025.99	3	258.117	26.2408	3.83333	3	258.117	26.2408	3.83333
Method Group 025.XX PPM			87	277.983	25.2257	9.47351	83	278.065	24.3641	7.12043
Lead,		026.00	1	0.14500	0.00707	0.01000	1	0.14500	0.00707	0.01000
Lead, Misc		026.99	2	0.22738	0.17069	0.03425	2	0.22738	0.17069	0.03425
Method Group 026.XX PPM			3	0.19992	0.13893	0.02617	3	0.19992	0.13893	0.02617
Magnesium, AA	968.08	027.01	26	0.20137	0.01156	0.00321	26	0.20137	0.01156	0.00321
Magnesium, ICP, Dry Ash	968.08	027.03	33	0.20690	0.01118	0.00410	32	0.20774	0.01224	0.00298
Magnesium, ICP, Wet Ash	968.08	027.05	23	0.19508	0.00819	0.00396	22	0.19531	0.00802	0.00323
Magnesium, Misc.		027.99	1	0.17500	0.00707	0.01000	1	0.17500	0.00707	0.01000

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Method Group 027.XX PCT			83	0.20151	0.01187	0.00385	80	0.20144	0.01168	0.00325
Manganese, AA	968.08	028.01	27	87.9469	7.25974	2.20698	26	87.9476	7.35248	1.96417
Manganese, ICP, Dry Ash	968.08	028.03	31	90.7132	5.22611	2.93355	30	90.9903	5.00033	2.70467
Manganese, ICP, Wet Ash	968.08	028.05	31	91.5040	7.05077	3.02355	29	90.9883	6.61007	2.50414
Manganese, Misc.		028.99	3	89.1433	5.46797	5.10667	3	89.1433	5.46797	5.10667
Method Group 028.XX PPM			92	90.1166	6.62940	2.82150	88	90.0277	6.41917	2.50169
Phosphorus, Photometric	965.17	031.01	55	0.59963	0.02331	0.00795	54	0.59907	0.02279	0.00698
Phosphorus, GQMP (2.028)	964.06	031.02	4	0.59564	0.00476	0.00512	4	0.59564	0.00476	0.00512
Phosphorus, Autoanalyzer		031.03	8	0.58756	0.02521	0.01163	8	0.58756	0.02521	0.01163
Phosphorus, ICP		031.05	66	0.58802	0.02519	0.01192	62	0.58684	0.02357	0.00973
Phosphorus, Hach Method		031.06	2	0.59000	0.04082	0.05000	2	0.59000	0.04082	0.05000
Phosphorus, Misc		031.99	6	0.58250	0.04288	0.01167	7	0.59857	0.05682	0.01143
Method Group 031.XX PCT			141	0.59253	0.02581	0.01069	136	0.59185	0.02497	0.00929
Potassium, AA	975.03	032.01	23	0.95649	0.04611	0.01640	23	0.95649	0.04611	0.01640
Potassium, Flame Emission	956.01	032.02	5	0.95570	0.06103	0.01660	5	0.95570	0.06103	0.01660
Potassium, ICP		032.05	50	0.96236	0.03549	0.02517	48	0.96173	0.03193	0.02310
Potassium, Misc		032.99	1	0.89000	0.01414	0.02000	1	0.89000	0.01414	0.02000
Method Group 032.XX PCT			79	0.95931	0.04109	0.02201	77	0.95884	0.03935	0.02063
Salt, Sol Cl	943.01	033.00	27	0.60151	0.05315	0.01121	27	0.59484	0.06000	0.00973
Salt, Poten Cl	969.10	033.01	30	0.62631	0.01883	0.00814	30	0.62431	0.02075	0.00748
Salt, Quantab		033.03	7	0.59929	0.04009	0.02143	7	0.59929	0.04009	0.02143
Salt, Ion Sel Electrode		033.05	1	0.59500	0.00707	0.01000	1	0.59500	0.00707	0.01000
Salt, Misc		033.99	11	0.59177	0.06750	0.02300	11	0.57109	0.06804	0.01618
Method Group 033.XX PCT			76	0.60960	0.04578	0.01263	73	0.60787	0.04522	0.01110
Selenium, Fluor	969.06	034.01	1	0.50250	0.02475	0.03500	1	0.50250	0.02475	0.03500
Selenium, AA, Hydride		034.04	7	0.52436	0.08001	0.02671	7	0.52436	0.08001	0.02671
Selenium, ICP		034.05	2	0.64500	0.01831	0.00600	2	0.64500	0.01831	0.00600
Selenium, Misc		034.99	4	0.48725	0.04989	0.01450	4	0.48725	0.04989	0.01450
Method Group 034.XX PPM			14	0.52943	0.07975	0.02086	14	0.52943	0.07975	0.02086
Sodium, AA		035.00	23	0.21259	0.01418	0.00772	22	0.21139	0.01277	0.00653
Sodium, Ion Sel Electrode		035.01	4	0.21781	0.01084	0.00673	4	0.21781	0.01084	0.00673
Sodium, ICP		035.03	53	0.19982	0.01149	0.00557	50	0.19968	0.01074	0.00442
Sodium, Flame Emission	956.01	035.05	10	0.20785	0.01300	0.00510	9	0.20983	0.01164	0.00344
Sodium, Misc		035.99	3	0.20783	0.03058	0.01700	3	0.20783	0.03058	0.01700
Method Group 035.XX PCT			93	0.20487	0.01445	0.00647	88	0.20475	0.01365	0.00538
Sulfur, (Gravimetric)		036.00	1	0.22500	0.02121	0.03000	1	0.22500	0.02121	0.03000
Sulfur, ICP		036.03	23	0.26397	0.02315	0.00545	23	0.26397	0.02315	0.00545
Sulfur, LECO		036.04	1	0.27500	0.00707	0.01000	1	0.27500	0.00707	0.01000
Method Group 036.XX PCT			25	0.26285	0.02383	0.00662	25	0.26285	0.02383	0.00662

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Zinc, AA	968.08	037.01	30	388.162	18.6046	6.86160	29	386.409	16.2354	6.75338
Zinc, ICP, Dry Ash	968.08	037.03	33	389.887	25.5955	10.7299	31	388.654	24.5210	7.48665
Zinc, ICP, Wet Ash	968.08	037.05	31	395.892	34.3440	10.9684	29	392.781	32.5517	8.41448
Zinc, Misc		037.99	5	379.890	24.0301	12.4160	5	379.890	24.0301	12.4160
Method Group 037.XX PPM			99	390.740	26.9820	9.71752	94	388.768	25.2626	7.80887
Molybdenum, ICP		038.00	9	1.68819	0.20993	0.11317	8	1.66172	0.19464	0.07731
Molybdenum, Misc		038.99	1	2.20000	0.00000	0.00000	1	2.20000	0.00000	0.00000
Method Group 038.XX PPM			10	1.73938	0.25347	0.10185	9	1.72153	0.25244	0.06872
Nickel, AA		039.01	1	1.50000	0.00000	0.00000	1	1.50000	0.00000	0.00000
Nickel, ICP		039.02	4	2.08119	0.08966	0.08863	4	2.08119	0.08966	0.08863
Method Group 039.XX PPM			5	1.96495	0.25749	0.07090	5	1.96495	0.25749	0.07090
Barium, ICP		040.00	1	4.37000	0.16971	0.24000	1	4.37000	0.16971	0.24000
Vanadium, ICP		041.00	1	0.26025	0.00035	0.00050	1	0.26025	0.00035	0.00050
Carbadox, HPLC		050.01	12	0.00538	0.00073	0.00016	12	0.00538	0.00073	0.00016
Method Group 050.XX PCT			12	0.00538	0.00073	0.00016	12	0.00538	0.00073	0.00016
Choline Chloride, Chem		101.01	1	915.000	48.0833	68.0000	1	915.000	48.0833	68.0000
Choline Chloride, HPLC		101.02	1	60.5400	0.96167	1.36000	1	60.5400	0.96167	1.36000
Method Group 101.XX MG/LB			2	487.770	494.104	34.6800	2	487.770	494.104	34.6800
Riboflavin, Fluorometric	970.65	104.00	2	7.23250	0.42851	0.51500	2	7.23250	0.42851	0.51500
Method Group 104.XX MG/LB			2	7.23250	0.42851	0.51500	2	7.23250	0.42851	0.51500
Thiamine, HPLC		105.00	1	2.63500	0.03536	0.05000	1	2.63500	0.03536	0.05000
Thiamine,	942.23	105.01	2	3.90750	0.94047	0.28500	2	3.90750	0.94047	0.28500
Method Group 105.XX MG/LB			3	3.48333	0.98120	0.20667	3	3.48333	0.98120	0.20667
Vitamin A, Color	974.29	106.00	1	4.05000	0.35355	0.50000	1	4.05000	0.35355	0.50000
Vitamin A, UV		106.01	1	4.94500	0.26163	0.37000	1	4.94500	0.26163	0.37000
Vitamin A, HPLC		106.02	13	3.67472	0.56101	0.31239	13	3.67472	0.56101	0.31239
Method Group 106.XX KU/LB			15	3.78442	0.62172	0.32874	15	3.78442	0.62172	0.32874
Vitamin B12,	952.20	107.00	2	33.9850	13.8841	2.14000	2	33.9850	13.8841	2.14000
Method Group 107.XX MCG/L			2	33.9850	13.8841	2.14000	2	33.9850	13.8841	2.14000
Vitamin D3, HPLC		108.02	2	3.07500	0.73214	0.36000	2	3.07500	0.73214	0.36000
Method Group 108.XX KU/LB			2	3.07500	0.73214	0.36000	2	3.07500	0.73214	0.36000
Vitamin E, HPLC		109.02	10	151.871	22.9002	4.44033	9	148.968	22.0758	2.93370
Vitamin E, Misc		109.99	1	183.500	4.94975	7.00000	1	183.500	4.94975	7.00000
Method Group 109.XX MG/KG			11	154.746	23.7120	4.67303	10	152.421	23.4586	3.34033
Folic Acid,	944.12	113.01	2	2.41750	0.08098	0.13500	2	2.41750	0.08098	0.13500
Method Group 113.XX MG/KG			2	2.41750	0.08098	0.13500	2	2.41750	0.08098	0.13500
Biotin, Microbiological		114.01	1	0.31350	0.00212	0.00300	1	0.31350	0.00212	0.00300
Alanine, Post-col Ninhydrin Der	994.12	120.00	10	1.06096	0.04019	0.01829	10	1.06096	0.04019	0.01829
Alanine, Pre-col AQC Der		120.05	1	1.05000	0.04243	0.06000	1	1.05000	0.04243	0.06000

Feed Check Sample No. - 200928 Senior Pig Starter, Medicated
 Association of American Feed Control Officials

- Pass 1 Results for 210 Labs - - Pass 2 Results for 209 Labs -

Method	AOAC 18th	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Method Group 120.XX PCT			11	1.05996	0.03946	0.02208	11	1.05996	0.03946	0.02208
Arginine, Post-col Ninhydrin Der	994.12	121.00	9	1.40770	0.07586	0.02522	9	1.40770	0.07586	0.02522
Arginine, Pre-col AQC Der		121.05	2	1.46000	0.05354	0.09000	2	1.46000	0.05354	0.09000
Method Group 121.XX PCT			11	1.41721	0.07412	0.03700	11	1.41721	0.07412	0.03700
Aspartic, Post-col Ninhydrin Der	994.12	122.00	9	2.01599	0.08925	0.02033	9	2.01599	0.08925	0.02033
Aspartic, Pre-col AQC Der		122.05	1	2.05500	0.16263	0.23000	1	2.05500	0.16263	0.23000
Method Group 122.XX PCT			10	2.01989	0.09308	0.04130	10	2.01989	0.09308	0.04130
Cysteine/Cystine, PAO Post-col Ninhydrin Der	994.12	124.00	8	0.32581	0.00819	0.00813	8	0.32581	0.00819	0.00813
Cysteine/Cystine, PAO Post-col OPA Der		124.02	2	0.28175	0.00206	0.00050	2	0.28175	0.00206	0.00050
Cysteine/Cystine, PAO Pre-col AQC Der .		124.05	1	0.34000	0.00000	0.00000	1	0.34000	0.00000	0.00000
Method Group 124.XX PCT			11	0.31909	0.01975	0.00600	11	0.31909	0.01975	0.00600
Glutamic, Post-col Ninhydrin Der	994.12	125.00	10	3.62767	0.25954	0.06160	10	3.62767	0.25954	0.06160
Glutamic, Pre-col AQC Der		125.05	2	3.87000	0.36157	0.48000	2	3.87000	0.36157	0.48000
Method Group 125.XX PCT			12	3.66806	0.28497	0.13133	12	3.66806	0.28497	0.13133
Glycine, Post-col Ninhydrin Der	994.12	126.00	9	1.02523	0.02828	0.01816	8	1.02339	0.02570	0.01043
Glycine, Pre-col AQC Der		126.05	1	1.00500	0.00707	0.01000	1	1.00500	0.00707	0.01000
Method Group 126.XX PCT			10	1.02321	0.02751	0.01734	9	1.02134	0.02492	0.01038
Histidine, Post-col Ninhydrin Der	994.12	127.00	9	0.54593	0.03503	0.01397	8	0.54667	0.03557	0.00821
Histidine, Pre-col AQC Der		127.05	2	0.55350	0.04479	0.04500	2	0.55350	0.04479	0.04500
Method Group 127.XX PCT			11	0.54730	0.03590	0.01961	10	0.54804	0.03638	0.01557
Isoleucine, Post-col Ninhydrin Der	994.12	128.00	10	0.81059	0.06266	0.01397	10	0.81059	0.06266	0.01397
Isoleucine, Pre-col AQC Der		128.05	2	0.84400	0.07150	0.04600	2	0.84400	0.07150	0.04600
Method Group 128.XX PCT			12	0.81615	0.06381	0.01931	12	0.81615	0.06381	0.01931
Leucine, Post-col Ninhydrin Der	994.12	129.00	10	1.67981	0.05972	0.03206	10	1.67981	0.05972	0.03206
Leucine, Pre-col AQC Der		129.05	2	1.70750	0.05123	0.02500	2	1.70750	0.05123	0.02500
Method Group 129.XX PCT			12	1.68443	0.05831	0.03088	12	1.68443	0.05831	0.03088
L-Lysine, Post-col Ninhydrin Der	994.12	130.00	10	1.32726	0.02983	0.02438	10	1.32726	0.02983	0.02438
L-Lysine, Pre-col AQC Der		130.05	5	1.36800	0.12515	0.12000	5	1.36800	0.12515	0.12000
Method Group 130.XX PCT			15	1.34084	0.07632	0.05625	15	1.34084	0.07632	0.05625
Methionine, PAO Post-col Ninhydrin Der	994.12	131.00	10	0.39603	0.03908	0.00870	9	0.39614	0.04099	0.00633
Methionine, PAO Post-col OPA Der		131.02	2	0.43125	0.02169	0.00150	2	0.43125	0.02169	0.00150
Methionine, PAO Pre-col AQC Der		131.05	4	0.38063	0.08705	0.02925	4	0.38063	0.08705	0.02925
Method Group 131.XX PCT			16	0.39658	0.05398	0.01294	15	0.39669	0.05567	0.01180
Phenylalanine, Post-col Ninhydrin Der .	994.12	132.00	9	0.97239	0.04853	0.02189	9	0.97239	0.04853	0.02189
Phenylalanine, Pre-col AQC Der		132.05	2	0.97575	0.04580	0.04950	2	0.97575	0.04580	0.04950
Method Group 132.XX PCT			11	0.97300	0.04699	0.02691	11	0.97300	0.04699	0.02691
Proline, Post-col Ninhydrin Der	994.12	133.00	9	1.23163	0.05204	0.04216	9	1.23163	0.05204	0.04216
Proline, Pre-col AQC Der		133.05	2	1.24250	0.04193	0.04500	2	1.24250	0.04193	0.04500
Method Group 133.XX PCT			11	1.23361	0.04962	0.04267	11	1.23361	0.04962	0.04267

Feed Check Sample No. - 200928 Senior Pig Starter, Medicated
 Association of American Feed Control Officials

- Pass 1 Results for 210 Labs - - Pass 2 Results for 209 Labs -

Method	AOAC 18th	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Serine, Post-col Ninhydrin Der	994.12	134.00	9	0.98505	0.05478	0.01868	9	0.98505	0.05478	0.01868
Serine, Pre-col AQC Der		134.05	2	1.09750	0.04787	0.03500	2	1.09750	0.04787	0.03500
Method Group 134.XX PCT			11	1.00550	0.06875	0.02165	11	1.00550	0.06875	0.02165
Threonine, Post-col Ninhydrin Der	994.12	135.00	10	0.88906	0.03563	0.02070	9	0.88284	0.02942	0.01522
Threonine, Pre-col AQC Der		135.05	2	0.91550	0.01063	0.01700	2	0.91550	0.01063	0.01700
Method Group 135.XX PCT			12	0.89347	0.03413	0.02008	11	0.88878	0.02972	0.01555
Tryptophan, Alka-Hydrol Post-col Ninhyd	988.15	136.00	1	0.26050	0.01202	0.01700	1	0.26050	0.01202	0.01700
Tryptophan, Alka-Hydrol Rev Phase LC UV		136.01	5	0.25295	0.02024	0.00710	4	0.25188	0.02185	0.00275
Tryptophan, Misc		136.99	1	0.25000	0.01414	0.02000	1	0.25000	0.01414	0.02000
Method Group 136.XX PCT			7	0.25361	0.01788	0.01036	6	0.25300	0.01865	0.00800
Tyrosine, Post-col Ninhydrin Der	994.12	137.00	7	0.67219	0.06276	0.03414	7	0.67219	0.06276	0.03414
Tyrosine, Pre-col AQC Der		137.05	2	0.59425	0.10692	0.03950	2	0.59425	0.10692	0.03950
Method Group 137.XX PCT			9	0.65487	0.07836	0.03533	9	0.65487	0.07836	0.03533
Valine, Post-col Ninhydrin Der	994.12	138.00	10	0.95521	0.04610	0.01585	10	0.95521	0.04610	0.01585
Valine, Pre-col AQC Der		138.05	2	0.97750	0.09710	0.02300	2	0.97750	0.09710	0.02300
Method Group 138.XX PCT			12	0.95892	0.05529	0.01704	12	0.95892	0.05529	0.01704
Taurine, Post-col Ninhydrin Der	994.12	139.00	1	0.05000	0.02828	0.04000	1	0.05000	0.02828	0.04000
Lysine, Free (Available)	975.44	140.00	1	1.37500	0.03536	0.05000	1	1.37500	0.03536	0.05000
Phytase,		150.00	3	1034.83	122.110	61.3333	3	1034.83	122.110	61.3333
Phytase, Misc.		150.99	3	901.000	99.4485	90.0000	3	901.000	99.4485	90.0000
Method Group 150.XX			6	967.917	127.114	75.6667	6	967.917	127.114	75.6667

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
-- Method 000.03 --			-- Method 001.07 --			-- Method 001.08 --			-- Method 002.01 --			-- Method 002.05 --		
861	1.7550	.71	171	11.195	.86	590	10.735	.71	652	21.450	.48	Avg	21.363	
			187	11.195	.84				723	21.445	.41	651	21.354	-.05
-- Method 000.99 --			049	11.075 R	.80	-- Method 001.99 --			Avg	21.348		596	21.350	-.19
265	0.1950	.71	199	11.180	.79	405	11.680	1.31	848	21.335	-.06	722	21.278	-.52
			559	11.120	.71	787	11.600	1.22	716	21.250	-.46	620	21.210	-.56
-- Method 001.00 --			607	11.125	.62	681	11.480	.98	653	21.125	-.95	674	21.300	-.59
596	12.750 S	1.79	695	11.095	.52	505	11.380	.82	098	20.850	-2.10	855	21.210	-.67
001	12.230	1.20	089	11.070	.44	729	11.285	.65				552	21.210	-.76
504	11.625	.58	843	11.030	.42	357	11.275	.64	-- Method 002.02 --			039	21.143	-.86
844	11.475	.35	098	11.050	.40	631	11.135	.41	297	21.940	1.32	177	21.030	-1.23
169	11.330	.18	669	11.045	.38	037	11.060	.28	669	21.745	.90	658	21.135	-1.28
Avg	11.019		609	11.000	.21	629	11.050	.28	169	21.595	.78	178	21.350 R	-1.28
861	11.085	-.12	Avg	10.935		720	11.030	.27	152	21.495	.40	621	20.865	-1.82
784	11.075	-.14	035	10.925	-.06	665	10.945	.10	Avg	21.319		852	19.850 s	-5.56
309	11.110	-.18	413	10.900	-.11	Avg	10.890		036	21.288	-.08			
029	10.650	-.60	571	10.900	-.12	630	10.830	-.10	043	21.305	-.32	-- Method 002.06 --		
509	9.8600	-1.51	226	10.850	-.32	676	10.735	-.26	033	21.125	-.42	511	23.070 s	4.09
560	9.7500	-1.63	689	10.900	-.34	096	10.650	-.57	307	21.100	-.46	018	22.970 s	3.75
			083	10.825	-.36	619	10.450	-.73	042	20.280	-2.16	609	22.755	3.10
-- Method 001.03 --			015	10.815	-.40	853	10.225	-1.13				737	22.735 A	3.05
688	11.000	1.03	065	10.800	-.44	615	10.170 R	-1.39	-- Method 002.04 --			032	22.600	2.65
686	10.940	.98	693	10.780	-.50	722	9.7499	-1.89	509	22.765	1.90	734	22.475	2.29
567	11.000	.81	588	10.745	-.63	541	9.4600	-2.37	504	21.640	.42	660	22.445	2.24
Avg	10.872		177	10.690	-.80				187	21.460	.16	001	22.165 R	1.97
868	10.775	-.62	297	10.645	-.94	-- Method 002.00 --			596	21.350	.07	546	22.295	1.74
867	10.830	-.98	353	10.565	-1.19	845	23.020	1.99	Avg	21.344		574	22.200	1.42
731	10.685	-1.21	679	10.550	-1.25	869	21.775	.04	405	21.000	-.47	755	22.190	1.41
727	9.0235 S	-11.70	366	10.800 R	-1.36	Avg	21.756		868	20.960	-.52	171	22.150	1.34
			178	10.350 R	-2.05	028	21.680	-.12	728	20.235	-1.48	673	22.150	1.27
-- Method 001.05 --			307	10.250 R	-2.35	015	21.600	-.26				263	22.150	1.26
610	10.920	.00	591	10.205	-2.38	199	21.300	-.72	-- Method 002.05 --			780	22.140	1.24
			675	10.000	-3.02	679	21.160	-.96	622	21.769	1.53	035	22.105	1.13
-- Method 001.07 --			616	9.2400 A	-5.47	864	20.075 S	-2.67	856	21.775	1.53	822	22.070	1.04
142	11.450	1.67	038	9.2725 s	-5.54				591	21.760	1.45	357	22.065	1.03
581	11.270	1.09	845	8.9400 s	-7.45	-- Method 002.01 --			401	21.740	1.38	205	22.050	1.01
550	11.253	1.04	074	7.7300 s	-10.34	607	21.643	1.24	194	21.545	.67	098	22.050	.97
592	11.255	1.04	618	7.0815 s	-12.55	043	21.580 R	1.10	689	21.450	.37	175	22.050	.97
139	11.225	.94				350	21.542	.81	083	21.395	.23	265	22.050	.97
045	11.200	.91				731	21.490	.60	354	21.380	.06	616	22.010	.97

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 002.06	--	--	Method 002.06	--	--	Method 002.06	--	--	Method 002.10	--	--	Method 002.99	--
630	21.975	.96	164	21.790	.18	693	21.440	-.90	727	22.015 R	1.87	643	21.955	-.60
043	22.025	.92	650	21.780	.17	119	21.480	-.98	121	21.952	1.43	003	21.725	-1.24
571	21.999	.92	100	21.755	.13	407	21.440	-1.00	861	21.750	1.03			
108	22.025	.89	Avg	21.733		045	21.400	-1.01	629	21.695	.92	--	Method 003.00	--
541	21.910	.86	781	21.720	-.05	804	21.710 R	-1.03	688	21.550	.63	307	4.8500 s	5.10
413	22.000	.81	142	21.700	-.10	242	21.405	-1.03	546	21.515	.57	527	4.5600 S	3.63
029	21.990	.80	089	21.690	-.13	510	21.400	-1.05	619	21.500	.53	142	4.3000	2.35
168	21.980	.79	199	21.725	-.14	646	21.575 R	-1.09	596	21.350	.25	596	4.1650	1.70
504	21.755	.78	106	21.700	-.16	596	21.350	-1.17	Avg	21.238		848	4.1450	1.59
784	21.940	.74	588	21.695	-.20	226	21.350	-1.17	628	21.220	-.13	132	3.8400 R	1.08
590	21.975	.74	298	21.660	-.22	021	21.380	-1.17	160	21.110	-.40	039	3.9571	.91
014	21.860	.69	619	21.650	-.29	037	21.360	-1.22	867	20.950	-.59	726	3.9695	.73
592	21.950	.68	712	21.715	-.32	027	21.330	-1.23	675	20.715	-1.05	354	3.9450	.61
366	21.800	.64	512	21.715	-.35	138	21.325	-1.25	631	20.445	-1.59	190	3.9250	.55
013	21.900	.61	034	21.615	-.37	036	21.300	-1.31	729	20.345	-1.82	139	3.8650	.23
160	21.865	.55	006	21.600	-.42	676	21.360	-1.36				106	3.8600	.20
505	21.900	.52	589	21.605	-.42	026	21.285	-1.38	--	Method 002.11	--	175	3.8250	.17
865	21.895	.49	017	21.680	-.43	746	21.275	-1.39	032	22.800 s	5.47	563	3.8322	.05
233	21.890	.49	626	21.620	-.44	559	21.315	-1.40	720	21.580	2.24	164	3.8250	.03
817	21.890	.49	853	21.670	-.44	132	21.230	-1.53	727	20.991	.74	Avg	3.8214	
843	21.795	.48	760	21.610	-.48	720	21.225	-1.54	679	21.000	.73	152	3.8000	-.11
726	21.887	.47	610	21.600	-.50	083	21.190	-1.64	867	20.965	.61	509	3.8000	-.11
144	21.875	.44	674	21.560	-.52	615	21.360 R	-1.72	688	20.950	.58	035	3.8000	-.12
670	21.845	.41	358	21.565	-.55	010	21.115	-1.88	567	20.800	.31	512	3.7770	-.23
787	21.735	.41	019	21.555	-.55	527	21.105	-1.92	Avg	20.738		017	3.7800	-.32
695	21.865	.40	139	21.550	-.55	004	21.035	-2.12	731	20.715	-.13	015	3.7150	-.53
687	21.850	.39	074	21.600	-.56	539	21.010	-2.24	713	20.655	-.24	309	3.6550	-1.02
866	21.850	.39	047	21.550	-.57	011	21.615 R	-2.47	628	20.625	-.32	026	3.5850	-1.17
065	21.860	.39	148	21.535	-.60	567	20.950 s	-2.90	631	20.585	-.60	615	3.5750	-1.23
190	21.855	.39	096	21.545	-.60	042	20.605 s	-3.42	588	20.685	-.61	194	3.5650	-1.26
771	21.825	.38	229	21.540	-.60	692	19.350 s	-7.26	553	20.325	-1.12	027	3.5385	-1.45
038	21.845	.38	354	21.530	-.62				178	20.300	-1.41	032	3.6000 R	-1.46
294	21.855	.37	598	21.525	-.64	--	Method 002.08	--	011	20.150	-1.57	353	3.5100	-1.53
425	21.830	.30	550	21.718	-.68	610	21.750	1.26	665	19.280 S	-3.87	616	2.9500 A	-4.28
809	21.780	.26	529	21.505	-.70	062	21.609	.88						
573	21.790	.23	520	21.595	-.75	Avg	21.243		--	Method 002.99	--	--	Method 003.01	--
823	21.800	.20	682	21.460	-.83	208	21.150	-.25	305	22.250	1.14	504	3.6300	.71
016	21.800	.20	049	21.450	-.86	563	21.000	-.58	681	22.160	.54			
618	21.781	.20	353	21.495	-.86	309	20.705	-1.32	Avg	22.023				

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 003.06	--	--	Method 003.09	--	--	Method 003.10	--	--	Method 003.13	--	--	Method 003.99	--
658	4.6900 s	4.40	350	3.7745	.25	679	3.5100	-.59	646	3.8500	.86	546	3.1900	-1.63
852	4.4400 s	3.41	505	3.7450	.24	242	3.4900	-.66	205	3.7600	.53			
074	4.1300	2.02	Avg	3.7240		573	3.5250	-.74	028	3.6650	.30	--	Method 004.00	--
869	4.0200	1.53	590	3.6500	-.36	098	3.4850	-.80	187	3.6850	.26	353	4.5250 s	7.25
511	3.9550	1.25	038	3.6450	-.41	089	3.4550	-.96	Avg	3.6150		015	4.0450 s	5.46
688	3.9000	1.01	510	3.6500	-.44	695	3.4550	-1.11	660	3.1150	-1.82	226	3.3500	2.34
689	3.8500	.83	673	3.6000	-.61	728	3.4050	-1.39				511	3.2500 R	2.18
588	3.8400	.77	121	3.5900	-.79	868	3.4050	-1.41	--	Method 003.14	--	171	3.0200	1.18
559	3.6850 R	.71	723	3.5450	-.88	298	3.3500	-1.87	049	4.5000 s	4.43	354	3.0600	1.12
294	3.7600	.41	013	3.5450	-.94	720	2.7700 s	-6.86	413	3.9500	2.02	169	3.0400	1.03
552	3.7400	.33	263	3.5100	-1.05	591	2.3700 s	-10.31	019	3.7100	1.03	190	3.0100	.92
148	3.6850	.11	675	3.5100	-1.05				520	3.6500	.79	425	3.0000	.86
Avg	3.6640		358	3.5400 R	-1.20	--	Method 003.11	--	108	3.5300	.72	596	2.9500	.69
682	3.6200	-.19	674	3.4400 R	-1.51	720	4.2000	2.55	598	3.6100	.58	559	2.9250	.55
169	3.6150	-.21	001	3.1900	-2.62	553	3.9650	1.05	581	3.5200	.50	175	2.9200	.54
199	3.6150	-.21				178	3.9000	.63	567	3.5000	.44	298	2.9100	.49
669	3.6200	-.29	--	Method 003.10	--	713	3.8400	.36	529	3.5300	.20	509	2.8900	.41
425	3.5850	-.34	609	4.6150 s	9.04	631	3.8250	.18	Avg	3.4845		194	2.8450	.22
621	3.5600	-.46	618	4.2755 s	6.14	Avg	3.8008		021	3.4650	-.09	510	2.8000	.03
867	3.5500	-.53	366	3.9500 s	3.55	032	3.8000	-.01	144	3.4400	-.21	Avg	2.7933	
731	3.5050	-.69	619	3.7800	1.84	567	3.8000	-.01	175	3.3300	-.70	681	2.7650	-.13
083	3.4850	-.82	676	3.7350	1.71	011	3.8000	-.01	686	3.1950	-1.26	309	2.7650	-.22
305	3.5150 R	-.84	623	3.7279	1.39	867	3.7900	-.09	407	3.1750	-1.34	199	2.7250	-.30
229	3.4250	-1.03	160	3.6750 R	1.36	679	3.7350	-.42	550	3.1775	-1.57	563	2.7000	-.40
297	3.3350	-1.41	233	3.6850	1.03	628	3.6850	-.77	853	2.7650 S	-3.14	726	2.6585	-.56
574	3.1500	-2.21	629	3.6800	1.01	727	3.6560	-.93	265	2.1500 s	-5.87	034	2.5750	-.91
618	1.7900 s	-8.06	178	3.6000	.91	731	3.6650	-.99				164	2.5500	-1.04
			045	3.6550	.80	688	3.5500	-1.64	--	Method 003.99	--	695	2.5350	-1.10
--	Method 003.09	--	062	3.6440	.74	665	3.5550 R	-2.22	681	4.8200 s	4.50	042	2.5250	-1.12
226	4.0500	1.62	100	3.6350	.59	588	3.3550 s	-3.00	727	4.1000	1.85	855	2.4700	-1.35
651	3.9610	1.16	042	3.6150	.57				631	3.8650	.99	504	2.4700	-1.51
722	3.9510	1.11	693	3.6250	.51	--	Method 003.12	--	003	3.6600	.56	132	2.3750	-1.76
653	3.9500	1.11	865	3.5700	.26	864	4.1100	1.46	047	3.6500	.26	208	2.4850 R	-1.84
029	3.9300	1.01	Avg	3.5662		670	3.8650	.25	Avg	3.5990				
004	3.9000	.87	208	3.5400	-.23	Avg	3.8175		861	3.5450	-.24	--	Method 004.01	--
098	3.8400	.59	034	3.5400	-.23	171	3.6700	-.70	737	3.5550	-.32	366	4.4500 S	4.49
620	3.8069	.52	119	3.5350	-.27	628	3.6250	-.91	630	3.4700	-.48	693	3.5050	.71
354	3.8200	.47	607	3.5394	-.37	357	2.6500 S	-5.51	712	3.4700	-.79	Avg	3.5050	
033	3.7650	.26	855	3.5350	-.55				787	3.4850	-1.03			

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
-- Method 004.03 --			-- Method 004.06 --			-- Method 004.07 --			-- Method 005.00 --			-- Method 005.00 --		
045	3.1550	1.02	867	2.3200	-2.23	032	2.4000	-1.29	539	5.5150	2.11	353	5.3250	.66
Avg	3.0100					160	2.4000	-1.29	591	5.4900	1.92	590	5.3200	.64
619	2.8650	-.68	-- Method 004.07 --			413	2.4000	-1.33	679	5.4700	1.78	845	5.3200	.63
			407	3.4750	2.30	242	2.3600	-1.42	401	5.4450	1.60	588	5.3200	.63
-- Method 004.06 --			019	3.2750 R	1.87	100	2.1000	-2.33	619	5.4450	1.58	682	5.3200	.63
728	3.8450	2.59	643	3.3300	1.82	-- Method 004.11 --			720	5.4250	1.45	723	5.3150	.59
676	3.7250	2.22	864	3.2400 R	1.73	011	4.5000 S	4.41	132	5.4200	1.42	623	5.2432	.55
621	3.4000	1.18	096	3.2500	1.56	032	4.4000 S	4.13	504	5.4000	1.31	038	5.3050	.51
038	3.3100	.96	028	3.2000	1.42	727	3.5012	1.69	307	5.3750 R	1.27	688	5.3000	.47
029	3.3300	.95	004	3.1750	1.30	731	3.3850	1.39	407	5.3950	1.24	178	5.3000	.47
609	3.3000	.87	592	3.1550	1.27	628	3.1900	.86	592	5.4000	1.24	242	5.2800	.44
845	3.2500	.78	610	3.0500	.90	679	3.1450	.73	716	5.4000	1.23	607	5.2912	.44
716	3.2500	.72	089	3.0400	.85	567	3.1000	.61	265	5.4000	1.23	643	5.2600	.42
722	3.2332	.65	581	2.9700	.75	Avg	2.8770		357	5.4000	1.23	771	5.2900	.40
098	3.2100	.64	679	3.0000	.71	688	2.8500	-.15	622	5.3988	1.23	712	5.2850	.38
869	3.1650	.51	631	2.9400	.56	713	2.8200	-.15	784	5.3950	1.21	629	5.2850	.36
512	3.1280	.41	669	2.8900	.40	553	2.7750	-.28	865	5.2950 R	1.18	065	5.2850	.36
588	3.1350	.34	026	2.8650	.29	720	2.7500	-.37	869	5.3900	1.18	746	5.2750	.31
354	3.1250	.31	520	2.8250	.22	588	2.7850 R	-.61	510	5.3850	1.12	822	5.2600	.28
027	3.1050	.25	646	2.8250	.14	178	2.6000	-.80	148	5.3750	1.05	653	5.2550	.23
673	3.0500	.17	144	2.7950	.03	867	2.5750	-.82	660	5.3750	1.04	035	5.2650	.21
205	3.0400	.05	033	2.7950	.03	631	2.5300	-.94	029	5.3650	1.03	062	5.2465	.18
Avg	3.0272		Avg	2.7861		665	2.1800	-1.89	695	5.3700	1.02	868	5.2500	.18
848	3.0050	-.13	229	2.7650	-.09	-- Method 004.99 --			669	5.3700	1.01	559	5.2550	.14
350	2.9545	-.23	013	2.7750	-.12	856	13.150 s	32.67	350	5.3655	.98	045	5.2550	.14
723	2.9200	-.34	098	2.7650	-.17	626	3.3200	1.78	693	5.3650	.97	631	5.2400	.08
620	2.9044	-.41	074	2.7500	-.18	Avg	2.8060		294	5.3650	.97	Avg	5.2377	
675	2.8900	-.46	021	2.7400	-.20	598	2.7950	-.04	413	5.3500	.93	187	5.2300	-.06
590	2.9400	-.57	035	2.7200	-.22	628	2.7250	-.26	731	5.3600	.93	119	5.2200	-.15
688	2.8500	-.58	505	2.7650	-.29	629	2.6950	-.35	722	5.3582	.92	298	5.2200	-.15
866	2.8100	-.69	529	2.6550	-.44	003	2.4950	-1.07	567	5.3000 R	.90	199	5.2200	-.15
689	2.8000	-.78	567	2.7500	-.51	-- Method 005.00 --			229	5.3300	.88	686	5.2200	-.20
670	2.7600	-.84	682	2.6000	-.62	852	5.6000 R	2.86	004	5.3450	.84	354	5.2100	-.22
610	2.7500	-.89	686	2.6000	-.64	164	5.5750	2.56	621	5.3400	.83	675	5.2300	-.24
674	2.7350	-.96	265	2.6500	-.68	108	5.3600 R	2.39	729	5.3450	.82	553	5.2150	-.26
607	2.7205	-.97	042	2.5800	-.69	226	5.5000 R	2.13	505	5.3350	.74	760	5.2000	-.29
868	2.7200	-1.02	708	2.5500	-.79				552	5.3250	.71	142	5.2000	-.29
178	2.6500	-1.28	294	2.5150	-.90				171	5.3250	.67	596	5.2000	-.29
731	2.5950	-1.37	307	2.4500	-1.23				589	5.3250	.66	152	5.2000	-.29

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 005.00	--	--	Method 005.00	--	--	Method 005.11	--	--	Method 008.08	--	--	Method 009.07	--
366	5.2000	-.29	615	5.0800	-1.20	727	5.3404	-1.39	106	4.7250	1.75	693	10.485	-.33
676	5.2350	-.42	848	5.0800	-1.20	720	3.4800 s	-11.59	001	4.6650	1.62	038	10.085	-.70
620	5.1950	-.42	541	5.0700	-1.27				354	4.6250	1.49	353	9.6300	-.93
098	5.2150	-.45	175	5.0650	-1.33	--	Method 005.99	--	033	4.4000 R	1.43	675	9.2300	-1.31
674	5.2150	-.45	208	5.0550	-1.39	727	5.8690 s	6.16	693	4.4650	1.09	098	9.1300	-1.44
100	5.2100	-.50	026	5.0450	-1.46	574	5.4650	1.62	049	4.2700	.61			
083	5.1750	-.51	817	5.0550	-1.47	866	5.4000	.59	592	4.2100	.52	--	Method 009.09	--
529	5.1750	-.51	670	5.0400	-1.50	652	5.4000	.59	083	4.1850	.49	083	11.270	1.61
734	5.1650	-.56	169	5.0300	-1.58	673	5.4000	.59	037	4.1650	.36	592	11.115	1.34
630	5.1650	-.56	609	5.0250	-1.63	096	5.3500	.53	864	4.0500	.35	510	10.950	1.10
661	5.1600	-.61	309	4.9850	-1.93	Avg	5.3439		646	4.1550	.32	160	10.910	1.05
755	5.1550	-.66	853	4.9300	-2.36	728	5.3200	-.27	357	4.0500	.14	265	10.600 R	.94
121	5.1450	-.71	049	4.9250	-2.38	681	5.2600	-.89	Avg	4.0236		037	10.690	.74
550	5.1450	-.74	864	4.8950 R	-2.68	546	5.3050	-1.08	026	3.9750	-.12	294	10.625	.61
855	5.1350	-.78	658	4.8650 R	-2.90	861	5.1950	-1.59	358	3.9700	-.20	646	10.240	.30
598	5.1350	-.79	856	4.7800 A	-3.48	628	4.4150 s	-9.77	164	3.9500	-.22	357	10.250	.09
650	5.1400	-.80	618	4.7241 s	-3.90				581	3.7600	-.70	Avg	10.215	
021	5.2000 R	-.81	780	4.7250 s	-4.09	--	Method 008.02	--	004	3.7400	-.71	686	10.090	-.26
358	5.1350	-.85	804	4.6900 s	-4.18	527	5.2150	1.89	160	3.6950	-.84	106	9.9700	-.38
194	5.1250	-.86	297	4.4000 s	-6.41	187	4.8050	1.04	510	3.6500	-.93	049	10.140	-.50
563	5.1233	-.87				148	4.6700	.77	413	3.5500	-1.17	164	9.7000	-.78
689	5.1300	-.87	--	Method 005.01	--	353	4.6500	.72	686	3.3900	-1.57	581	9.4950	-1.08
138	5.1250	-.88	646	5.1900	.00	728	4.4350	.30	294	3.2500	-1.91	354	9.4300	-1.17
781	5.1200	-.92				226	4.4000	.29				413	9.3500	-1.31
520	5.1150	-.93	--	Method 005.02	--	Avg	4.3050		--	Method 008.99	--	864	9.2100	-1.58
015	5.1200	-.94	610	5.3600	.00	038	4.2300	-.24	307	4.9500	1.41			
089	5.1100	-.97				045	4.0650	-.60	610	4.5000	.07	--	Method 009.99	--
809	5.1100	-.97	--	Method 005.11	--	619	3.9950	-.64	Avg	4.4763		619	11.600	1.12
205	5.1060	-1.00	588	6.3300 S	4.13	309	3.9300	-.79	297	4.3800	-.44	728	11.130	.23
160	5.1050	-1.04	867	6.0400 S	2.53	675	3.7550	-1.17	720	4.0750	-1.15	Avg	11.039	
139	5.1000	-1.05	688	6.0000 S	2.31	098	3.6100 R	-1.55				643	10.675	-.81
033	5.0950	-1.08	178	5.9000 S	1.76	405	3.5100	-1.65	--	Method 009.07	--	610	10.750	-1.24
001	5.0950	-1.09	679	5.7000	.69				307	12.250	1.59	720	6.7100 S	-8.63
027	5.0935	-1.10	731	5.6100	.27	--	Method 008.05	--	309	12.095	1.43			
144	5.0950	-1.12	631	5.6150	.23	265	4.2500	.71	045	11.250	.63	--	Method 010.03	--
305	5.0900	-1.12	628	5.6200	.21				187	11.005	.38	843	11.535	.85
651	5.0860	-1.16	Avg	5.5358					297	10.920	.35	Avg	10.933	
425	5.0850	-1.17	713	5.5150	-.37				Avg	10.603		027	10.330	-.88
616	5.0850	-1.18	665	5.3500	-1.30				226	10.550	-.07	618	8.6950 S	-3.10

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 010.03	--	--	Method 011.01	--	--	Method 011.01	--	--	Method 011.01	--	--	Method 012.04	--
546	8.5850 S	-3.26	108	13.980 s	4.45	511	12.010	.13	574	11.330	-1.39	106	37.900	1.74
			780	13.105 s	2.85	021	11.990	.09	294	11.290	-1.46	353	34.305	.13
--	Method 010.11	--	622	13.167	2.56	552	11.990	.09	660	11.120	-1.83	Avg	34.129	
567	11.300	2.14	623	12.941	2.08	175	12.000	.06	675	10.940	-2.21	160	33.595	-.25
867	11.045	.90	171	12.870	1.93	033	11.985	.03	653	10.905	-2.29	038	32.995	-.52
720	11.025	.88	865	12.760	1.69	350	11.979	.01	856	10.790	-2.54	510	31.850	-1.05
713	10.985	.73	242	12.705	1.57	Avg	11.974		407	10.775	-2.57			
665	10.945	.43	737	12.660	1.47	817	11.970	-.09	004	10.565 s	-3.02	--	Method 012.11	--
679	10.875	.18	596	12.550	1.24	194	11.925	-.11	160	9.3950 s	-5.52	727	38.336	1.74
Avg	10.861		541	12.535	1.20	226	11.950	-.12				713	37.345	.81
731	10.835	-.21	309	12.495 R	1.20	265	11.950	-.12	--	Method 011.99	--	Avg	36.499	
688	10.800	-.30	848	12.475	1.07	026	11.900	-.16	864	11.140	.71	178	36.200	-.30
628	10.780	-.40	559	12.435	1.00	354	11.880	-.20	--	Method 012.00	--	720	35.755	-.71
038	10.700	-.79	755	12.415	.96	843	11.870	-.26	689	39.600	1.81	679	35.730	-.73
178	10.700	-.93	205	12.405	.93	401	11.850	-.27	354	38.050	.53	731	35.625	-.83
727	10.693	-.96	804	12.400	.92	674	11.885	-.28	178	38.000	.49	--	Method 012.99	--
588	10.785 R	-1.39	746	12.375	.86	592	11.827	-.32	Avg	37.394		619	50.600 S	9.34
631	10.515	-1.70	164	12.360	.83	034	11.820	-.33	716	36.800	-.48	868	41.215	.88
			771	12.345	.80	100	11.815	-.39	559	36.800	-.54	Avg	40.278	
--	Method 010.99	--	728	12.315	.73	098	11.750	-.49	869	36.660	-.61	588	39.340	-.85
305	13.060 s	6.94	822	12.295	.71	682	11.740	-.50	567	35.850	-1.33	--	Method 013.02	--
673	11.200	1.45	823	12.300	.70	650	11.750	-.50				760	5.2800	1.36
652	11.150	1.31	573	12.290	.68	722	11.732	-.52	--	Method 012.01	--	643	5.2500	1.35
852	10.960	.74	809	12.200	.62	651	11.714	-.56	096	34.350	1.10	650	5.1050	.96
869	10.945	.71	734	12.230	.55	658	11.690	-.61	Avg	33.647		804	5.0600	.89
716	10.900	.56	144	12.200	.50	358	11.725	-.62	686	33.455	-.46	100	5.0800	.88
Avg	10.709		208	12.200	.48	298	11.680	-.63	676	33.135	-1.04	171	5.0500	.85
529	10.675	-.10	520	12.170	.48	620	11.681	-.65	--	Method 012.03	--	065	5.0350	.79
168	10.665	-.13	138	12.175	.43	646	11.695	-.72	723	37.850	1.40	809	5.0300	.78
032	10.700	-.30	553	12.155	.43	670	11.625	-.76	208	35.050	.08	843	5.0050	.71
527	10.470	-.71	589	12.110	.40	643	11.850 R	-.79	Avg	34.966		817	4.9450	.58
866	10.470	-.92	539	12.120	.35	229	11.570	-.87	297	34.115	-.41	164	4.8850	.50
628	10.200	-1.51	781	12.119	.33	723	11.900 R	-.87	098	32.850	-1.17	771	4.9100	.48
164	10.170	-1.60	132	12.115	.32	598	11.545	-.92				229	4.8900	.44
712	9.8100 R	-2.87	760	12.095	.29	563	11.556	-.92				734	4.8750	.40
			510	12.100	.27	062	11.550	-.96				553	4.8400	.36
			233	12.060	.27	855	11.510	-1.02				148	4.7550	.13
			148	12.040	.24	621	11.470	-1.08						
			119	12.035	.15	591	11.460	-1.10						

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 013.02	--	--	Method 013.11	--	--	Method 017.00	--	--	Method 019.01	--	--	Method 019.01	--
026	4.7200	.04	014	4.6525	.90	353	16.325	1.92	674	0.7900	1.14	233	0.6950	-1.38
Avg	4.7067		Avg	3.9763		021	14.550	1.13	014	0.7895	1.07	650	0.6850	-1.58
823	4.7000	-.02	866	3.3000	-.84	560	12.850	.52	152	0.7900	1.06	505	0.6750	-1.82
861	4.6300	-.19				Avg	12.306		529	0.7900	1.06	609	0.6700	-1.94
016	4.6200	-.31	--	Method 013.12	--	049	11.205	-.52	305	0.7850	.91	018	0.6530	-2.39
746	4.5450	-.38	720	4.3500	.93	045	11.300	-.54	720	0.7850	.91			
675	4.4950	-.50	731	4.0750	.32	358	11.000	-.63	263	0.7761	.68	--	Method 019.03	--
208	4.4450	-.63	Avg	3.9333		693	10.685	-.77	006	0.7700	.59	686	0.8300	1.24
856	4.4400	-.65	588	3.3750	-1.24	510	10.530	-.85	631	0.7650	.55	043	0.8150	.80
354	4.3850	-.76							354	0.7700	.53	033	0.7945	.41
755	4.1750	-1.27	--	Method 013.13	--	--	Method 017.99	--	731	0.7700	.53	Avg	0.7864	
855	4.1500 R	-1.47	843	5.0050	.63	307	12.450	.71	619	0.7695	.52	307	0.7800	-.33
033	4.0800	-1.48	Avg	4.8675					653	0.7660	.43	036	0.7740	-.34
853	4.0750 R	-1.57	581	4.7300	-1.05	--	Method 018.02	--	675	0.7550	.20	026	0.7250	-1.71
616	3.6600	-2.47				011	0.0575	.71	669	0.7555	.18			
780	3.6050	-2.60	--	Method 013.99	--				036	0.7535	.13	--	Method 019.05	--
			628	5.4750	1.15	--	Method 019.00	--	139	0.7495	.09	405	1.0200 s	9.50
--	Method 013.08	--	Avg	4.5600		194	7.8500 s	249.09	588	0.7515	.08	003	0.7900 s	2.62
591	5.1450	.71	689	4.5000	-.15	658	5.4230 s	163.90	722	0.7510	.06	168	0.7850	1.69
			592	3.7050	-1.08	552	0.9400 S	6.58	Avg	0.7485		098	0.7900	1.67
--	Method 013.10	--				681	0.8200 R	2.46	670	0.7440	-.12	598	0.7899	1.66
160	5.3300	2.07	--	Method 015.00	--	689	0.8000	1.66	205	0.7470	-.18	520	0.7900	1.63
843	5.0050	1.37	616	100.25 R	1.84	679	0.7600	.26	038	0.7405	-.26	265	0.7750	1.41
353	4.8450	1.11	520	95.500	1.41	621	0.7550	.19	563	0.7380	-.26	226	0.7750	1.23
652	4.6500	.64	154	92.000	1.13	623	0.7540	.07	723	0.7350	-.36	413	0.7750	1.23
716	4.5250	.42	169	81.300	.33	Avg	0.7527		178	0.7350	-.36	029	0.7706	1.06
177	4.4850	.35	560	79.400	.23	043	0.7500	-.10	026	0.7350	-.36	148	0.7635	.73
Avg	4.3499		164	78.000	.11	651	0.7515	-.10	307	0.7350	-.36	019	0.7600	.70
688	4.3000	-.10	Avg	76.852		620	0.6985	-1.90	350	0.7350	-.36	242	0.7550	.67
539	4.3000	-.20	353	76.650	-.10				504	0.7345	-.38	074	0.7600	.61
660	4.2650	-.20	049	72.270	-.35	--	Method 019.01	--	169	0.7300	-.52	512	0.7580	.55
673	4.2500	-.23	510	68.000	-.66	646	0.9500 s	5.14	065	0.7175	-.77	100	0.7550	.47
062	4.1985	-.32	021	48.550	-2.12	856	0.8220 R	1.93	035	0.7150	-.84	164	0.7500	.27
845	3.8750	-1.04				108	0.8200	1.84	175	0.7150	-.84	407	0.7450	.20
096	3.8250	-1.10	--	Method 016.00	--	868	0.8165	1.71	142	0.7350 R	-.93	011	0.7474	.18
610	3.8000	-1.17	619	0.0405	.71	596	0.8150	1.65	687	0.7100	-.95	Avg	0.7422	
591	3.5950	-1.58				010	0.8000	1.30	208	0.7055	-1.06	682	0.7400	-.07
						013	0.7970	1.21	612	0.7050	-1.08	004	0.7385	-.14
						628	0.7950	1.16	001	0.6970	-1.31	208	0.7405	-.23

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 019.05	--	--	Method 019.09	--	--	Method 020.01	--	--	Method 022.01	--	--	Method 022.03	--
083	0.7350	-.30	154	0.7573	.80	096	4.0000 s	4.75	689	156.60	2.36	682	142.00	.84
229	0.7300	-.54	106	0.7690	.79	011	2.5413	1.37	038	155.50	2.20	148	140.80	.74
298	0.7300	-.54	038	0.7485	.67	567	2.2250	.88	868	147.00	1.13	229	141.00	.74
294	0.7350	-.57	869	0.7530	.55	Avg	1.6117		350	147.00	1.12	865	140.80	.73
049	0.7250	-.61	186	0.7610	.53	154	1.6000	-.01	014	144.00	.90	425	140.20	.69
171	0.7250	-.61	366	0.7600	.49	171	0.9500	-.82	529	144.85	.88	520	136.00	.65
695	0.7250	-.61	016	0.7550	.33	560	0.7420	-1.08	722	142.41	.71	074	139.50	.59
297	0.7250	-.61	357	0.7450	.16	--	Method 020.99	--	720	142.16	.54	358	137.41	.55
865	0.7240	-.63	199	0.7490	.14	616	4.1150	.88	208	140.00	.27	083	136.50	.53
661	0.7210	-.72	Avg	0.7448		Avg	3.2775		035	138.50	.08	164	137.00	.35
358	0.7350	-.89	726	0.7427	-.07	675	2.4400	-.85	505	138.50	.08	297	136.00	.31
610	0.7150	-.94	616	0.7445	-.28	--	Method 021.01	--	716	138.50	.08	004	135.50	.19
026	0.7150	-.94	560	0.7370	-.30	619	137.50	-.10	Avg	138.15		610	135.00	.13
550	0.7105	-1.08	187	0.7350	-.32	722	3.0314 S	41.72	669	136.81	-.18	208	133.00	-.07
425	0.7100	-1.15	353	0.7350	-.36	628	2.8350 S	34.75	723	136.50	-.22	405	132.50	-.19
553	0.6995	-1.46	045	0.7320	-.66	Avg	1.3700		731	137.00	-.29	100	133.50	-.25
511	0.7000	-1.60	567	0.7350	-.87	619	1.3700	-.71	674	136.58	-.33	553	131.00	-.29
089	0.6800	-2.13	309	0.7185	-.88	--	Method 021.02	--	628	135.50	-.34	026	128.50	-.53
144	0.6450 s	-3.33	021	0.7125	-1.06	171	0.8500	1.93	856	138.00	-.38	003	130.00	-.55
--	Method 019.08	--	035	0.7100	-1.13	510	0.5150	.51	563	134.57	-.45	171	127.50	-.64
138	0.8245	1.59	572	0.7210	-1.21	106	0.5050	.46	175	138.00	-.51	695	124.75	-.91
673	0.7850	.62	693	0.7100	-1.30	011	0.4645	.29	178	133.00	-.65	242	124.50	-.93
629	0.7750	.38	848	0.7000	-1.48	011	0.4645	.29	675	129.51	-1.09	629	120.50	-1.33
Avg	0.7605		510	0.6900	-1.80	169	0.4200	.16	590	130.50	-1.12	049	120.94	-1.36
607	0.7537	-.18	096	0.7400 R	-1.95	154	0.4300	.15	588	129.00	-1.16	511	118.50	-1.54
590	0.7500	-.36	--	Method 019.99	--	038	0.4000	.02	354	129.90	-1.22	598	114.50	-1.94
689	0.7450	-.40	588	1.1255 S	6.74	Avg	0.3951		305	126.72	-1.45	550	110.64	-2.33
729	0.7500 R	-.79	864	0.8300	1.37	572	0.3340	-.26	307	124.00	-1.81	--	Method 022.05	--
848	0.6900	-1.76	047	0.8300	1.16	560	0.3155 R	-.46	646	119.43 R	-2.60	160	163.00	2.31
--	Method 019.09	--	Avg	0.7691		693	0.0320	-1.53	--	Method 022.03	--	186	160.50 R	2.07
037	0.9790 s	7.57	692	0.7550	-.28	616	0.0000	-1.66	226	153.00	1.95	187	158.39	1.74
160	0.8973 s	4.93	852	0.7650	-.29	--	Method 021.99	--	011	150.23	1.67	027	152.20	1.05
042	0.8115	2.18	665	0.7300	-.76	610	0.3810	.71	265	145.50 R	1.53	042	151.00	.85
027	0.7820	1.55	121	0.7045	-1.24	029	137.85 R	1.06	098	143.00	.96	038	151.00	.85
017	0.7900	1.50				098	143.00	.96	407	142.50	.89	096	150.00	.72
028	0.7800	1.14				407	142.50	.89	512	141.75	.84	413	149.00	.64
190	0.7700	.88				512	141.75	.84				560	149.00	.64

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 022.05	--	--	Method 025.01	--	--	Method 025.03	--	--	Method 025.05	--	--	Method 027.01	--
294	148.34	.52	720	306.95	.96	520	287.50	.53	Avg	269.79		065	0.2060	.41
190	146.60	.30	868	303.00	.81	049	287.69	.36	106	267.00	-.10	038	0.2045	.41
357	146.50	.30	563	293.38	.38	242	287.50	.35	413	269.00	-.31	Avg	0.2014	
199	144.50	.08	689	287.45	.35	229	287.00	.30	021	264.00	-.31	208	0.2005	-.09
Avg	144.13		038	289.50	.26	148	282.85	.20	154	264.50	-.41	628	0.2000	-.12
366	143.50	-.10	529	289.25	.21	Avg	281.75		726	257.60	-.42	722	0.1999	-.15
035	143.50	-.10	354	286.05	.14	164	280.00	-.15	560	249.50	-.73	504	0.2000	-.15
616	143.00	-.14	722	285.71	.14	695	279.00	-.38	169	238.00	-1.10	563	0.2003	-.20
353	142.15	-.24	208	284.50	.11	511	271.50	-.58	190	236.90	-1.14	619	0.1995	-.21
021	142.50	-.27	Avg	284.42		407	271.00	-.61	616	237.00	-1.15	263	0.1978	-.32
045	142.00	-.29	350	281.00	-.15	171	270.50	-.65	037	224.50	-1.58	856	0.1960	-.46
869	142.00	-.45	619	279.50	-.22	553	269.50	-.70	693	215.00	-1.91	307	0.1950	-.70
726	140.41	-.46	628	277.50	-.30	610	268.50	-.77	--	Method 025.99	--	035	0.1900	-.98
309	140.30	-.50	175	278.00	-.32	226	261.50	-1.18	121	284.85	1.03	175	0.1850	-1.48
037	139.50	-.57	675	276.13	-.36	026	259.00	-1.29	723	262.50	.17	588	0.1840	-1.50
572	142.50 R	-.58	731	269.00	-.69	598	258.00	-1.34	Avg	258.12		505	0.1800	-1.85
106	139.00	-.67	307	266.50	-.77	297	257.00	-1.41	692	227.00	-1.19	609	0.1800	-1.85
567	138.50	-.69	505	263.00	-.92	144	262.10 R	-1.57				720	0.1650 s	-3.18
510	133.50	-1.36	670	257.00	-1.17	405	251.50	-1.71	--	Method 026.00	--	--	Method 027.03	--
693	126.00	-2.21	716	240.00	-1.93	865	241.70	-2.26	154	0.1450	-.71	003	0.2400 S	2.64
154	126.00	-2.21	014	248.50 R	-2.12	003	176.00 s	-5.97				865	0.2335	2.11
169	119.00 s	-3.07	305	233.53	-2.20	168	175.50 s	-6.57	--	Method 026.99	--	682	0.2300	1.82
--	Method 022.99	--	--	Method 025.03	--	--	Method 025.05	--	619	0.3735	.88	520	0.2250	1.47
692	144.50	1.13	265	343.50 s	4.05	042	353.00	2.89	Avg	0.2274		405	0.2200 R	1.29
846	142.25	.51	074	309.50 R	1.85	096	285.00 R	1.65	011	0.0813	-.86	171	0.2170	.77
Avg	139.52		682	307.00	1.43	366	308.00	1.42	--	Method 027.01	--	144	0.2150	.72
121	137.05	-.90	098	298.50	1.21	038	302.00	1.12	868	0.2385 S	3.22	098	0.2150	.72
866	134.29	-1.08	011	302.32	1.18	045	291.50	.77	014	0.2265	2.17	598	0.2153	.62
--	Method 023.01	--	208	300.00	1.04	160	290.35	.73	014	0.2265	2.17	011	0.2127	.41
619	0.0010	.00	629	300.00	1.03	035	289.50	.69	650	0.2205	1.66	242	0.2100	.18
--	Method 025.01	--	083	299.00	.99	869	276.50	.28	305	0.2150	1.26	100	0.2100	.18
646	345.85 S	2.75	100	299.00	.99	199	276.50	.24	142	0.2100	.75	610	0.2100	.18
674	324.83	1.72	358	293.59	.94	567	273.50	.18	675	0.2100	.75	413	0.2100	.18
669	320.88	1.55	512	294.65	.83	309	273.35	.17	350	0.2100	.75	425	0.2100	.18
018	320.00	1.53	029	294.60	.77	187	272.61	.11	139	0.2092	.69	550	0.2090	.13
035	313.50	1.24	425	288.75	.76	353	271.65	.11	529	0.2050	.53	Avg	0.2067	
			550	294.11	.72	294	272.70	.10	169	0.2050	.53	208	0.2065	-.23
			004	291.50	.56	510	270.50	.03	018	0.2060	.44	029	0.2057	-.24

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 027.03	--	--	Method 027.05	--	--	Method 028.03	--	--	Method 028.05	--	--	Method 031.01	--
148	0.2045	-.33	187	0.1866	-1.09	550	106.68 s	3.14	726	99.455	1.28	658	0.7395 s	6.18
407	0.2025	-.43	154	0.1855	-1.24	682	102.00	2.20	106	99.150	1.24	646	0.6550	2.46
265	0.2050	-.47	096	0.1900 R	-1.41	003	100.00	1.90	567	95.500	.86	629	0.6550	2.46
226	0.2050	-.47	616	0.1820	-1.66	208	95.500	1.27	309	92.065 R	.80	679	0.6550	2.46
294	0.2000	-.63				100	96.500	1.11	042	95.250	.66	194	0.6450	2.03
229	0.2000	-.63	--	Method 027.99	--	297	95.500	.91	038	94.350	.66	621	0.6300 R	1.89
164	0.2000	-.63	692	0.1750	.71	358	94.635	.84	628	95.000	.63	674	0.6350	1.59
049	0.2000	-.63				098	95.000	.83	045	94.400	.52	867	0.6250	1.16
695	0.1980	-.80	--	Method 028.01	--	265	95.000	.83	357	94.000	.48	623	0.6216	1.01
026	0.1975	-.84	722	102.66	2.01	226	92.000	.63	035	94.000	.46	511	0.6150	.73
083	0.2000 R	-1.03	208	98.000	1.37	520	92.500	.58	572	92.500	.44	169	0.6150	.73
511	0.1950	-1.12	720	97.910	1.36	242	93.500	.51	560	93.250	.36	731	0.6150	.73
553	0.1935	-1.17	038	97.500	1.32	512	92.685	.48	096	92.000	.34	665	0.6150	.73
629	0.1920	-1.29	018	95.500	1.13	004	92.000	.20	413	93.150	.33	868	0.6120	.57
358	0.1900	-1.45	035	95.500	1.03	011	91.845	.18	021	91.800	.27	607	0.6091	.48
297	0.1900	-1.45	529	91.800	.66	Avg	90.990		366	91.500	.11	650	0.6000	.44
			619	91.800	.52	083	90.000	-.28	Avg	90.988		653	0.6040	.34
--	Method 027.05	--	731	90.750	.39	407	89.500	-.31	190	90.860	-.03	152	0.6050	.34
160	0.2208 s	3.18	563	90.035	.28	148	89.935	-.38	294	87.960	-.48	035	0.6050	.34
042	0.2150	2.46	669	89.090	.23	171	89.000	-.45	869	87.930	-.54	108	0.6050	.34
186	0.2080	1.59	Avg	87.948		229	88.500	-.51	187	86.925	-.62	722	0.6063	.32
869	0.2035	1.11	856	87.500	-.09	405	88.500	-.51	037	87.050	-.63	620	0.6023	.26
560	0.2015	.89	675	87.850	-.10	553	88.150	-.57	510	86.500	-.68	651	0.6040	.25
357	0.2000	.58	588	86.500	-.21	610	88.500	-.58	616	86.150	-.77	139	0.6025	.16
693	0.2000	.58	505	86.000	-.30	074	89.500	-.58	154	84.500	-1.05	018	0.6000	.10
366	0.2000	.58	723	85.500	-.33	029	88.545	-.70	353	84.115	-1.08	142	0.6000	.04
199	0.1990	.48	590	87.500	-.35	164	87.500	-.71	629	83.000	-1.21	687	0.6000	.04
106	0.1960	.15	868	86.650	-.38	425	87.450	-.72	169	77.450	-2.05	178	0.6000	.04
Avg	0.1953		178	84.000	-.55	598	86.500	-1.03	693	75.950	-2.30	Avg	0.5991	
038	0.1940	-.30	674	87.930 R	-.58	049	87.505	-1.10				263	0.5983	-.03
309	0.1929	-.31	646	83.725	-.59	026	82.500	-1.70	--	Method 028.99	--	619	0.5985	-.11
353	0.1950	-.62	629	83.500	-.61	144	82.400 R	-1.98	846	93.030	1.12	036	0.5955	-.19
021	0.1950	-.62	307	82.300	-.77	695	79.460	-2.31	121	90.750	.38	588	0.5945	-.20
572	0.1950	-.62	689	79.750	-1.11	511	0.8000 s	-18.04	Avg	89.143		626	0.5950	-.28
035	0.1900	-.66	175	77.000	-1.50				692	83.650	-1.04	026	0.5950	-.28
567	0.1900	-.66	354	74.320	-1.86	--	Method 028.05	--				354	0.5950	-.28
510	0.1900	-.66	350	74.000	-1.90	160	105.90 R	2.40				233	0.5950	-.28
037	0.1905	-.68	305	61.765 S	-3.56	027	103.47	1.89				669	0.5940	-.34
045	0.1875	-1.02	014	50.500 s	-5.09	186	101.50	1.68				675	0.5900	-.40

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
-- Method 031.01 --			-- Method 031.05 --			-- Method 031.05 --			-- Method 031.99 --			-- Method 032.02 --		
596	0.5900	-.40	405	0.7150 s	5.44	848	0.5850	-.23	852	0.7150 S	2.07	665	1.0250	1.16
670	0.5900	-.40	160	0.6972 s	4.69	366	0.5850	-.23	631	0.6950 S	1.70	590	1.0150	.98
350	0.5900	-.40	726	0.6433	2.40	049	0.5850	-.23	864	0.6600 S	1.39	Avg	0.9557	
001	0.5885	-.47	353	0.6350 R	2.30	190	0.5850	-.23	729	0.6300	.58	169	0.9500	-.19
728	0.5900	-.59	265	0.6250 R	1.94	358	0.5800	-.29	673	0.6100	.20	588	0.9085	-.77
723	0.5850	-.66	028	0.6300	1.83	098	0.5800	-.29	552	0.6050	.14	108	0.8800	-1.25
305	0.5850	-.66	598	0.6291	1.79	019	0.5800	-.29	Avg	0.5825				
175	0.5850	-.66	208	0.6280	1.78	298	0.5800	-.51	590	0.5950	-.11	-- Method 032.05 --		
848	0.5800	-.84	168	0.6235	1.63	695	0.5750	-.55	692	0.5350	-1.12	226	1.1200 s	5.00
039	0.5757	-1.03	003	0.6200	1.41	229	0.5750	-.55	047	0.5200	-1.39	160	1.0979 s	4.27
205	0.5760	-1.04	096	0.6100 R	1.30	242	0.5750	-.55	-- Method 032.01 --			695	1.0500 A	2.92
065	0.5740	-1.10	628	0.6100	1.07	121	0.5730	-.59	529	1.3950 s	9.61	682	1.0200	1.82
563	0.5723	-1.22	512	0.6116	1.05	100	0.5850	-.64	175	1.0250	1.49	265	1.0100	1.64
529	0.5700	-1.28	572	0.6005	.94	297	0.5700	-.71	619	1.0200	1.44	560	1.0100	1.51
016	0.5700	-1.28	004	0.6075	.88	164	0.5700	-.71	208	1.0210	1.40	042	1.0100	1.51
038	0.5660	-1.45	610	0.6050	.80	045	0.5740	-.75	856	1.0100	1.18	413	1.0100	1.51
622	0.5596	-1.74	226	0.6050	.80	553	0.5735	-.78	720	1.0000	.97	869	1.0050	1.42
609	0.5450	-2.38	520	0.6050	.80	199	0.5685	-.79	868	0.9940	.82	572	1.0000	1.24
689	0.5000 s	-4.35	042	0.6050	.77	187	0.5642	-.96	205	0.9905	.77	610	0.9900	.94
-- Method 031.02 --			021	0.5950	.72	017	0.5650	-1.12	675	0.9750	.42	096	0.9850	.87
043	0.6000	.92	074	0.6000	.70	035	0.5600	-1.14	098	0.9600	.23	520	0.9800	.85
Avg	0.5956		560	0.6005	.61	144	0.5600	-1.14	307	0.9650	.21	358	0.9650	.79
011	0.5926	-.65	038	0.6010	.60	510	0.5600	-1.22	350	0.9650	.21	021	0.9795	.78
505	0.5950	-1.06	106	0.6005	.59	294	0.5600	-1.22	065	0.9625	.19	242	0.9850	.75
013	0.5950	-1.06	407	0.6000	.56	693	0.5600	-1.22	038	0.9605	.17	083	0.9750	.63
014	0.5775 s	-7.09	567	0.5900	.44	550	0.5525	-1.48	Avg	0.9565		366	0.9650	.48
-- Method 031.03 --			425	0.5900	.44	154	0.5547 R	-1.64	563	0.9557	-.03	148	0.9755	.46
033	0.6195	1.27	171	0.5900	.44	089	0.5400	-1.99	035	0.9550	-.11	567	0.9750	.44
720	0.6050	.91	029	0.5963	.44	309	0.5380	-2.07	650	0.9400	-.56	229	0.9750	.44
504	0.6065	.77	083	0.5950	.41	616	0.5275	-2.52	305	0.9350	-.57	199	0.9730	.35
026	0.5950	.36	413	0.5950	.41	037	0.5030 s	-3.58	505	0.9150	-1.05	106	0.9655	.35
036	0.5925	.20	869	0.5945	.34	-- Method 031.06 --			142	0.8950	-1.34	Avg	0.9617	
Avg	0.5876		148	0.5940	.31	686	0.6100	1.10	628	0.8950	-1.34	011	0.9571	-.15
043	0.5750	-.54	682	0.5900	.13	Avg	0.5900		609	0.8900	-1.44	297	0.9550	-.26
208	0.5520	-1.41	661	0.5875	.03	138	0.5700	-.55	139	0.8855	-1.54	100	0.9600	-.32
307	0.5550	-1.42	Avg	0.5868		865	0.5865	-.11	670	0.8845	-1.57	045	0.9555	-.36
			027	0.5840	-.13	027	0.5840	-.13				171	0.9580	-.36
			357	0.5850	-.23							164	0.9500	-.37

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 032.05	--	--	Method 033.00	--	--	Method 033.01	--	--	Method 033.99	--	--	Method 035.00	--
026	0.9540	-.37	567	0.6300	.61	042	0.6250	.24	653	0.6375	1.00	675	0.2550 s	3.44
154	0.9469	-.47	596	0.6250	.51	Avg	0.6260		673	0.6350	.94	720	0.2450	2.66
037	0.9460	-.51	013	0.6200	.45	205	0.6225	-.11	083	0.6150	.65	868	0.2390 R	2.54
208	0.9535	-.52	716	0.6200	.42	199	0.6200	-.21	869	0.6100	.57	619	0.2270	1.22
353	0.9450	-.55	731	0.6150	.35	559	0.6150	-.51	Avg	0.5820		670	0.2225	.89
357	0.9450	-.55	208	0.6080	.30	590	0.6200	-.52	619	0.5420	-.43	529	0.2205	.88
510	0.9600	-.63	695	0.6100	.25	096	0.6200	-.52	856	0.5400	-.48	350	0.2200	.67
425	0.9600	-.63	016	0.6070	.20	029	0.6100	-.69	855	0.5350	-.57	722	0.2190	.60
038	0.9560	-.65	353	0.6000	.19	354	0.6100	-.69	019	0.5200	-.77	175	0.2150	.48
187	0.9407	-.66	045	0.6000	.19	226	0.6100	-.69	358	0.5000	-1.09	233	0.2150	.48
294	0.9600	-.94	Avg	0.6004		178	0.6100	-.69	121	0.4625 s	-1.60	628	0.2150	.48
407	0.9305	-.98	693	0.5900	-.08	510	0.6100	-.69	--	Method 034.01	--	142	0.2150	.48
186	0.9300	-1.00	034	0.5800	-.25	164	0.6100	-.69	038	0.5025	.71	065	0.2140	.22
049	0.9500	-1.31	689	0.5800	-.25	686	0.6100	-.84	Avg	0.2114		307	0.2100	-.11
616	0.9400	-1.34	160	0.5780	-.28	194	0.6050	-.96	--	Method 034.04	--	038	0.2090	-.20
553	0.9175	-1.42	511	0.5750	-.41	021	0.6000	-1.17	619	0.6680	1.82	139	0.2055	-.46
511	0.9200	-1.45	679	0.5700	-.45	011	0.5988	-1.24	610	0.5820	.72	263	0.2060	-.52
309	0.9127	-1.54	309	0.5692	-.47	004	0.5750 s	-2.39	171	0.5300 X	.26	609	0.2050	-.63
598	0.9149	-1.65	628	0.5650	-.50	106	0.5530 s	-3.44	208	0.5305	.10	505	0.2050	-.63
693	0.9150	-1.66	017	0.5200	-1.25	--	Method 033.03	--	Avg	0.5244		208	0.2050	-.63
029	0.9111	-1.85	407	0.4900	-1.75	726	0.6450	1.30	164	0.4750	-.62	205	0.1970	-1.19
144	0.9050 R	-2.27	868	0.4885	-1.78	190	0.6250	.65	026	0.4450	-1.04	305	0.1950	-1.34
629	0.8300 s	-4.13	588	0.4500 s	-2.41	505	0.6050	.64	169	0.4400	-1.06	152	0.1950	-1.34
003	0.8100 s	-4.84	--	Method 033.01	--	144	0.6150	.54	--	Method 034.05	--	035	0.1900	-1.67
550	0.7900 s	-5.39	242	0.6650	1.98	265	0.6000	.02	682	1.5400 S	48.87	650	0.1100 s	-7.94
405	0.5950 s	-11.49	425	0.6650	1.98	Avg	0.5993		154	0.6605	.88	--	Method 035.01	--
--	Method 032.99	--	098	0.6500	1.33	598	0.5800	-.48	Avg	0.6450		138	0.2310	1.25
692	0.8900	.71	001	0.6450	1.03	848	0.5250	-1.86	560	0.6295	-.85	563	0.2203	.23
Avg	0.8900		674	0.6450	1.03	--	Method 033.05	--	693	0.2950 S	-25.00	Avg	0.2178	
588	0.2305 S	-46.64	610	0.6430	.91	171	0.5950	.71	--	Method 034.99	--	686	0.2150	-.53
--	Method 033.00	--	650	0.6350 R	.89	--	Method 033.99	--	098	0.5400	1.08	856	0.2050	-1.27
297	0.7200	2.09	307	0.6400	.76	681	0.9200 S	5.14	047	0.4950	.34	--	Method 035.03	--
539	0.7100	1.92	629	0.6400	.76	552	0.8100 S	3.51	096	0.5000	.26	003	0.3150 s	10.83
723	0.6650	1.17	413	0.6400	.76	003	0.8000 S	3.44	Avg	0.4873		004	0.3085 s	10.14
298	0.6400	.77	229	0.6400	.76	588	0.6900 R	1.84	190	0.4140	-1.47	187	0.2520 s	4.87
675	0.6350	.67	100	0.6300	.55	861	0.6850	1.68	598	0.2264 s	2.79	598	0.2264 s	2.79
366	0.6300 R	.67	026	0.6300	.55									
			175	0.6250	.24									

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 035.03	--	--	Method 035.03	--	--	Method 036.00	--	--	Method 037.01	--	--	Method 037.03	--
407	0.2240	2.27	021	0.1950	-.64	307	0.2250	.71	305	401.08	1.11	226	403.00	.59
144	0.2150 R	2.00	520	0.1950	-.64				856	401.00	.92	171	402.50	.57
160	0.2206	1.96	358	0.1950	-.64	--	Method 036.03	--	035	401.00	.90	407	402.00	.56
029	0.2114 R	1.57	695	0.1950	-.64	160	0.3039	1.73	612	398.50	.88	512	399.75	.46
186	0.2155	1.47	309	0.1926	-.73	154	0.3000	1.59	722	397.78	.76	074	395.50	.29
865	0.2125	1.20	567	0.1900	-.90	687	0.2915	1.22	675	398.43	.74	083	390.50	.24
512	0.2106	1.13	553	0.1895	-.96	708	0.2915	1.22	716	394.00	.60	148	390.25	.10
011	0.2112	1.10	661	0.1870	-1.18	106	0.2855	.94	619	387.50	.29	629	390.50	.10
100	0.2100	.96	693	0.1850	-1.44	187	0.2799	.69	529	388.75	.16	Avg	388.65	
413	0.2100	.96	353	0.1850	-1.44	294	0.2750	.52	013	388.00	.12	242	386.50	-.11
425	0.2100	.96	121	0.1820	-1.65	560	0.2740	.44	723	386.50	.03	049	387.67	-.19
226	0.2100	.96	550	0.1810	-1.83	353	0.2700	.26	Avg	386.41		598	385.50	-.19
229	0.2100	.96	035	0.1800	-1.83	021	0.2685	.25	720	383.80	-.20	164	384.00	-.21
242	0.2100	.96	366	0.1800 R	-2.06	171	0.2675	.25	175	385.00	-.20	520	388.00	-.29
190	0.2050	.68	511	0.1750	-2.35	Avg	0.2640		038	381.50	-.32	511	382.50	-.34
098	0.2050	.68	616	0.1710 s	-2.83	186	0.2630	-.10	563	379.49	-.43	610	378.00	-.44
019	0.2050	.68	405	0.1530 s	-4.35	038	0.2605	-.15	350	378.50	-.49	358	379.73	-.53
083	0.2050	.68				357	0.2600	-.17	208	374.00	-.77	208	372.00	-.68
265	0.2050	.68	--	Method 035.05	--	366	0.2600	-.17	039	373.95	-.85	553	366.50	-.91
298	0.2050	.68	106	0.4205 s	18.10	042	0.2580	-.26	178	372.00	-.90	026	363.50	-1.03
042	0.2040	.41	169	0.2500 S	3.56	045	0.2555	-.37	590	370.00	-1.01	425	358.80	-1.23
096	0.2000	.03	669	0.2235	1.17	510	0.2500	-.60	588	369.00	-1.07	019	347.00	-1.70
049	0.2000	.03	590	0.2200	.87	693	0.2450	-.85	307	368.00	-1.24	144	344.70	-1.90
297	0.2000	.03	108	0.2200	.87	169	0.2400	-1.04	731	364.50	-1.35	695	336.24	-2.14
164	0.2000	.03	665	0.2150	.62	309	0.2355	-1.23	505	362.00	-1.50	405	292.50 s	-3.92
610	0.2000	.03	588	0.2120	.20	550	0.2235	-1.75	689	359.20	-1.68	004	0.4315 s	-15.83
682	0.2000	.03	629	0.2100	.01	616	0.2130	-2.23	043	296.35 s	-5.55			
089	0.2000	.03	Avg	0.2098		265	0.1800 s	-3.65				--	Method 037.05	--
Avg	0.1997		560	0.2030	-.68				--	Method 037.03	--	038	452.00 R	1.92
148	0.1990	-.06	171	0.1950	-1.34	--	Method 036.04	--	682	458.00	2.83	186	453.00	1.86
726	0.1992	-.08	731	0.1900	-1.70	226	0.2750	.71	003	414.00 R	2.00	027	444.75	1.60
208	0.1980	-.16	294	0.1900 R	-1.91				550	417.66	1.23	160	441.00	1.49
038	0.1960	-.34				--	Method 037.01	--	265	404.00 R	1.00	017	430.00 R	1.43
869	0.1960	-.39	--	Method 035.99	--	868	448.50 s	3.83	011	411.33	.93	106	434.50	1.29
199	0.1960	-.39	723	0.2615 S	1.75	628	439.00 A	3.25	098	410.50	.89	187	428.16	1.09
572	0.1975	-.47	027	0.2435	1.18	014	417.50	2.00	297	408.50	.85	353	418.60	.81
045	0.1970	-.53	Avg	0.2078		674	409.38	1.45	100	408.50	.81	028	412.00	.60
154	0.1940	-.53	692	0.1900	-.58	018	407.50	1.40	229	406.00	.71	413	411.00	.59
510	0.1960	-.58	864	0.1900	-.88	669	408.01	1.36	029	393.15	.61	357	408.00	.51

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 037.05	--	--	Method 038.00	--	--	Method 101.01	--	--	Method 106.02	--	--	Method 120.00	--
726	405.50	.39	021	1.4000	-1.44	208	915.00	.71	610	2.8000	-1.63	684	1.1135	1.31
190	404.06	.35	106	1.3500	-1.62							652	1.0900	.76
035	403.00	.32				--	Method 101.02	--	--	Method 107.00	--	160	1.0876	.73
366	402.00	.30	--	Method 038.99	--	858	60.540	.71	227	45.950	.86	571	1.0750	.51
096	395.00	.17	164	2.2000	.00				Avg	33.985		350	1.0635	.11
294	395.34	.08				--	Method 104.00	--	208	22.020	-.87	Avg	1.0610	
Avg	392.78		--	Method 039.01	--	227	7.4700	1.05				619	1.0550	-.19
560	390.00	-.09	164	1.5000	.00	Avg	7.2325		--	Method 108.02	--	227	1.0600	-.25
567	392.00	-.25				208	6.9950	-.64	675	3.6800	.89	868	1.0450	-.42
869	387.00	-.38	--	Method 039.02	--				Avg	3.0750		504	1.0550	-.64
021	390.00	-.44	021	2.1000	1.13	--	Method 105.00	--	676	2.4700	-.84	675	0.9650	-2.39
045	377.50	-.50	560	2.1450	.87	160	2.6350	.71						
572	376.50	-.50	154	2.1000	.21				--	Method 109.02	--	--	Method 120.05	--
616	377.00	-.53	Avg	2.0812		--	Method 105.01	--	227	178.00 R	1.38	626	1.1350 S	2.39
199	375.00	-.55	011	1.9798	-1.19	208	4.7000	.84	199	175.00	1.18	038	1.0500	.71
154	363.50	-.93				Avg	3.9075		619	165.50	.75	Avg	1.0500	
510	351.00	-1.28	--	Method 040.00	--	227	3.1150	-.89	563	161.37	.56			
309	349.25	-1.34	560	4.3700	.71				610	157.60	.39	--	Method 121.00	--
169	343.00	-1.55				--	Method 106.00	--	208	156.71	.35	160	1.5758	2.22
037	334.50	-1.79	--	Method 041.00	--	171	4.0500	.71	675	151.88	.31	652	1.4450	.50
693	328.50	-1.97	011	0.2603	.71				Avg	148.97		571	1.4300	.32
						--	Method 106.01	--	858	148.65	-.04	Avg	1.4077	
--	Method 037.99	--	--	Method 050.01	--	858	4.9450	-.71	560	119.50	-1.34	619	1.3950	-.18
866	411.36	1.37	038	0.0072	2.49				676	104.51	-2.02	684	1.3880	-.29
846	396.94	.76	028	0.0060	.87	--	Method 106.02	--				227	1.4050	-.46
Avg	379.89		027	0.0060	.87	616	7.4850 s	7.09	--	Method 109.99	--	504	1.3750	-.63
121	369.90	-.42	026	0.0054	.16	021	4.4550	1.39	096	183.50	.71	350	1.3555	-.69
047	369.75	-.68	Avg	0.0054		208	4.3500	1.21				868	1.3000	-1.42
692	351.50	-1.18	043	0.0054	-.08	160	4.1950	.99	--	Method 113.01	--	675	1.0900 s	-4.19
			036	0.0054	-.08	563	4.1814	.90	208	2.4350	.95			
--	Method 038.00	--	047	0.0053	-.11	227	3.9300	.48	Avg	2.4175		--	Method 121.05	--
510	1.9000 R	1.60	001	0.0051	-.38	560	3.7650	.16	227	2.4000	-.77	038	1.4650	.66
154	1.9000	1.22	866	0.0048	-.80	Avg	3.6747					Avg	1.4600	
011	1.7938	.69	846	0.0047	-.89	199	3.3500	-.59	--	Method 114.01	--	626	1.4550	-1.03
029	1.7800	.62	019	0.0048	-.89	675	3.2950	-.69	227	0.3135	.71			
560	1.7450	.51	014	0.0045	-1.18	619	3.6300	-.79				--	Method 122.00	--
038	1.7000	.20				004	3.4000	-.85				652	2.1050	1.00
Avg	1.6617					096	3.4200	-.89				571	2.0900	.84
693	1.6250	-.38				676	3.0000	-1.20				684	2.0785	.73

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 122.00	--	--	Method 125.00	--	--	Method 127.00	--	--	Method 129.00	--	--	Method 131.00	--
227	2.0550	.47	868	4.1200	1.90	571	0.5560	.41	619	1.6700	-.23	652	0.4200	.58
350	2.0355	.22	684	3.8605	.93	Avg	0.5467		652	1.6650	-.26	350	0.4145	.45
619	2.0250	.12	227	3.7000	.36	619	0.5460	-.11	868	1.5900	-1.51	858	0.4100	.35
Avg	2.0160		619	3.7100	.33	160	0.5369	-.28	675	1.5850	-1.59	504	0.4000	.26
504	2.0100	-.34	571	3.6850	.28	227	0.5350	-.36				Avg	0.3961	
868	1.9250	-1.02	350	3.6845	.22	504	0.5400 R	-.86	--	Method 129.05	--	868	0.3950 R	-.37
160	1.8199	-2.20	Avg	3.6277		675	0.4700	-2.16	626	1.7500	.85	675	0.3250	-1.74
675	1.5850 S	-4.83	652	3.5700	-.24				Avg	1.7075		684	0.3220	-1.81
			160	3.3967	-.91	--	Method 127.05	--	038	1.6650	-.88			
--	Method 122.05	--	504	3.3300	-1.15	626	0.5850	.90				--	Method 131.02	--
626	2.3750 S	2.37	675	3.2200	-1.57	Avg	0.5535		--	Method 130.00	--	227	0.4500	.86
038	2.0550	.71				038	0.5220	-.83	848	1.3850	2.00	Avg	0.4313	
Avg	2.0550		--	Method 125.05	--				504	1.3450	.78	676	0.4125	-.87
			626	4.0350	1.08	--	Method 128.00	--	652	1.3300	.68			
--	Method 124.00	--	Avg	3.8700		504	0.8900	1.28	350	1.3455	.61	--	Method 131.05	--
160	0.4077 s	10.19	038	3.7050	-.57	619	0.8615	.81	Avg	1.3273		038	0.4835	1.20
652	0.3350	1.28				571	0.8475	.61	571	1.3250	-.18	610	0.4300	.57
571	0.3315	.82	--	Method 126.00	--	652	0.8450	.56	684	1.3170	-.44	Avg	0.3806	
619	0.3295	.62	504	1.0400 R	1.69	684	0.8365	.47	858	1.3250	-.81	626	0.3200	-.71
675	0.3300	.51	350	1.0510	1.08	868	0.8150	.25	619	1.3000	-.91	016	0.2890	-1.12
Avg	0.3258		571	1.0500	1.04	Avg	0.8106		160	1.3001	-1.03			
504	0.3250	-.62	652	1.0400	.75	227	0.8100	-.16	227	1.3000	-1.13	--	Method 132.00	--
684	0.3230	-.92	619	1.0350	.49	350	0.7895	-.34	675	0.9250 s	-13.49	160	1.1768 s	4.29
350	0.3175	-1.10	Avg	1.0234		160	0.7359	-1.19				350	1.0320	1.23
868	0.3150	-1.45	684	1.0155	-.32	675	0.6750	-2.17	--	Method 130.01	--	504	0.9850	.77
			160	1.0106	-.59				035	1.5750 S	.00	652	1.0050	.74
--	Method 124.02	--	227	1.0100	-.65	--	Method 128.05	--				684	0.9755	.41
676	0.2835	.88	868	0.9750	-1.89	626	0.9000	.80	--	Method 130.05	--	571	0.9895	.35
Avg	0.2818		675	0.7550 s	-10.45	Avg	0.8440		626	1.5200	1.21	619	0.9895	.35
227	0.2800	-.85				038	0.7880	-.93	027	1.4100	.87	Avg	0.9724	
			--	Method 126.05	--				Avg	1.3680		868	0.9700	-.21
--	Method 124.05	--	626	1.1200 S	16.51	--	Method 129.00	--	610	1.3300	-.30	227	0.9400	-.70
038	0.5170 S	.00	038	1.0050	.71	504	1.7600	1.43	038	1.3000	-.78	675	0.8650	-2.22
610	0.3400	.00	Avg	1.0050		684	1.7350	1.07	016	1.2800	-1.25			
Avg	0.3400					160	1.7316	1.02				--	Method 132.05	--
			--	Method 127.00	--	227	1.6850	.43	--	Method 131.00	--	626	1.0050	1.00
			684	0.5880	1.19	571	1.7000	.38	619	0.4285	.79	Avg	0.9758	
			652	0.5800	.94	Avg	1.6798		160	0.4228	.65	038	0.9465	-.71
			350	0.5615	.42	350	1.6765	-.06	571	0.4225	.65			

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 133.00	--	--	Method 135.00	--	--	Method 137.05	--						
619	1.3100	1.61	858	0.8850	.45	038	0.6835	.89						
652	1.2600	.79	160	0.8841	.44	Avg	0.5942							
868	1.2350	.68	619	0.8890	.23	626	0.5050	-.84						
160	1.2597	.66	227	0.8850	.19				--	Method 138.00	--			
684	1.2600	.62	Avg	0.8828		504	1.0250	1.61						
Avg	1.2316		868	0.8500	-1.12	571	0.9890	.86						
227	1.2300	-.39	504	0.8250	-2.03	619	0.9800	.54						
571	1.1950	-.71	675	0.6650 s	-7.41	160	0.9721	.37						
504	1.1750	-1.19				350	0.9700	.32						
675	1.1600	-1.39	--	Method 135.05	--	684	0.9560	.24						
			626	1.0050 S	9.04	Avg	0.9552							
--	Method 133.05	--	038	0.9160	1.13	652	0.9500	-.24						
626	1.2650	.55	Avg	0.9155		227	0.9350	-.45						
Avg	1.2425		610	0.9150	-.47	868	0.9200	-.76						
038	1.2200	-1.09				675	0.8550	-2.18						
			--	Method 136.00	--									
--	Method 134.00	--	684	0.2605	.71	--	Method 138.05	--						
227	1.0250	.78				626	1.0600	.85						
571	1.0160	.72	--	Method 136.01	--	Avg	0.9775							
684	1.0160	.64	619	0.2745	1.04	038	0.8950	-.88						
652	1.0150	.55	160	0.2573 R	.61				--	Method 139.00	--			
160	1.0100	.45	571	0.2630	.53	504	0.0500	.71						
619	1.0000	.27	Avg	0.2519					--	Method 140.00	--			
350	0.9885	.15	227	0.2500	-.09	868	1.3750	.71						
Avg	0.9850		868	0.2200	-1.46				--	Method 150.00	--			
868	0.9400	-.84				027	1153.5	1.03						
675	0.8550	-2.38	--	Method 136.99	--	047	1056.0	.35						
504	0.7450 S	-4.39	504	0.2500	.71	Avg	1034.8							
						171	895.00	-1.15						
--	Method 134.05	--	--	Method 137.00	--				--	Method 150.99	--			
626	1.1350	.84	160	0.7703	1.57	218	978.50	1.45						
Avg	1.0975		684	0.7270	.91	Avg	901.00							
038	1.0600	-.89	350	0.6980	.42	868	883.00	-.19						
			Avg	0.6722		619	841.50	-.60						
--	Method 135.00	--	504	0.6550	-.62									
652	0.9450 R	2.42	675	0.6300	-.69									
684	0.9140	1.12	868	0.6250	-.79									
350	0.9075	.84	227	0.6000	-1.25									
571	0.9060	.82												

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.00	11	0.0000	1.02	0.12	010.03	4	-1.5862	1.95	0.21
001.03	7	-1.6675	4.47	0.63	010.11	14	-0.0266	0.95	0.44
001.07	42	-1.0508	2.95	0.74	010.99	14	0.3063	2.23	0.35
001.99	19	-0.0628	1.01	0.22	011.01	86	-0.0131	1.29	0.28
002.00	7	-0.3771	1.38	0.20	012.00	7	0.0000	1.01	0.22
002.01	10	0.0976	1.01	0.20	012.01	3	0.0000	0.98	0.44
002.02	9	0.0000	1.00	0.24	012.03	4	0.0000	1.03	0.29
002.04	7	0.0000	1.04	0.08	012.04	5	0.0000	1.06	0.06
002.05	21	-0.2655	1.51	0.45	012.11	6	0.0000	1.04	0.09
002.06	131	-0.0221	1.31	0.44	012.99	3	3.1147	5.46	0.14
002.08	5	0.0000	1.03	0.24	013.02	31	-0.0904	1.02	0.22
002.10	14	0.1115	1.06	0.31	013.10	15	0.0000	1.00	0.19
002.11	16	0.1004	1.94	0.31	013.11	2	0.0000	1.18	0.23
002.99	4	0.0000	0.88	0.54	013.12	3	0.0000	1.11	0.08
003.00	29	0.1172	1.69	0.37	013.13	2	0.0000	0.87	0.61
003.06	26	-0.0331	2.15	0.27	013.99	3	0.0000	1.11	0.07
003.09	24	-0.0958	1.01	0.26	015.00	10	0.1751	1.11	0.20
003.10	32	0.0696	3.14	0.45	017.00	8	0.0000	1.01	0.23
003.11	16	-0.2765	1.22	0.49	019.00	11	38.3561	85.31	0.58
003.12	5	-1.1001	2.62	0.25	019.01	51	0.1270	1.21	0.30
003.13	5	0.0000	1.05	0.13	019.03	6	0.0000	1.02	0.23
003.14	17	-0.2640	2.13	0.47	019.05	41	0.1904	1.84	0.48
003.99	11	0.4088	1.61	0.44	019.08	8	-0.0324	0.95	0.30
004.00	29	0.4513	1.91	0.48	019.09	31	0.3983	1.82	0.53
004.01	2	2.0249	2.86	1.45	019.99	7	0.9578	2.68	0.41
004.03	2	0.0000	0.95	0.55	020.01	6	0.4931	1.49	1.56
004.06	34	0.0000	0.98	0.21	020.99	2	0.0000	1.19	0.21
004.07	40	0.0787	1.02	0.29	021.01	3	24.5629	21.40	8.61
004.11	16	0.5181	1.72	0.18	021.02	11	-0.0305	0.98	0.12
004.99	6	5.4450	13.37	0.39	022.01	29	-0.0817	1.05	0.34
005.00	140	-0.1421	1.33	0.35	022.03	34	0.0473	0.98	0.32
005.11	12	-0.2184	3.93	0.18	022.05	30	-0.0422	1.16	0.22
005.99	11	-0.3860	3.61	0.94	022.99	4	0.0000	0.87	0.56
008.02	13	-0.1109	1.04	0.23	025.01	26	0.0417	1.13	0.37
008.08	22	0.0422	0.99	0.29	025.03	36	-0.2229	1.80	0.67
008.99	4	0.0000	1.03	0.29	025.05	26	0.0203	0.98	0.35
009.07	11	0.0000	1.00	0.22	025.99	3	0.0000	1.11	0.10
009.09	17	0.0338	0.97	0.29	026.99	2	0.0000	1.21	0.13
009.99	5	-1.7259	3.93	0.54	027.01	28	0.0024	1.28	0.22

Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
027.03	34	0.0109	0.98	0.27	107.00	2	0.0000	1.22	0.09
027.05	24	0.1045	1.14	0.38	108.02	2	0.0000	1.17	0.26
028.01	29	-0.2985	1.47	0.20	109.02	10	0.1315	1.05	0.16
028.03	33	-0.5036	3.33	0.39	113.01	2	0.0000	0.31	0.84
028.05	31	0.0780	1.03	0.31	120.00	10	0.0000	0.98	0.28
028.99	3	0.0000	0.89	0.55	120.05	2	1.0017	1.42	1.04
031.01	57	0.0557	1.40	0.26	121.00	10	-0.4188	1.63	0.23
031.02	5	-0.7614	1.80	2.76	121.05	2	0.0000	0.13	0.86
031.03	8	0.0000	0.98	0.32	122.00	10	-0.4829	1.80	0.14
031.05	69	0.1426	1.38	0.36	122.05	2	0.9838	1.39	1.06
031.06	2	0.0000	0.69	0.71	124.00	9	1.1108	3.43	0.84
031.99	9	0.3478	1.16	0.32	124.02	2	0.0000	1.20	0.17
032.01	24	0.3962	2.17	0.36	124.05	2	0.0000	0.00	0.00
032.02	5	0.0000	1.05	0.16	125.00	10	0.0000	1.02	0.14
032.05	56	-0.2773	2.28	0.53	125.05	2	0.0000	0.65	0.74
032.99	2	-23.3168	32.98	0.57	126.00	10	-0.9798	3.45	0.54
033.00	28	0.0209	0.99	0.13	126.05	2	8.1317	11.50	2.06
033.01	32	-0.0913	1.13	0.28	127.00	9	-0.0208	0.96	0.32
033.03	7	0.0000	0.96	0.37	127.05	2	0.0000	0.99	0.51
033.99	15	0.9168	1.90	0.28	128.00	10	0.0000	1.02	0.14
034.04	7	0.0000	1.02	0.20	128.05	2	0.0000	1.11	0.37
034.05	4	7.4404	29.06	8.06	129.00	10	0.0000	0.97	0.33
034.99	4	0.0000	1.06	0.19	129.05	2	0.0000	1.17	0.25
035.00	25	-0.0944	2.03	0.40	130.00	11	-1.2261	4.15	0.47
035.01	4	0.0000	1.00	0.35	130.05	5	0.0000	0.79	0.64
035.03	59	0.3710	2.34	0.47	131.00	10	-0.0028	0.97	0.15
035.05	12	1.6534	5.37	0.43	131.02	2	0.0000	1.22	0.05
035.99	4	0.4387	1.20	0.34	131.05	4	0.0000	1.05	0.22
036.03	24	-0.1511	1.23	0.18	132.00	10	0.4211	1.62	0.39
037.01	32	0.0474	1.63	0.27	132.05	2	0.0000	0.90	0.58
037.03	35	-0.5170	2.91	0.38	133.00	9	0.0000	0.92	0.44
037.05	31	0.0956	1.03	0.25	133.05	2	0.0000	0.76	0.68
037.99	5	0.0000	1.00	0.33	134.00	10	-0.4382	1.68	0.23
038.00	9	0.1360	1.02	0.42	134.05	2	0.0000	1.11	0.37
039.02	4	0.0000	0.79	0.64	135.00	11	-0.4811	2.54	0.46
050.01	12	0.0000	1.01	0.13	135.05	3	2.8065	4.86	2.03
104.00	2	0.0000	0.78	0.67	136.01	5	0.0492	0.94	0.26
105.01	2	0.0000	1.19	0.20	137.00	7	0.0000	0.98	0.32
106.02	14	0.4851	2.02	0.66	137.05	2	0.0000	1.18	0.23

Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
138.00	10	0.0000	0.99	0.25					
138.05	2	0.0000	1.20	0.17					
150.00	3	0.0000	1.07	0.27					
150.99	2	0.0905	0.97	0.87					