

Feed Check Sample No. - 200824 Lamb Starter, Medicated
 Association of American Feed Control Officials

- Pass 1 Results for 203 Labs - - Pass 2 Results for 202 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
Urea, Misc		000.99	1	0.96000	0.09899	0.14000	1	0.96000	0.09899	0.14000
Loss on Drying, Vac 95 deg 5 hr	934.01	001.00	10	9.10650	0.43432	0.09900	12	8.91458	0.59022	0.09750
Loss on Drying, ISO 6496		001.03	5	9.12800	0.14913	0.04800	5	9.12800	0.14913	0.04800
Loss on Drying, LECO		001.05	1	9.10000	0.07071	0.10000	1	9.10000	0.07071	0.10000
Loss on Drying, 104 deg 3 hr, in malt ..	935.29	001.07	35	9.04411	0.26111	0.10571	32	9.07512	0.22022	0.07875
Loss on Drying, 102 deg 16 hr, in meat	950.46	001.08	2	9.07800	0.41900	0.43600	2	9.07800	0.41900	0.43600
Loss on Drying, Misc		001.99	13	9.24038	0.46236	0.09615	12	9.23250	0.47871	0.07667
Method Group 001.XX PCT			66	9.10045	0.33958	0.10836	62	9.11540	0.32615	0.09100
Protein, Crude	954.01	002.00	5	20.8150	0.36698	0.13000	5	20.8150	0.36698	0.13000
Protein, Auto Kjel-Foss	976.05	002.01	10	20.8282	0.18229	0.10617	10	20.8282	0.18229	0.10617
Protein, Semiauto Autoanalyzer	976.06	002.02	9	20.8846	0.64632	0.19344	10	20.7732	0.70194	0.19610
Protein, Hach Method		002.03	1	20.6950	0.17678	0.25000	1	20.6950	0.17678	0.25000
Protein, Copper Cat	984.13	002.04	2	20.8000	0.42301	0.18000	2	20.8000	0.42301	0.18000
Protein, Copper, Boric Acid		002.05	19	20.8605	0.27886	0.09003	18	20.8833	0.26600	0.07836
Protein, Combustion Nitrogen Analyzer	990.03	002.06	127	21.1701	0.29080	0.13231	120	21.1667	0.27925	0.11261
Protein, Cu/Ti	988.05	002.08	5	20.7796	0.29450	0.13074	5	20.7796	0.29450	0.13074
Protein, Block dig/distillation		002.10	8	20.7475	0.29879	0.11750	8	20.7475	0.29879	0.11750
Protein, NIR		002.11	11	20.8768	0.44463	0.07773	11	20.8768	0.44463	0.07773
Protein, Misc		002.99	7	21.0230	0.24274	0.22714	7	21.0230	0.24274	0.22714
Method Group 002.XX PCT			204	21.0502	0.35485	0.13047	196	21.0470	0.34792	0.11748
Fat, Eth Ext, Direct	920.39	003.00	29	3.62538	0.21249	0.08772	26	3.62062	0.20922	0.05092
Fat, Ind Eth Ext (13th ed), Indirect ..	920.39	003.01	1	3.53000	0.01414	0.02000	1	3.53000	0.01414	0.02000
Fat, Pet Ether		003.06	23	3.53174	0.17605	0.05217	22	3.52773	0.17716	0.04364
Fat, Soxtec, Eth Ext		003.09	24	3.57035	0.17632	0.09097	23	3.56841	0.17467	0.07710
Fat, Soxtec, Pet Ether		003.10	26	3.50622	0.13379	0.08425	25	3.49906	0.12600	0.07282
Fat, NIR		003.11	11	3.19933	0.17605	0.02362	10	3.22426	0.16369	0.01598
Fat, Hexane Ext.		003.12	3	3.84500	0.23805	0.08333	3	3.84500	0.23805	0.08333
Fat, Soxtec, Hexane Ext.		003.13	5	3.46690	0.13734	0.07300	5	3.46690	0.13734	0.07300
Fat, Ankom		003.14	13	3.51962	0.28272	0.16385	12	3.53542	0.24851	0.09417
Fat, Misc		003.99	7	3.54429	0.13346	0.04000	6	3.57250	0.11545	0.01500
Method Group 003.XX PCT			142	3.53080	0.21726	0.08044	133	3.53232	0.20678	0.05934
Fiber, Crude Asbestos Free	962.09	004.00	29	4.75858	0.55533	0.14674	28	4.77656	0.55378	0.13020
Fiber, Sing Filt		004.01	1	6.21500	0.27577	0.39000	1	6.21500	0.27577	0.39000
Fiber, Fritted Glass	978.10	004.03	3	5.11667	0.31462	0.29333	3	5.11667	0.31462	0.29333
Fiber, Fibertec		004.06	29	5.13169	0.35088	0.15420	26	5.14823	0.33601	0.10007
Fiber, ANKOM		004.07	39	4.63295	0.49133	0.15359	36	4.59431	0.47020	0.10806
Fiber, NIR		004.11	11	4.97007	0.37590	0.06510	11	4.97007	0.37590	0.06510
Fiber, Misc		004.99	4	4.62250	0.29412	0.00500	4	4.62250	0.29412	0.00500
Method Group 004.XX PCT			116	4.84680	0.51376	0.14417	109	4.84146	0.51238	0.11141

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Ash,	942.05	005.00	127	6.76438	0.25224	0.07357	119	6.76951	0.25266	0.05541
Ash, Sugars & Syrups	900.02	005.01	1	6.14500	0.02121	0.03000	1	6.14500	0.02121	0.03000
Ash, LECO		005.02	2	6.91250	0.02500	0.02500	2	6.91250	0.02500	0.02500
Ash, Microwave Furnace		005.03	1	6.02500	0.03536	0.05000	1	6.02500	0.03536	0.05000
Ash, NIR		005.11	4	7.04198	0.53949	0.06275	6	7.38632	0.67579	0.07517
Ash, Misc		005.99	11	6.87636	0.19820	0.06364	10	6.84900	0.17994	0.04000
Method Group 005.XX PCT			146	6.77315	0.27359	0.07140	137	6.77536	0.27380	0.05383
Sugar, TSI, Lane-Eynon (12th)	923.09	006.05	1	6.66500	0.02121	0.03000	1	6.66500	0.02121	0.03000
Fiber, Acid Detergent	973.18	008.02	13	6.52637	0.26812	0.21442	11	6.57116	0.19673	0.10795
Fiber, Acid Detergent by ANKOM		008.08	20	6.15525	0.69233	0.24450	19	6.13105	0.69240	0.20421
Fiber, Acid Detergent Misc		008.99	4	6.35625	0.53216	0.26250	4	6.35625	0.53216	0.26250
Method Group 008.XX PCT			37	6.30737	0.58127	0.23588	34	6.29993	0.58922	0.17993
Fiber, Neutral Det-No ENZ Pretreat		009.04	1	15.1150	0.86974	1.23000	1	15.1150	0.86974	1.23000
Fiber, Neutral Det-ENZ Pretreat		009.07	11	13.6854	1.16450	0.19191	10	13.5490	1.12375	0.12310
Fiber, Neutral Detergent by ANKOM		009.09	16	13.1866	0.84454	0.32437	15	13.1390	0.82838	0.24600
Fiber, Neutral Det Misc		009.99	3	12.4900	0.35721	0.26667	3	12.4900	0.35721	0.26667
Method Group 009.XX PCT			31	13.3584	1.03999	0.30100	29	13.2814	1.00708	0.23969
Moisture, NIR		010.11	9	9.69838	0.32831	0.09280	9	9.69838	0.32831	0.09280
Moisture, Misc		010.99	10	9.33440	0.32176	0.12232	10	9.33440	0.32176	0.12232
Method Group 010.XX PCT			19	9.50681	0.36961	0.10834	19	9.50681	0.36961	0.10834
Loss on Drying, 135 deg 2 hr	930.15	011.01	82	10.0682	0.40205	0.12502	75	10.0547	0.39809	0.07882
Loss on Drying, High Temp Methods, Misc		011.99	3	9.39833	0.43678	0.07000	3	9.39833	0.43678	0.07000
Method Group 011.XX PCT			85	10.0446	0.42062	0.12308	78	10.0295	0.41777	0.07848
Starch, Polarimetric (Ewers)		012.00	7	34.1579	0.57229	0.33857	7	34.1579	0.57229	0.33857
Starch, Megazyme		012.01	3	30.8017	1.22933	0.69667	3	30.8017	1.22933	0.69667
Starch, Enzymatic		012.03	2	29.9400	3.68519	0.40000	2	29.9400	3.68519	0.40000
Starch, YSI Analyzer		012.04	4	32.4675	2.39644	0.06500	4	32.4675	2.39644	0.06500
Starch, NIR		012.11	3	34.4367	1.43802	0.28667	3	34.4367	1.43802	0.28667
Method Group 012.XX PCT			19	32.8721	2.33855	0.33579	19	32.8721	2.33855	0.33579
Fat, Mojonier, Bak Ext	954.02	013.02	32	4.60881	0.51003	0.16300	31	4.59265	0.50463	0.14181
Fat, Soxtec-Acid Hydrolysis		013.10	19	4.11887	0.38978	0.16984	18	4.11464	0.39070	0.13872
Fat, Super Critical Fluid Extraction ..		013.11	1	3.17500	0.00707	0.01000	1	3.17500	0.00707	0.01000
Fat, NIR-Acid Hydrolysis		013.12	2	3.34250	0.03862	0.03500	2	3.34250	0.03862	0.03500
Fat, Ankon-Acid Hydrolysis		013.13	1	4.83500	0.30406	0.43000	1	4.83500	0.30406	0.43000
Fat, Pretreat or extended ext, misc ...		013.99	1	4.20000	0.14142	0.20000	1	4.20000	0.14142	0.20000
Method Group 013.XX PCT			56	4.36849	0.56745	0.16345	54	4.35797	0.56343	0.14080
Aluminum, ICP		015.00	12	77.3297	15.1693	2.05967	11	76.4146	15.4882	1.49873
Method Group 015.XX PPM			12	77.3297	15.1693	2.05967	11	76.4146	15.4882	1.49873
Arsenic, AA, Hydride		016.00	1	0.02700	0.00707	0.01000	1	0.02700	0.00707	0.01000

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Boron, ICP		017.00	8	10.6363	4.82548	0.51537	8	10.6363	4.82548	0.51537
Boron, Misc		017.99	1	14.0000	0.14142	0.20000	1	14.0000	0.14142	0.20000
Method Group 017.XX	PPM		9	11.0101	4.66157	0.48033	9	11.0101	4.66157	0.48033
Cadmium, AA		018.01	1	0.06950	0.00636	0.00900	1	0.06950	0.00636	0.00900
Cadmium, ICP		018.02	2	0.08250	0.00777	0.00800	2	0.08250	0.00777	0.00800
Method Group 018.XX	PPM		3	0.07817	0.00945	0.00833	3	0.07817	0.00945	0.00833
Calcium, Ox-Mn04 Vol	927.02	019.00	11	1.33553	0.07703	0.01934	10	1.33359	0.07938	0.01227
Calcium, At Abs Spect	968.08	019.01	47	1.37058	0.06328	0.02906	41	1.37176	0.05552	0.01550
Calcium, Semiauto (Autoanalyzer)		019.03	7	1.41800	0.06535	0.01057	7	1.41800	0.06535	0.01057
Calcium, ICP, Dry Ash		019.05	36	1.36358	0.06662	0.02620	33	1.36042	0.06201	0.01737
Calcium, EDTA		019.08	7	1.38779	0.03782	0.03826	7	1.38779	0.03782	0.03826
Calcium, ICP, Wet Ash		019.09	26	1.39003	0.05556	0.02195	24	1.38628	0.05500	0.01711
Calcium, Misc		019.99	5	1.39380	0.07988	0.02160	5	1.39380	0.07988	0.02160
Method Group 019.XX	PCT		139	1.37372	0.06553	0.02548	127	1.37285	0.06220	0.01726
Chromium, AA		020.00	2	3.04800	0.33432	0.22550	2	3.04800	0.33432	0.22550
Chromium, ICP		020.01	7	3.33250	0.91359	0.17814	6	3.39875	0.96435	0.08950
Chromium, Misc		020.99	1	3.88000	0.05657	0.08000	1	3.88000	0.05657	0.08000
Method Group 020.XX	PPM		10	3.33035	0.79842	0.17780	9	3.37428	0.82294	0.11867
Cobalt, AA	968.08	021.01	3	1.24957	0.39452	0.18307	3	1.24957	0.39452	0.18307
Cobalt, ICP		021.02	14	1.30543	0.31445	0.11743	12	1.30842	0.31839	0.07117
Cobalt, Misc		021.99	4	1.33181	0.34115	0.28728	3	1.27575	0.21875	0.04970
Method Group 021.XX	PPM		21	1.30247	0.32334	0.15916	18	1.29316	0.31020	0.08624
Copper, AA	968.08	022.01	25	14.8775	1.36231	0.70108	24	14.8953	1.36766	0.63446
Copper, ICP, Dry Ash	968.08	022.03	28	14.3097	1.42274	0.53154	27	14.2471	1.39680	0.47715
Copper, ICP, Wet Ash	968.08	022.05	27	14.5884	0.92682	0.53663	25	14.5520	0.87813	0.37836
Copper, Misc		022.99	5	15.1256	1.43815	0.76790	5	15.1256	1.43815	0.76790
Method Group 022.XX	PPM		85	14.6132	1.28192	0.59692	81	14.5875	1.27440	0.51122
Iron, AA	968.08	025.01	25	270.347	19.7590	5.88093	23	268.413	19.1269	4.43057
Iron, ICP, Dry Ash	968.08	025.03	29	262.228	17.3545	8.92786	28	261.612	16.1272	6.85386
Iron, ICP, Wet Ash	968.08	025.05	25	266.771	25.0853	9.10384	24	266.074	24.9794	7.69150
Iron, Misc		025.99	4	262.082	20.1370	9.05272	4	262.082	20.1370	9.05272
Method Group 025.XX	PPM		83	266.035	20.8738	8.06913	79	264.971	20.2272	6.51415
Lead,		026.00	2	0.10825	0.01431	0.00750	2	0.10825	0.01431	0.00750
Lead, Misc		026.99	1	0.00000	0.00000	0.00000	1	0.00000	0.00000	0.00000
Method Group 026.XX	PPM		3	0.07217	0.05699	0.00500	3	0.07217	0.05699	0.00500
Magnesium, AA	968.08	027.01	22	0.20943	0.00995	0.00264	19	0.21118	0.00918	0.00147
Magnesium, ICP, Dry Ash	968.08	027.03	29	0.20879	0.00755	0.00252	25	0.20879	0.00664	0.00092
Magnesium, ICP, Wet Ash	968.08	027.05	25	0.20951	0.00907	0.00389	23	0.20979	0.00885	0.00273
Magnesium, Misc		027.99	3	0.20307	0.01071	0.01287	3	0.20307	0.01071	0.01287

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Method Group 027.XX PCT			79	0.20898	0.00886	0.00338	70	0.20952	0.00838	0.00218
Manganese, AA	968.08	028.01	27	131.233	6.79543	2.96373	26	131.242	6.57583	2.23156
Manganese, ICP, Dry Ash	968.08	028.03	29	130.537	11.3765	3.30514	28	130.646	11.5188	3.03032
Manganese, ICP, Wet Ash	968.08	028.05	28	137.159	11.0210	5.06475	27	137.128	11.0888	4.58567
Manganese, Misc.		028.99	6	130.971	10.5796	3.30363	6	130.971	10.5796	3.30363
Method Group 028.XX PPM			90	132.835	10.3756	3.75005	87	132.858	10.3935	3.29315
Phosphorus, Vol	964.06	031.00	1	0.63305	0.00007	0.00010	1	0.63305	0.00007	0.00010
Phosphorus, Photometric	965.17	031.01	54	0.60467	0.02572	0.01293	51	0.60396	0.02387	0.00899
Phosphorus, GQMP (2.028)	964.06	031.02	3	0.60650	0.01405	0.01633	3	0.60650	0.01405	0.01633
Phosphorus, Autoanalyzer		031.03	10	0.59232	0.02697	0.01012	9	0.59536	0.02534	0.00569
Phosphorus, ICP		031.05	64	0.60565	0.02723	0.00944	58	0.60496	0.02616	0.00601
Phosphorus, Hach Method		031.06	2	0.61250	0.03594	0.02500	2	0.61250	0.03594	0.02500
Phosphorus, Misc		031.99	7	0.58686	0.03128	0.01371	6	0.59000	0.02860	0.00333
Method Group 031.XX PCT			141	0.60370	0.02705	0.01134	130	0.60358	0.02538	0.00752
Potassium, AA	975.03	032.01	17	1.04466	0.03081	0.01976	16	1.04245	0.02867	0.01600
Potassium, Flame Emission	956.01	032.02	8	1.08038	0.05519	0.04775	7	1.08257	0.04860	0.03029
Potassium, ICP		032.05	56	1.06387	0.06085	0.02724	52	1.06333	0.05942	0.01947
Potassium, Misc		032.99	2	1.08550	0.08138	0.04540	2	1.08550	0.08138	0.04540
Method Group 032.XX PCT			83	1.06205	0.05647	0.02812	77	1.06132	0.05484	0.02040
Salt, Sol Cl	943.01	033.00	18	1.23414	0.07208	0.02504	18	1.23414	0.07208	0.02504
Salt, Poten Cl	969.10	033.01	31	1.25432	0.02894	0.01023	29	1.25668	0.02393	0.00887
Salt, Quantab		033.03	5	1.35200	0.18329	0.01600	5	1.35200	0.18329	0.01600
Salt, Ion Sel Electrode		033.05	1	1.19500	0.03536	0.05000	1	1.19500	0.03536	0.05000
Salt, Misc		033.99	5	1.21300	0.04373	0.02600	4	1.20500	0.03891	0.01000
Method Group 033.XX PCT			60	1.25197	0.07600	0.01713	57	1.25321	0.07674	0.01540
Selenium, Fluor	969.06	034.01	2	0.63500	0.01691	0.01700	2	0.63500	0.01691	0.01700
Selenium, AA, Hydride		034.04	7	0.63786	0.10323	0.02514	7	0.63786	0.10323	0.02514
Selenium, ICP		034.05	4	0.63675	0.15376	0.05100	3	0.61800	0.16908	0.01200
Selenium, Misc		034.99	3	0.56833	0.14972	0.13667	3	0.56833	0.14972	0.13667
Method Group 034.XX PPM			16	0.62419	0.11914	0.05150	15	0.61960	0.11974	0.04373
Sodium, AA		035.00	24	0.24307	0.01871	0.00600	23	0.24386	0.01845	0.00495
Sodium, Ion Sel Electrode		035.01	3	0.25364	0.00628	0.00195	3	0.25364	0.00628	0.00195
Sodium, ICP		035.03	49	0.23981	0.01307	0.00652	46	0.23962	0.01260	0.00499
Sodium, Flame Emission	956.01	035.05	12	0.24492	0.01415	0.00514	11	0.24355	0.01256	0.00197
Sodium, Misc		035.99	2	0.23520	0.00780	0.00610	2	0.23520	0.00780	0.00610
Method Group 035.XX PCT			90	0.24172	0.01489	0.00604	85	0.24167	0.01443	0.00451
Sulfur, (Gravimetric)		036.00	1	0.21000	0.00000	0.00000	1	0.21000	0.00000	0.00000
Sulfur, ICP		036.03	21	0.22117	0.02280	0.00590	19	0.22021	0.02332	0.00437
Sulfur, LECO		036.04	2	0.22000	0.01155	0.00000	2	0.22000	0.01155	0.00000

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Method Group 036.XX PCT			24	0.22061	0.02162	0.00517	22	0.21973	0.02195	0.00377
Zinc, AA	968.08	037.01	29	174.643	10.1876	2.20148	28	174.023	9.77923	1.99439
Zinc, ICP, Dry Ash	968.08	037.03	30	172.983	10.5021	5.48527	28	173.599	10.0058	4.21386
Zinc, ICP, Wet Ash	968.08	037.05	27	180.717	17.1358	6.21759	26	180.264	16.9947	5.18750
Zinc, Misc		037.99	4	171.349	9.79882	4.59343	4	171.349	9.79882	4.59343
Method Group 037.XX PPM			90	175.766	13.0909	4.60722	86	175.647	12.7520	3.80325
Molybdenum, ICP		038.00	12	2.55046	0.34156	0.18492	11	2.55505	0.32202	0.11082
Molybdenum, Misc		038.99	2	2.59750	0.07588	0.07500	2	2.59750	0.07588	0.07500
Method Group 038.XX PPM			14	2.55718	0.31670	0.16921	13	2.56158	0.29672	0.10531
Nickel, AA		039.01	2	2.86250	0.54371	0.17500	2	2.86250	0.54371	0.17500
Nickel, ICP		039.02	5	2.93510	0.54880	0.08620	5	2.93510	0.54880	0.08620
Method Group 039.XX PPM			7	2.91436	0.52715	0.11157	7	2.91436	0.52715	0.11157
Barium, ICP		040.00	1	6.55500	0.10607	0.15000	1	6.55500	0.10607	0.15000
Vanadium, ICP		041.00	2	1.07350	0.13142	0.01200	2	1.07350	0.13142	0.01200
Method Group 041.XX PPM			2	1.07350	0.13142	0.01200	2	1.07350	0.13142	0.01200
Decoquinat, HPLC		054.01	13	6.12619	0.41387	0.13115	12	6.10213	0.41750	0.10625
Method Group 054.XX MG/LB			13	6.12619	0.41387	0.13115	12	6.10213	0.41750	0.10625
Riboflavin, Fluorometric	970.65	104.00	1	2.58500	0.06364	0.09000	1	2.58500	0.06364	0.09000
Thiamine, HPLC		105.00	1	2.46500	0.20506	0.29000	1	2.46500	0.20506	0.29000
Vitamin A, Color	974.29	106.00	1	6.40000	0.14142	0.20000	1	6.40000	0.14142	0.20000
Vitamin A, HPLC		106.02	14	3.50808	1.14567	0.42682	12	3.37222	1.10381	0.19571
Method Group 106.XX KU/LB			15	3.70088	1.32704	0.41170	13	3.60513	1.34116	0.19604
Vitamin D3, HPLC		108.02	2	19.4825	21.3836	0.35500	2	19.4825	21.3836	0.35500
Method Group 108.XX KU/LB			2	19.4825	21.3836	0.35500	2	19.4825	21.3836	0.35500
Vitamin E, HPLC		109.02	8	78.3394	12.7744	2.06150	8	78.3394	12.7744	2.06150
Vitamin E, Misc		109.99	1	91.5000	2.12132	3.00000	1	91.5000	2.12132	3.00000
Method Group 109.XX MG/KG			9	79.8017	12.7422	2.16578	9	79.8017	12.7422	2.16578
Alanine, Post-col Ninhydrin Der	994.12	120.00	8	1.00461	0.04651	0.01936	7	1.00312	0.04784	0.01213
Alanine, Pre-col AQC Der		120.05	1	0.94000	0.00000	0.00000	1	0.94000	0.00000	0.00000
Method Group 120.XX PCT			9	0.99743	0.04843	0.01721	8	0.99523	0.04948	0.01061
Arginine, Post-col Ninhydrin Der	994.12	121.00	7	1.33986	0.02408	0.01886	6	1.33567	0.01813	0.01033
Arginine, Pre-col AQC Der		121.05	1	1.35000	0.01414	0.02000	1	1.35000	0.01414	0.02000
Method Group 121.XX PCT			8	1.34113	0.02298	0.01900	7	1.33771	0.01790	0.01171
Aspartic, Post-col Ninhydrin Der	994.12	122.00	7	2.08536	0.04946	0.04329	7	2.08536	0.04946	0.04329
Aspartic, Pre-col AQC Der		122.05	1	1.93500	0.03536	0.05000	1	1.93500	0.03536	0.05000
Method Group 122.XX PCT			8	2.06656	0.06958	0.04413	8	2.06656	0.06958	0.04413
Cysteine/Cystine, PAO Post-col Ninhydrin Der	994.12	124.00	8	0.35048	0.03838	0.00914	7	0.35126	0.04075	0.00616
Method Group 124.XX PCT			8	0.35048	0.03838	0.00914	7	0.35126	0.04075	0.00616
Glutamic, Post-col Ninhydrin Der	994.12	125.00	8	3.73056	0.13109	0.07295	7	3.71564	0.12114	0.04194

- Pass 1 Results for 203 Labs - - Pass 2 Results for 202 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
Glutamic, Pre-col AQC Der		125.05	1	3.55500	0.02121	0.03000	1	3.55500	0.02121	0.03000
Method Group 125.XX PCT			9	3.71106	0.13569	0.06818	8	3.69556	0.12554	0.04045
Glycine, Post-col Ninhydrin Der	994.12	126.00	8	0.89180	0.02664	0.01717	8	0.89180	0.02664	0.01717
Glycine, Pre-col AQC Der		126.05	1	0.88500	0.00707	0.01000	1	0.88500	0.00707	0.01000
Method Group 126.XX PCT			9	0.89104	0.02518	0.01638	9	0.89104	0.02518	0.01638
Histidine, Post-col Ninhydrin Der	994.12	127.00	7	0.52550	0.01420	0.00986	7	0.52550	0.01420	0.00986
Histidine, Pre-col AQC Der		127.05	1	0.52500	0.00707	0.01000	1	0.52500	0.00707	0.01000
Method Group 127.XX PCT			8	0.52544	0.01335	0.00988	8	0.52544	0.01335	0.00988
Isoleucine, Post-col Ninhydrin Der	994.12	128.00	8	0.82632	0.04319	0.02969	8	0.82632	0.04319	0.02969
Isoleucine, Pre-col AQC Der		128.05	1	0.85500	0.00707	0.01000	1	0.85500	0.00707	0.01000
Method Group 128.XX PCT			9	0.82951	0.04165	0.02750	9	0.82951	0.04165	0.02750
Leucine, Post-col Ninhydrin Der	994.12	129.00	7	1.58839	0.03857	0.02110	7	1.58839	0.03857	0.02110
Leucine, Pre-col AQC Der		129.05	1	1.57500	0.00707	0.01000	1	1.57500	0.00707	0.01000
Method Group 129.XX PCT			8	1.58672	0.03625	0.01971	8	1.58672	0.03625	0.01971
L-Lysine, Post-col Ninhydrin Der	994.12	130.00	9	1.08864	0.03651	0.01471	8	1.08535	0.03526	0.00780
L-Lysine, Pre-col AQC Der		130.05	1	1.03500	0.02121	0.03000	1	1.03500	0.02121	0.03000
Method Group 130.XX PCT			10	1.08328	0.03859	0.01624	9	1.07976	0.03727	0.01027
Methionine, PAO Post-col Ninhydrin Der	994.12	131.00	8	0.29376	0.01584	0.00640	8	0.29376	0.01584	0.00640
Methionine, PAO Pre-col AQC Der		131.05	1	0.26000	0.04243	0.06000	1	0.26000	0.04243	0.06000
Method Group 131.XX PCT			9	0.29001	0.02113	0.01236	9	0.29001	0.02113	0.01236
Phenylalanine, Post-col Ninhydrin Der	994.12	132.00	8	0.98379	0.05757	0.01890	7	0.98219	0.06012	0.01160
Phenylalanine, Pre-col AQC Der		132.05	1	0.97000	0.00000	0.00000	1	0.97000	0.00000	0.00000
Method Group 132.XX PCT			9	0.98226	0.05426	0.01680	8	0.98066	0.05612	0.01015
Proline, Post-col Ninhydrin Der	994.12	133.00	7	1.19390	0.04062	0.02763	7	1.19390	0.04062	0.02763
Proline, Pre-col AQC Der		133.05	1	1.18500	0.03536	0.05000	1	1.18500	0.03536	0.05000
Method Group 133.XX PCT			8	1.19279	0.03902	0.03043	8	1.19279	0.03902	0.03043
Serine, Post-col Ninhydrin Der	994.12	134.00	8	0.96062	0.06579	0.03721	8	0.96062	0.06579	0.03721
Serine, Pre-col AQC Der		134.05	1	0.97000	0.00000	0.00000	1	0.97000	0.00000	0.00000
Method Group 134.XX PCT			9	0.96166	0.06187	0.03308	9	0.96166	0.06187	0.03308
Threonine, Post-col Ninhydrin Der	994.12	135.00	8	0.76894	0.01598	0.01039	8	0.76894	0.01598	0.01039
Threonine, Pre-col AQC Der		135.05	1	0.73500	0.00707	0.01000	1	0.73500	0.00707	0.01000
Method Group 135.XX PCT			9	0.76517	0.01867	0.01034	9	0.76517	0.01867	0.01034
Tryptophan, Alka-Hydrol Post-col Ninhydrin Der	988.15	136.00	2	0.22825	0.01717	0.01350	2	0.22825	0.01717	0.01350
Tryptophan, Alka-Hydrol Rev Phase LC UV		136.01	3	0.26830	0.01024	0.00273	3	0.26830	0.01024	0.00273
Tryptophan, Misc		136.99	1	0.24000	0.00000	0.00000	1	0.24000	0.00000	0.00000
Method Group 136.XX PCT			6	0.25023	0.02238	0.00587	6	0.25023	0.02238	0.00587
Tyrosine, Post-col Ninhydrin Der	994.12	137.00	5	0.67027	0.09028	0.01682	5	0.67027	0.09028	0.01682
Tyrosine, Pre-col AQC Der		137.05	1	0.53500	0.07778	0.11000	1	0.53500	0.07778	0.11000
Method Group 137.XX PCT			6	0.64773	0.09996	0.03235	6	0.64773	0.09996	0.03235

Feed Check Sample No. - 200824 Lamb Starter, Medicated
 Association of American Feed Control Officials

- Pass 1 Results for 203 Labs - - Pass 2 Results for 202 Labs -

Method	AOAC 18th	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range		No. of Labs	Grand Avg.	Std. Dev.	Average Range	
						of Dups	of Dups				of Dups	of Dups
Valine, Post-col Ninhydrin Der	994.12	138.00	8	0.93487	0.07358	0.02580	8	0.93487	0.07358	0.02580	0.02580	0.02580
Valine, Pre-col AQC Der		138.05	1	0.96000	0.01414	0.02000	1	0.96000	0.01414	0.02000	0.02000	0.02000
Method Group 138.XX PCT			9	0.93767	0.06968	0.02516	9	0.93767	0.06968	0.06968	0.02516	0.02516
Taurine, Post-col Ninhydrin Der	994.12	139.00	1	0.03500	0.00707	0.01000	1	0.03500	0.00707	0.00707	0.01000	0.01000
Aflatoxin, Neogen Vera-Tox		300.01	1	0.15000	0.07071	0.10000	1	0.15000	0.07071	0.07071	0.10000	0.10000

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 000.99	--	--	Method 001.07	--	--	Method 001.99	--	--	Method 002.02	--	--	Method 002.06	--
265	0.9600	.71	014	9.2550	.88	615	9.3350 R	.41	Avg	20.885	018	23.195 s	7.27	
--	Method 001.00	--	550	9.2325	.75	672	9.3000	.32	033	20.735	554	22.245 s	3.89	
504	9.8100	1.52	142	9.1000	.47	505	9.2850	.12	043	20.280	733	21.985 s	3.00	
509	9.6650	1.27	591	9.1650	.42	Avg	9.2325	--	036	20.162	735	21.935 A	2.80	
169	9.4750	.95	098	9.1500	.41	729	9.1850	-.11	169	19.930	796	21.915	2.68	
844	9.1950	.48	616	9.1300	.25	631	9.1050	-.27	187	19.770 S	363	21.870	2.52	
309	9.1350	.43	139	9.1000	.14	656	9.0950	-.29	--	Method 002.03	168	21.835	2.40	
016	9.0550	.26	571	9.0950	.11	619	8.8550	-.79	--	Method 002.03	185	21.750	2.09	
Avg	9.1065	--	Avg	9.0751	--	536	8.8250	-.85	536	20.695	630	21.680	1.84	
720	8.8150	-.20	693	9.0600	-.07	630	8.2550	-2.04	--	Method 002.04	616	21.590 R	1.73	
784	8.8050	-.23	177	9.0250	-.28	--	Method 002.00	--	509	23.570 S	660	21.640	1.71	
029	8.6450	-.46	689	9.0000	-.34	015	21.170	.97	405	21.150	590	21.620	1.65	
733	8.4650	-.76	171	9.0500	-.38	028	20.985	.46	Avg	20.800	042	21.615	1.63	
560	7.9600 S	-1.62	083	8.9500	-.61	199	20.880	.37	596	20.450	160	21.585	1.50	
596	7.9500 S	-1.64	178	9.0500	-.69	679	20.865	.17	--	Method 002.05	738	21.565	1.43	
--	Method 001.03	--	669	8.9100	-.77	Avg	20.815	--	620	20.899	345	21.535	1.33	
663	9.3350	1.44	675	8.8900	-.87	826	20.175	-1.78	Avg	20.883	029	21.520	1.32	
688	9.2000	.48	004	8.8900	-.90	--	Method 002.01	--	651	21.411	179	21.525	1.30	
567	9.1500	.37	679	8.9000	-.92	--	Method 002.01	--	621	21.295	645	21.500	1.25	
Avg	9.1280	--	345	8.8600	-.98	652	21.100	1.59	591	21.270	175	21.500	1.25	
686	8.9950	-.89	187	8.8300	-1.11	607	20.982	.84	633	21.071	065	21.510	1.23	
731	8.9600	-1.13	074	8.8150	-1.23	710	20.945	.65	178	21.000	233	21.470	1.09	
--	Method 001.05	--	588	8.7850	-1.33	672	20.885	.34	622	20.988	106	21.465	1.08	
610	9.1000	-.71	045	8.7300	-1.57	731	20.885	.32	177	20.915	417	21.435	.99	
--	Method 001.07	--	353	8.6150	-2.09	Avg	20.828	--	620	20.899	573	21.440	.98	
307	10.225 s	7.47	038	8.5850 R	-2.36	723	20.815	-.08	Avg	20.883	047	21.300	.86	
581	9.4200	1.58	015	8.3750 R	-3.33	043	20.770	-.46	350	20.868	190	21.405	.86	
199	9.3700	1.34	366	8.2500 s	-4.07	653	20.765	-.77	083	20.855	843	21.385	.84	
035	9.3600	1.30	--	Method 001.08	--	656	20.585	-1.35	552	20.860	098	21.400	.84	
089	9.3600	1.29	590	9.3600	.76	716	20.550	-1.73	689	20.800	122	21.395	.83	
413	9.3500	1.27	Avg	9.0780	--	714	20.180 s	-3.63	354	20.745	784	21.395	.82	
559	9.3400	1.20	676	8.7960	-.96	--	Method 002.02	--	039	20.736	693	21.220 R	.81	
607	9.3165	1.10	--	Method 001.99	--	048	21.860	1.55	194	20.655	300	21.380	.78	
049	9.1800 R	1.03	665	10.020	1.65	307	21.500	1.07	722	20.561	035	21.365	.72	
048	9.3000	1.02	405	10.000	1.60	042	21.305	.76	663	20.530	791	21.363	.70	
			357	9.4650	.49	152	21.150	.58	596	20.450 R	016	21.350	.68	
			096	9.4000	.41	669	21.040	.39	674	20.440	787	21.350	.66	

* 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 002.11	--	--	Method 003.00	--	--	Method 003.01	--
164	21.325	.57	520	21.125	-.44	505	20.900	-1.01	178	21.750	1.97	Avg	3.6206	
646	21.285	.48	019	21.165	-.45	366	20.900	-1.19	665	21.550	1.53	048	3.6150	-.04
003	21.290	.45	598	21.045	-.45	720	20.820	-1.25	567	21.150	.62	194	3.6150	-.08
740	21.285	.44	014	21.045	-.45	692	20.850	-1.26	727	21.035	.36	354	3.5850	-.17
121	21.180	.43	687	21.050	-.45	119	20.775	-1.40	Avg	20.877		345	3.5600	-.29
001	21.285	.43	354	21.040	-.46	144	20.775	-1.40	731	20.870	-.09	164	3.5500	-.34
051	21.265	.42	017	21.055	-.46	043	20.820 R	-1.47	011	20.700	-.40	179	3.5430	-.37
775	21.200	.38	009	21.040	-.47	045	20.950 R	-1.47	688	20.650	-.52	152	3.5000	-.58
205	21.240	.36	686	21.045	-.48	148	20.690	-1.71	672	20.645	-.53	307	3.5500 R	-.79
171	21.250	.35	504	21.130	-.48	674	20.710	-1.71	724	20.480	-.89	026	3.4550	-.81
413	21.250	.35	813	21.025	-.52	242	20.625	-1.95	631	20.430	-1.01	616	3.4250	-.94
672	21.250	.35	615	21.115	-.55	559	20.590	-2.07	588	20.385	-1.11	615	3.3600	-1.28
574	21.250	.32	096	21.075	-.58	588	20.525	-2.30	--	Method 002.99	--	353	3.3050	-1.52
013	21.170	.22	142	21.000	-.60	596	20.450	-2.62	305	21.295	1.38	337	3.2650	-1.80
670	21.170	.14	298	21.000	-.60	004	20.520 s	-2.69	006	21.166	.98	509	3.1300	-2.35
037	21.205	.14	021	21.015	-.61	539	20.240 s	-3.33	034	21.085	.26	--	Method 003.01	--
820	21.175	.09	589	21.000	-.61	676	19.610 s	-5.68	643	21.065	.18	504	3.5300	-.71
089	21.170	.01	357	21.000	-.63	--	Method 002.08	--	Avg	21.023		--	Method 003.06	--
Avg	21.167		011	20.995	-.64	610	21.150	1.27	724	20.860	-.67	574	5.1700 s	10.14
294	21.140	-.10	626	20.975	-.73	062	21.053	1.05	847	20.740	-1.21	199	3.8850	2.02
511	21.135	-.12	309	21.145	-.74	Avg	20.780		536	20.950	-1.27	688	3.7500	1.29
760	21.150	-.12	512	20.950	-.79	208	20.650	-.47	--	Method 003.00	--	294	3.7250	1.12
049	21.160	-.15	265	20.950	-.80	563	20.535	-.84	596	3.9600	1.62	689	3.7000	.97
010	21.120	-.17	571	20.943	-.80	160	20.510	-.93	265	3.6950 R	1.55	185	3.6200 R	.85
138	21.140	-.17	229	20.940	-.82	--	Method 002.10	--	106	3.9250	1.46	588	3.6550	.75
824	21.150	-.19	650	20.990	-.85	629	21.145	1.33	039	3.8495	1.09	559	3.6050	.46
619	21.150	-.19	358	20.930	-.87	675	21.060	1.05	033	3.8250	1.01	229	3.6000	.42
610	21.150	-.19	550	20.923	-.87	619	20.900	.61	015	3.7550 R	.94	009	3.5550	.35
682	21.110	-.20	263	20.923	-.88	546	20.890	.48	563	3.8050	.89	003	3.5700	.25
199	21.145	-.21	337	20.940	-.89	Avg	20.748		190	3.7850	.79	669	3.5700	.25
038	21.120	-.22	567	21.000	-.93	688	20.650	-.37	726	3.7671	.70	122	3.5300	.23
510	21.100	-.24	226	21.000	-.93	631	20.585	-.56	175	3.7450	.67	552	3.5650	.21
809	21.095	-.30	027	20.965	-.93	596	20.450	-1.12	142	3.7500	.66	581	3.5600	.19
353	21.085	-.31	100	20.905	-.94	729	20.300	-1.53	187	3.7500	.63	Avg	3.5277	
026	21.075	-.33	553	20.914	-.94	139	3.7100	.45	139	3.7100	.45	682	3.5100	-.10
110	21.110	-.35	108	21.040 R	-.94	035	3.6750	.31	035	3.6750	.31	148	3.4900	-.21
765	21.070	-.39	139	20.905	-.94	309	3.6815	.31	309	3.6815	.31	511	3.4850	-.24
407	21.055	-.41	036	20.905	-1.00	--	Method 002.06	--	--	Method 002.11	--	--	Method 003.00	--
673	21.100	-.43	074	21.040 R	-1.00	--	Method 002.06	--	--	Method 002.11	--	--	Method 003.00	--

* 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 003.10	--	--	Method 003.11	--	--	Method 003.99	--	--	Method 004.01	--
169	3.4450	-.49	520	3.6850 R	2.08	688	3.1000	-.76	738	3.6200	.41	366	6.5000 S	2.09
847	3.3950	-.79	672	3.7000	1.78	672	3.0850	-.85	Avg	3.5725		693	6.2150	.71
731	3.3700	-.97	098	3.6300	1.46	178	2.9500 R	-1.70	047	3.5350	-.33	Avg	6.2150	
305	3.3200	-1.17	693	3.6550	1.24	588	2.9150	-1.90	034	3.4900	-.71	--	Method 004.03	--
074	3.2450	-1.60	366	3.6000	1.13	--	Method 003.12	--	710	3.4000	-1.50	045	5.4000	1.31
621	3.0800	-2.53	178	3.6000	1.13	670	4.1400	1.26	546	3.3750 R	-1.90	Avg	5.1167	
--	Method 003.09	--	573	3.6030	.83	Avg	3.8450		--	Method 004.00	--	679	5.0900	-.18
656	4.4100 s	4.82	045	3.6000	.80	357	3.7500	-.45	345	5.9250	2.08	619	4.8600	-.86
505	3.9350	2.26	298	3.5900	.73	171	3.6450	-.85	265	5.7050	1.68	--	Method 004.06	--
590	3.6150 R	1.20	100	3.5500	.47	--	Method 003.13	--	337	5.5450	1.43	591	6.0450	2.67
029	3.7600	1.11	233	3.5150	.24	--	Method 003.13	--	511	5.5000	1.31	552	5.5600	1.29
358	3.7350	1.10	629	3.5150	.13	205	3.6495	1.33	208	5.2350	.85	722	5.5242	1.12
004	3.7350	.95	062	3.5110	.10	646	3.5600	.69	509	5.2100	.79	674	5.5150	1.09
722	3.7035	.83	242	3.5100	.09	Avg	3.4669		596	5.2000	.76	716	5.5050	1.07
098	3.7000	.76	119	3.5050	.06	028	3.4500	-.32	563	5.1850	.75	672	5.2000 R	.91
673	3.6500	.55	607	3.4876	-.13	553	3.3450	-.95	559	5.0550	.51	178	5.2000 R	.91
038	3.6450	.48	042	3.4750	-.23	660	3.3300	-1.12	169	5.0250	.45	029	5.3600	.87
675	3.6250	.38	363	3.4600	-.31	--	Method 003.14	--	164	4.9500	.33	676	5.4015	.79
354	3.5700	.06	089	3.4500	-.39	021	3.9100	1.53	194	4.8100	.06	588	5.3650	.65
Avg	3.5684		554	3.4450	-.73	049	3.8150	1.19	Avg	4.7766		205	5.2500	.32
350	3.5641	-.03	208	3.4000	-.82	019	3.7200	1.07	190	4.7000	-.14	723	5.2350	.27
633	3.5613	-.06	051	3.4050	-.83	413	3.6500	.50	298	4.6400	-.25	038	5.2250	.24
651	3.5555	-.14	598	3.3700	-1.05	110	3.6300	.39	726	4.6233	-.28	607	5.1697	.07
263	3.5261	-.24	596	3.4150	-1.07	550	3.5900	.25	171	4.6250	-.29	Avg	5.1482	
226	3.5500	-.31	679	3.2600	-1.91	Avg	3.5354		309	4.6100	-.31	621	5.1300	-.06
510	3.5500	-.31	619	3.2250	-2.19	144	3.5350	-.02	042	4.6150	-.36	656	5.1000	-.19
001	3.5150	-.40	160	2.9900 s	-4.06	686	3.4850	-.21	048	4.5650	-.41	633	5.0575	-.27
620	3.4780	-.52	591	2.4100 s	-8.65	567	3.4500	-.40	226	4.5500	-.42	354	5.0300	-.35
653	3.4500	-.68	--	Method 003.11	--	185	3.3900	-.60	354	4.4500	-.59	350	4.9613	-.56
674	3.5200	-.69	724	3.5200	1.81	407	3.1850	-1.41	175	4.4800	-.60	673	4.9500	-.61
121	3.2900	-1.61	731	3.3750	.92	175	3.0650	-1.89	199	4.4250	-.63	688	4.9500	-.61
723	3.2750	-1.68	727	3.3026	.48	108	3.3300 R	-2.18	009	4.3200	-.85	098	5.0600	-.68
630	3.1800	-2.25	011	3.3000	.46	--	Method 003.99	--	015	4.3200	-.89	590	4.8450	-.91
714	2.6650 s	-5.19	665	3.2250	.09	724	4.4850 s	7.90	510	4.2000	-1.06	653	4.8400	-.92
--	Method 003.09	--	Avg	3.2243		631	3.7300	1.37	504	4.2550 R	-1.09	731	4.7700	-1.17
--	Method 003.09	--	631	3.2200	-.03	536	3.6600	.78	039	3.8855	-1.61	710	4.7050	-1.32
--	Method 003.09	--	567	3.2000	-.15	--	Method 003.14	--	353	3.3900	-2.53	689	4.7000	-1.33

* 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 004.06	--	--	Method 004.07	--	--	Method 005.00	--	--	Method 005.00	--	--	Method 005.00	--
610	4.6000	-1.66	536	4.2000	-.97	682	7.1000	1.31	675	6.8750	.42	083	6.6500	-.51
670	4.5650 R	-2.00	413	4.0500	-1.16	029	7.0800	1.23	765	6.8700	.40	138	6.6250	-.58
598	3.5800 s	-4.67	307	4.0000	-1.26	723	7.0600	1.15	559	6.8350	.39	353	6.6250	-.58
--	Method 004.07	--	242	3.9550	-1.37	729	7.0450	1.10	045	6.8500	.38	733	6.6300	-.60
144	5.8000	2.56	160	3.8300	-1.63	622	7.0363	1.06	357	6.8500	.38	630	6.6150	-.61
096	5.5000 R	2.03	100	3.8150	-1.66	669	7.0350	1.05	607	6.8476	.31	199	6.6050	-.65
004	5.4800	1.88	--	Method 004.11	--	337	7.0300	1.04	548	6.8428	.29	033	6.5900	-.71
407	5.4550	1.83	672	5.6600	1.84	588	7.0250	1.03	651	6.8430	.29	119	6.5900	-.71
708	5.3900	1.69	688	5.3500	1.02	265	7.0250	1.01	693	6.8250	.26	164	6.5900	-.71
631	5.1400 R	1.32	631	5.3150	.92	148	7.0150	.97	760	6.8150	.23	194	6.5800	-.75
185	5.1350	1.15	665	5.1050	.37	567	6.9000 R	.95	144	6.8250	.22	089	6.5700	-.79
021	4.6500 R	.96	178	5.1000	.35	672	7.0000	.91	187	6.8150	.18	026	6.5650	-.81
643	5.0200	.91	Avg	4.9701		152	6.9950	.89	139	6.8100	.17	178	6.7000 R	-.84
581	4.9650	.80	724	4.8950	-.25	620	6.9753	.82	171	6.8050	.15	650	6.5550	-.85
610	4.9500	.76	011	4.8000	-.45	646	6.9700	.80	633	6.8053	.14	550	6.5525	-.86
089	4.8600	.57	727	4.7908	-.48	656	6.9700	.79	294	6.7900	.11	121	6.5490	-.87
686	4.8000	.44	588	4.6850	-.76	591	6.9600	.75	229	6.7750	.10	001	6.5200	-1.04
110	4.7900	.44	731	4.6700	-.82	307	6.9500	.74	354	6.7900	.09	175	6.5050	-1.05
554	4.6000	.43	567	4.3000	-1.80	062	6.9320	.72	Avg	6.7695		735	6.5100	-1.13
019	4.7050	.41	--	Method 004.99	--	660	6.8500 R	.71	510	6.7550	-.06	616	6.5700 R	-1.15
028	4.7000	.31	626	4.9500	1.11	740	6.9450	.70	653	6.7550	-.11	563	6.4750	-1.17
520	4.6150	.19	724	4.8350	.72	629	6.9350	.69	305	6.7400	-.12	813	6.4650	-1.21
042	4.6600	.14	Avg	4.6225		722	6.9383	.67	539	6.7350	-.17	027	6.4550	-1.24
Avg	4.5943		629	4.4000	-.76	185	6.9300	.65	689	6.7650	-.18	309	6.4550	-1.26
682	4.5000	-.20	034	4.3050	-1.08	684	6.8800	.62	160	6.7300	-.20	598	6.4500	-1.27
035	4.5000	-.20	--	Method 005.00	--	350	6.9157	.58	505	6.7150	-.22	596	6.5000 R	-1.33
013	4.5000	-.21	520	7.3400 s	3.79	004	6.8500	.57	108	6.7600	-.24	645	6.4500 R	-1.40
098	4.4800	-.24	720	7.4550	2.72	358	6.8850	.57	552	6.7050	-.26	809	6.4150	-1.40
229	4.4700	-.28	679	7.3300	2.22	686	6.9100	.56	363	6.6950	-.30	179	6.4140	-1.41
567	4.5000	-.29	407	7.3050	2.12	674	6.9000	.55	643	6.6850	-.34	110	6.4150	-1.41
033	4.4800	-.30	676	7.2880	2.05	679	6.9000	.52	298	6.6800	-.36	015	6.3950	-1.48
026	4.4200	-.39	226	7.2500	1.91	688	6.9000	.52	631	6.6850	-.36	051	6.3900	-1.51
505	4.3950	-.43	726	7.2093	1.74	098	6.7700 R	.51	048	6.6650	-.41	820	6.3700	-1.58
646	4.3500	-.52	619	7.1650	1.59	710	6.8950	.50	300	6.7350	-.44	169	6.3650	-1.60
003	4.3400	-.54	504	7.1250	1.42	035	6.8900	.48	242	6.6500	-.47	417	6.3650	-1.60
074	4.2700	-.72	413	7.1000	1.37	731	6.8850	.46	670	6.6550	-.47	796	6.3650	-1.64
294	4.1950	-.85	--	Method 005.00	--	345	6.8800	.44	366	6.7000	-.48	049	6.3400	-1.70
121	4.2200	-.92	629	4.4000	-.76	847	6.8100	.43	100	6.7650 R	-.50	615	6.3250	-1.78
			034	4.3050	-1.08	784	6.8450	.42	205	6.6425	-.51	019	6.3000	-1.87

* 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 005.99	--	--	Method 008.08	--	--	Method 009.09	--	--	Method 010.11	--
621	6.2950	-1.88	208	6.7350	-0.66	357	6.1000	-0.15	674	14.695	1.88	688	9.4500	-0.77
775	6.1900	-2.29	122	6.4900	-2.00	674	5.9100	-0.34	354	14.350	1.50	588	9.3300	-1.16
021	5.8450 s	-3.69	--	Method 006.05	--	164	5.8500	-0.41	536	13.900 R	1.29	567	9.3000	-1.21
142	5.3500 s	-5.62	710	6.6650	.71	185	5.5850	-0.82	164	14.050	1.10	--	Method 010.99	--
--	Method 005.01	--	004	5.4800	-0.94	004	5.4800	-0.94	357	13.800	.80	417	11.060 s	5.79
826	6.1450	.71	160	5.4600	-0.97	160	5.4600	-0.97	294	13.575	.53	714	9.9420	1.89
--	Method 005.02	--	294	5.3100	-1.19	294	5.3100	-1.19	049	13.325	.38	847	9.5900	.89
179	6.8425	1.48	653	5.2800	-1.23	653	5.2800	-1.23	Avg	13.139		673	9.5000	.51
726	6.6103	.94	686	5.0000	-1.63	686	5.0000	-1.63	581	12.995	-0.20	724	9.3900	.17
038	6.7100	.90	--	Method 008.99	--	669	13.110	-0.28	669	13.110	-0.28	Avg	9.3344	
171	6.7150	.74	646	6.9200	1.06	185	12.840	-0.36	185	12.840	-0.36	716	9.3000	-0.11
148	6.6800	.55	307	6.6500	.62	510	12.800	-0.43	510	12.800	-0.43	726	9.2570	-0.26
405	6.5750	.03	Avg	6.3563		160	12.575	-0.69	160	12.575	-0.69	652	9.3000	-0.33
--	Method 005.03	--	358	6.1550	-0.39	358	6.1550	-0.39	413	12.650	-0.80	337	9.1650	-0.60
738	6.0250	-0.71	110	5.7000	-1.36	110	5.7000	-1.36	037	12.420	-0.88	037	9.1950	-0.63
--	Method 005.11	--	504	6.5600	-0.26	504	6.5600	-0.26	686	11.990	-1.39	168	8.7050	-1.97
178	8.9500 S	2.32	045	6.3500	-1.15	--	Method 009.04	--	653	11.910	-1.48	--	Method 011.01	--
688	8.7000 S	1.94	619	6.1650	-2.07	726	17.659 S	3.18	--	Method 009.99	--	108	11.110	2.68
588	8.0050 S	1.47	226	6.4000 R	-2.21	504	15.115	.71	619	19.650 S	20.06	809	11.100	2.63
724	8.2550 S	1.29	353	6.1600 R	-2.92	Avg	15.115		110	12.800	1.03	305	10.925	2.20
672	7.8950 S	.76	590	5.4500 s	-5.70	--	Method 009.07	--	643	12.555	.58	775	10.650 R	1.73
631	7.6750	.43	--	Method 008.05	--	179	15.295	1.55	Avg	12.490		242	10.625	1.44
Avg	7.0420		265	9.6500 S	.00	309	15.050 R	1.39	646	12.115	-1.05	110	10.580	1.33
727	7.3379	-0.08	--	Method 008.08	--	045	15.000	1.29	--	Method 010.03	--	813	10.570	1.31
731	6.7950	-0.88	510	7.6500	2.20	307	14.100	.49	027	7.4400 S	.00	738	10.550	1.25
665	6.3600	-1.52	669	7.0600	1.38	693	13.975	.38	546	6.8750 S	.00	098	10.450 R	1.17
--	Method 005.99	--	536	6.8200	1.07	226	13.900	.36	826	7.6000 S	.00	574	10.355 R	1.13
652	7.1500 R	1.87	001	6.8600	1.06	Avg	13.549		Avg	0.0000		796	10.465	1.03
724	7.1800	1.84	693	6.6150 R	1.01	353	13.420	-0.21	--	Method 010.11	--	643	10.450	1.00
716	7.0000	.84	049	6.5550	.64	038	13.225	-0.30	178	10.200	1.56	559	10.445	.99
096	6.9500	.63	033	6.4000	.61	187	12.755	-0.71	731	10.020	1.00	233	10.430	.95
673	6.9000	.28	037	6.3650	.34	098	12.000	-1.38	724	9.9900	.90	675	10.405	.89
574	6.8650	.12	581	6.3300	.33	663	11.820	-1.54	631	9.9050	.63	735	10.365	.78
Avg	6.8490		413	6.2500	.19	--	Method 009.04	--	Avg	9.6984		824	10.350	.75
536	6.8350	-0.21	354	6.2250	.17	672	9.5700	-0.40	672	9.5700	-0.40	573	10.341	.72
663	6.7700	-0.44	Avg	6.1311		727	9.5204	-0.55	727	9.5204	-0.55	205	10.315	.70
034	6.7650	-0.49	--	Method 008.05	--	265	9.6500 S	.00	--	Method 009.99	--	520	10.115 R	.66

* 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 011.01	--	--	Method 011.01	--	--	Method 012.00	--	--	Method 013.02	--	--	Method 013.10	--
653	10.310	.64	229	9.8900	-.41	673	33.450	-1.31	100	5.0400	.89	716	4.1100	-.08
208	10.300	.62	309	9.8950	-.42	178	31.000 s	-5.52	760	4.9800	.77	591	4.0650	-.32
121	10.290	.61	620	9.8786	-.44	--	Method 012.01	--	164	4.9700	.75	610	3.9000	-.61
646	10.280	.58	650	9.8850	-.50	--	Method 012.01	--	643	4.9300	.67	062	3.8305	-.73
138	10.275	.56	760	9.8350	-.56	686	32.030	1.02	208	4.7100	.25	353	3.8450	-.73
144	10.075 R	.52	765	9.9300	-.59	185	30.925	.20	735	4.7000	.23	656	3.6500	-1.19
100	10.240	.49	358	9.9400 R	-.69	Avg	30.802		765	4.6950	.23	663	3.4300	-1.79
740	10.240	.47	591	9.7550	-.75	096	29.450	-1.19	051	4.6450	.11	714	3.4080	-1.83
722	10.238	.46	563	9.7350	-.81	--	Method 012.03	--	675	4.6100	.07	--	Method 013.11	--
185	10.175	.33	298	9.6900	-.92	098	33.125	.87	Avg	4.5926		588	3.1750	.71
171	10.180	.32	062	9.6805	-.99	Avg	29.940		824	4.5500	-.13	--	Method 013.12	--
194	10.155	.25	598	9.6450	-1.03	684	26.755	-.87	650	4.4900	-.21	672	3.3700	.76
350	10.148	.24	552	9.6400	-1.05	--	Method 012.04	--	813	4.4450	-.37	Avg	3.3425	
791	10.120	.18	674	9.6200	-1.12	051	35.985	1.47	033	4.4650	-.46	731	3.3150	-.96
122	10.115	.18	710	9.6050	-1.13	Avg	32.468		733	4.2900	-.60	--	Method 013.13	--
539	10.115	.16	363	9.5400	-1.30	353	32.160	-.13	229	4.2750	-.66	042	4.8350	.71
160	10.110	.15	300	9.9050 R	-1.37	160	31.975	-.21	616	4.2650	-.67	--	Method 013.99	--
026	10.100	.12	621	9.4850	-1.43	510	29.750	-1.13	548	4.2420	-.84	689	4.2000	.71
596	10.100	.11	152	9.4500	-1.52	--	Method 012.11	--	026	4.1600	-.86	--	Method 015.00	--
843	10.075	.10	294	9.3200	-1.85	731	35.920	1.04	016	3.8850	-1.42	520	103.00	1.72
033	10.090	.09	670	9.3100	-1.87	588	34.645	.19	775	3.8000	-1.58	353	87.395 R	.76
051	10.090	.09	407	9.2550	-2.01	Avg	34.437		337	3.1300	-2.90	154	87.000	.69
164	10.080	.07	645	9.2500	-2.03	672	32.745	-1.18	--	Method 013.10	--	616	85.350	.58
119	10.060	.03	226	8.9500	-2.78	--	Method 012.99	--	185	4.8100	1.79	345	82.410	.39
Avg	10.055		--	Method 011.99	--	619	48.400 S	.00	096	4.1950 R	.96	560	80.200	.25
354	10.035	-.05	034	9.8500	1.03	--	Method 013.02	--	177	4.4650	.90	169	78.850	.16
651	10.028	-.09	265	9.4600	.21	796	5.3550	1.51	660	4.3450	.68	510	78.000	.10
633	10.039	-.10	Avg	9.3983		171	5.3150	1.44	652	4.3500	.62	011	77.951	.10
723	10.015	-.10	684	8.8850	-1.18	809	5.1100 R	1.31	160	4.3400	.58	Avg	76.415	
148	10.020	-.13	--	Method 012.00	--	826	5.1950	1.21	539	4.3000	.50	021	69.650	-.44
175	10.000	-.14	672	34.900	1.31	791	5.1900	1.19	673	4.2000	.34	164	50.500	-1.68
682	9.9900	-.16	548	34.755	1.07	065	5.1300	1.09	672	4.1500	.16	110	47.650	-1.87
021	9.9850	-.18	567	34.500	.80	645	5.1050	1.03	688	4.1500	.16	--	Method 013.99	--
511	10.000	-.22	Avg	34.158		354	5.0400	.89	Avg	4.1146		--	Method 013.13	--
622	9.9700	-.23	689	33.900	-.57	--	Method 012.99	--	185	4.8100	1.79	616	85.350	.58
179	10.020	-.24	559	33.900	-.57	672	32.745	-1.18	417	4.7150	1.55	345	82.410	.39
548	9.9682	-.26	354	33.700	-.80	--	Method 012.11	--	096	4.1950 R	.96	560	80.200	.25
510	9.9500	-.29	--	Method 012.00	--	796	5.3550	1.51	177	4.4650	.90	169	78.850	.16
660	9.9300	-.34	034	9.8500	1.03	171	5.3150	1.44	660	4.3450	.68	510	78.000	.10
			265	9.4600	.21	809	5.1100 R	1.31	652	4.3500	.62	011	77.951	.10
			Avg	9.3983		826	5.1950	1.21	160	4.3400	.58	Avg	76.415	
			684	8.8850	-1.18	791	5.1900	1.19	539	4.3000	.50	021	69.650	-.44
			--	Method 011.99	--	065	5.1300	1.09	673	4.2000	.34	164	50.500	-1.68
			034	9.8500	1.03	645	5.1050	1.03	672	4.1500	.16	110	47.650	-1.87
			265	9.4600	.21	354	5.0400	.89	688	4.1500	.16	--	Method 013.99	--
			Avg	9.3983		--	Method 012.99	--	Avg	4.1146		--	Method 015.00	--
			684	8.8850	-1.18	672	32.745	-1.18	337	3.1300	-2.90	520	103.00	1.72
			--	Method 012.00	--	--	Method 012.99	--	--	Method 013.10	--	353	87.395 R	.76
			672	34.900	1.31	--	Method 012.99	--	185	4.8100	1.79	154	87.000	.69
			548	34.755	1.07	--	Method 012.99	--	417	4.7150	1.55	616	85.350	.58
			567	34.500	.80	619	48.400 S	.00	096	4.1950 R	.96	345	82.410	.39
			Avg	34.158		--	Method 013.02	--	177	4.4650	.90	560	80.200	.25
			689	33.900	-.57	796	5.3550	1.51	660	4.3450	.68	169	78.850	.16
			559	33.900	-.57	171	5.3150	1.44	652	4.3500	.62	510	78.000	.10
			354	33.700	-.80	809	5.1100 R	1.31	160	4.3400	.58	011	77.951	.10
			--	Method 012.00	--	826	5.1950	1.21	539	4.3000	.50	Avg	76.415	
			034	9.8500	1.03	791	5.1900	1.19	673	4.2000	.34	021	69.650	-.44
			265	9.4600	.21	065	5.1300	1.09	672	4.1500	.16	164	50.500	-1.68
			Avg	9.3983		645	5.1050	1.03	688	4.1500	.16	110	47.650	-1.87
			684	8.8850	-1.18	354	5.0400	.89	Avg	4.1146		--	Method 013.99	--
			--	Method 012.00	--	--	Method 012.99	--	--	Method 013.10	--	--	Method 015.00	--
			672	34.900	1.31	672	32.745	-1.18	185	4.8100	1.79	520	103.00	1.72
			548	34.755	1.07	--	Method 012.99	--	417	4.7150	1.55	353	87.395 R	.76
			567	34.500	.80	--	Method 012.99	--	096	4.1950 R	.96	154	87.000	.69
			Avg	34.158		619	48.400 S	.00	177	4.4650	.90	616	85.350	.58
			689	33.900	-.57	--	Method 013.02	--	660	4.3450	.68	345	82.410	.39
			559	33.900	-.57	796	5.3550	1.51	652	4.3500	.62	560	80.200	.25
			354	33.700	-.80	171	5.3150	1.44	160	4.3400	.58	169	78.850	.16
			--	Method 012.00	--	809	5.1100 R	1.31	539	4.3000	.50	510	78.000	.10
			034	9.8500	1.03	826	5.1950	1.21	673	4.2000	.34	021	69.650	-.44
			265	9.4600	.21	791	5.1900	1.19	672	4.1500	.16	164	50.500	-1.68
			Avg	9.3983		065	5.1300	1.09	688	4.1500	.16	110	47.650	-1.87
			684	8.8850	-1.18	645	5.1050	1.03	Avg	4.1146		--	Method 013.99	--
			--	Method 012.00	--	354	5.0400	.89	--	Method 013.10	--	--	Method 015.00	--
			672	34.900	1.31	--	Method 012.99	--	185	4.8100	1.79	520	103.00	1.72
			548	34.755	1.07	672	32.745	-1.18	417	4.7150	1.55	353	87.395 R	.76
			567	34.500	.80	--	Method 012.99	--	096	4.1950 R	.96	154	87.000	.69
			Avg	34.158		619	48.400 S	.00	177	4.4650	.90	616	85.350	.58
			689	33.900	-.57	--	Method 013.02	--	660	4.3450	.68	345	82.410	.39
			559	33.900	-.57	796	5.3550	1.51	652	4.3500	.62	560	80.200	.25
			354	33.700	-.80	171	5.3150	1.44	160	4.3400	.58	169	78.850	.16
			--	Method 012.00	--	809	5.1100 R	1.31	539	4.3000	.50	510	78.000	.10
			034	9.8500	1.03	826	5.1950	1.21	673	4.2000	.34			

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 016.00	--	--	Method 019.01	--	--	Method 019.01	--	--	Method 019.05	--	--	Method 019.09	--
619	0.0270	.71	720	1.6050 s	4.20	039	1.3410	-.56	029	1.3850	.40	028	1.4450	1.07
--	Method 017.00	--	337	1.5550 s	3.50	563	1.3414	-.61	298	1.3800	.35	199	1.4285	.77
353	14.700	.84	504	1.4885	2.19	653	1.3355	-.65	100	1.3800	.35	017	1.4250	.71
560	13.950	.69	013	1.4550 R	2.02	305	1.3350	-.67	553	1.3750	.34	027	1.4150	.59
045	13.500	.60	646	1.4750	1.86	307	1.3200	-1.00	074	1.3750	.34	366	1.4150	.53
345	12.745	.44	536	1.4700	1.81	026	1.3150	-1.03	004	1.3675	.17	037	1.4150	.52
510	12.130	.31	588	1.4565	1.53	670	1.3050	-1.21	Avg	1.3604		154	1.4142	.51
693	11.900	.28	108	1.3850 R	1.37	505	1.2750	-1.75	011	1.3585	-.22	035	1.3900	.37
Avg	10.636		674	1.3750 R	1.35	710	1.2750	-1.75	294	1.3600	-.32	190	1.4050	.35
358	5.8900	-.98	018	1.3800 R	1.27	142	1.2000	-3.09	242	1.3400	-.33	096	1.4000	.25
294	0.2755	-2.15	656	1.4400	1.24	687	1.2000 A	-3.11	610	1.3390	-.36	021	1.3960	.18
--	Method 017.99	--	019	1.3800 R	.91	612	1.1100 s	-4.80	083	1.3250	-.58	357	1.3900	.07
307	14.000	.71	354	1.4150	.78	--	Method 019.03	--	229	1.3250	-.58	Avg	1.3863	
--	Method 018.01	--	650	1.3950	.76	--	Method 019.03	--	682	1.3200	-.65	668	1.3750	-.22
716	0.0695	-.71	675	1.4050	.61	686	1.5200	1.56	550	1.3145	-.75	726	1.3696	-.31
--	Method 018.02	--	098	1.3850	.51	033	1.4525	.53	089	1.2850	-1.22	353	1.3650	-.40
154	0.0870	.59	139	1.3990	.49	048	1.4300	.24	548	1.2896	-1.24	560	1.3850	-.46
Avg	0.0825		036	1.3985	.48	307	1.4200	.16	051	1.2950 R	-1.28	616	1.3800	-.56
011	0.0780	-1.07	035	1.3950	.43	Avg	1.4180		358	1.2750	-1.44	572	1.3600	-.60
--	Method 019.00	--	208	1.3925	.40	043	1.4150	-.09	645	1.2453	-1.86	186	1.3450	-.76
716	1.6000 S	3.36	631	1.3900	.37	036	1.3935	-.38	405	1.2400	-1.95	345	1.3350	-.94
194	1.4550	1.53	205	1.3900	.33	026	1.2950	-1.88	407	1.2200	-2.26	309	1.3100	-1.39
043	1.4300	1.27	178	1.3900	.33	--	Method 019.05	--	511	1.0800 s	-4.53	693	1.3025	-1.55
679	1.3950	.78	350	1.3885	.33	003	1.4500 R	2.05	--	Method 019.08	--	106	1.2650	-2.22
175	1.3550 R	.63	722	1.3866	.27	520	1.4500 R	1.65	673	1.4500	1.67	110	1.2045 s	-3.32
651	1.3650	.40	038	1.3850	.25	510	1.4500	1.44	138	1.4000	.62	038	1.2050 s	-3.44
689	1.3500	.24	363	1.3800	.23	413	1.4500	1.44	607	1.3895	.24	--	Method 019.99	--
Avg	1.3336		233	1.3800	.15	185	1.4480	1.42	Avg	1.3878		588	1.4925 S	2.61
622	1.3225	-.14	619	1.3800	.15	598	1.4350	1.21	689	1.3800	-.57	724	1.5200	1.58
633	1.3009	-.41	591	1.3750	.11	265	1.4250	1.04	729	1.3750	-.74	629	1.3950	.31
620	1.2575	-.96	Avg	1.3718		208	1.4205	.97	723	1.3500	-1.03	034	1.4000	.15
621	1.2550	-.99	669	1.3650	-.15	171	1.4100	.82	590	1.3700	-1.16	Avg	1.3938	
552	1.2050	-1.62	263	1.3598	-.22	512	1.3995	.67	--	Method 019.09	--	121	1.3640	-.44
--	Method 019.00	--	014	1.3625	-.25	187	1.4000	.64	--	Method 019.09	--	692	1.2900	-1.30
194	1.4550	1.53	731	1.3600	-.28	148	1.3965	.58	160	1.5601 s	3.20	016	0.9845 S	-5.13
043	1.4300	1.27	065	1.3525	-.35	164	1.3850	.57	042	1.5400	2.80	665	0.9000 S	-6.18
679	1.3950	.78	152	1.3500	-.43	226	1.3900	.50	567	1.4400 R	1.22			
175	1.3550 R	.63	169	1.3450	-.49	144	1.3850	.46	045	1.4300 R	1.08			
651	1.3650	.40	001	1.3445	-.52									

* 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 020.00	--	--	Method 021.02	--	--	Method 022.03	--	--	Method 022.05	--	--	Method 025.01	--
164	3.3000	.96	693	0.9500	-1.14	029	17.150 s	3.01	110	14.705 R	1.29	354	289.75	1.12
Avg	3.0480		616	0.0000 s	-4.11	185	17.500	2.36	353	14.675	.51	563	287.18	.98
722	2.7960	-.76	--	Method 021.99	--	550	17.182	2.11	037	14.650	.41	619	283.00	.76
--	Method 020.01	--	017	1.5000 R	2.51	598	16.500	1.65	038	14.700	.38	504	281.50	.69
154	4.5000	1.14	721	1.4850	.96	265	16.000 R	1.44	199	14.885	.38	720	279.10	.56
021	4.1500	.78	607	1.3318	.32	144	15.700	1.15	726	14.761	.31	689	278.00	.50
096	4.0000	.62	Avg	1.2758		004	15.500	.97	160	14.725	.22	038	275.00	.40
Avg	3.3988		610	1.0105	-1.21	083	15.000	.54	169	14.700	.20	669	269.08	.06
011	3.3675	-.19	--	Method 022.01	--	520	15.000	.54	560	14.700	.17	208	268.50	.03
560	2.9350 R	-.61	014	23.000 s	5.93	407	14.815	.41	Avg	14.552		Avg	268.41	
668	2.2300	-1.21	563	18.140	2.37	242	14.500	.40	106	14.450	-.13	591	267.70	-.08
510	2.1450	-1.30	675	17.800	2.19	100	14.500	.40	021	14.450	-.42	013	268.00	-.11
--	Method 020.99	--	038	16.500	1.23	226	14.500	.40	572	14.150	-.49	731	267.85	-.23
616	3.8800	.71	689	16.000	1.09	413	14.600	.25	045	14.500	-.57	307	257.00	-.61
--	Method 021.01	--	646	16.325	1.06	011	14.315	.16	567	14.500	-.57	629	253.00	-.81
619	2.3500 S	2.79	178	15.000	.74	Avg	14.247		186	14.000	-.63	646	252.78	-.87
689	1.6000	.89	354	15.820	.71	553	14.150	-.08	357	14.000	-.63	670	249.50	-1.00
164	1.3500	.28	619	15.500	.53	164	14.000	-.18	366	14.000	-.63	716	243.00	-1.35
Avg	1.2496		722	15.241	.30	187	13.820	-.32	154	13.850	-.89	014	242.00	-1.41
722	0.7987	-1.28	588	15.000	.08	208	13.650	-.43	616	13.500	-1.20	305	237.26	-1.63
--	Method 021.02	--	Avg	14.895		548	13.450	-.57	693	13.500	-1.20	710	236.50	-1.67
510	1.9450	2.00	350	14.700	-.16	074	13.500	-.64	096	13.500	-1.33	337	160.90 s	-5.62
021	1.7500	1.40	208	14.500	-.30	610	13.350	-.67	345	13.150	-1.60	--	Method 025.03	--
038	1.5000 R	.87	731	14.400	-.36	405	13.000	-.89	--	Method 022.99	--	003	279.50 R	2.35
154	1.5500	.77	098	14.550	-.41	510	13.000	-.89	607	16.248	1.06	265	290.00	1.89
011	1.4660	.49	720	14.125	-.57	229	13.000	-.89	692	16.200	.76	553	286.00	1.66
029	1.4200	.35	653	14.042	-.63	148	12.800	-1.04	536	15.500	.27	029	278.50	1.15
Avg	1.3084		505	14.000	-.65	358	12.490	-1.27	Avg	15.126		083	279.50	1.13
366	1.2500	-.24	175	14.000	-.65	171	12.500	-1.30	121	14.880	-.26	520	279.00	1.08
106	1.1950	-.36	591	13.740	-.84	026	12.350	-1.37	846	12.800	-1.63	074	274.00	1.03
171	1.1000	-.65	716	13.850	-.90	003	0.0000 s	-10.20	--	Method 025.01	--	148	274.00	.78
572	1.0700	-.76	307	14.450 R	-.90	--	Method 022.05	--	--	Method 025.01	--	004	272.00	.66
169	1.0150	-.92	590	13.800	-.93	017	20.500 s	6.99	350	344.00 S	3.95	550	269.86	.51
560	1.0750 R	-.96	305	13.455	-1.05	294	16.610	2.35	722	300.31	1.67	510	269.00	.46
668	0.9900	-1.12	710	13.500	-1.08	309	15.380 R	1.84	675	293.98 R	1.46	208	269.00	.46
			504	13.500	-1.08	042	16.050	1.73	175	295.00	1.41	413	267.50	.42
			035	9.0000 s	-4.31	035	16.000	1.65	098	291.20 R	1.33	164	265.00	.37
						668	15.795	1.42	505	292.50	1.27	011	262.67	.37

* 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 025.03	--	--	Method 025.05	--	--	Method 027.01	--	--	Method 027.03	--	--	Method 028.01	--
100	265.50	.29	560	240.50	-1.06	014	0.2050	-.68	598	0.2000	-1.32	720	145.52	2.17
Avg	261.61		668	232.82	-1.34	505	0.2050 R	-.87	294	0.2000	-1.32	505	138.50	1.23
598	259.50	-.16	110	217.50	-1.95	175	0.2000	-1.22	242	0.2000	-1.32	013	139.00	1.22
229	259.00	-.17	345	213.81	-2.09	619	0.2000	-1.22	358	0.1950 R	-2.21	354	138.00	1.08
242	256.50	-.32	616	15.350 s	-10.04	142	0.1950 R	-1.85	--	Method 027.05	--	038	138.00	1.07
187	253.33	-.51	--	Method 025.99	--	710	0.1950 R	-1.85	042	0.2325	2.57	208	137.50	.95
610	251.75	-.65	692	285.00	1.15	169	0.1900	-2.31	693	0.2210	1.27	504	135.50	.65
026	258.00	-.66	121	272.43	.52	588	0.1705 s	-4.43	035	0.2200	1.15	098	131.68	.47
168	249.50	-.76	Avg	262.08		536	0.0840 s	-13.86	309	0.2127 R	.87	731	133.80	.44
144	247.00	-.91	607	252.75	-.50	--	Method 027.03	--	357	0.2150	.82	178	133.00	.27
226	243.50	-1.13	358	238.16	-1.29	548	0.5716 s	54.66	160	0.2168	.80	563	132.98	.26
171	241.50	-1.26	--	Method 026.00	--	003	0.2450 s	5.51	037	0.2150	.59	590	131.49	.21
548	239.02	-1.40	--	Method 026.89	.89	004	0.2250 R	2.44	726	0.2142	.53	669	131.47	.12
405	235.00	-1.66	716	0.1200	.89	164	0.2200 R	2.26	560	0.2115	.34	Avg	131.24	
407	230.00	-1.96	Avg	0.1083		413	0.2200	1.69	572	0.2115	.34	674	131.00	-.16
--	Method 025.05	--	154	0.0965	-.84	265	0.2150 R	1.20	345	0.2120	.27	689	130.00	-.19
353	304.75	1.55	--	Method 026.99	--	171	0.2165	1.16	199	0.2107	.10	629	130.00	-.24
186	301.00	1.40	619	0.0000	.00	550	0.2165	1.16	567	0.2100	.02	722	130.60	-.29
572	295.00	1.18	--	Method 027.01	--	011	0.2155	1.08	017	0.2100	.02	307	129.00	-.34
160	283.50 R	1.11	--	Method 027.01	--	208	0.2135	.71	Avg	0.2098		350	128.65	-.40
017	290.50	.99	563	0.2543 s	4.69	185	0.2125	.57	186	0.2085	-.16	014	128.00	-.52
042	289.50	.95	305	0.2300	2.05	405	0.2100	.18	038	0.2075	-.26	035	127.50	-.68
045	282.50	.80	720	0.2300	2.05	100	0.2100	.18	021	0.2089	-.37	588	126.00	-.80
038	284.50	.74	731	0.2155	.47	510	0.2100	.18	154	0.2051	-.56	646	126.45	-.82
366	281.50	.63	139	0.2150	.43	520	0.2100	.18	096	0.2050	-.78	675	125.34	-.90
021	279.20	.54	038	0.2135	.37	226	0.2100	.18	668	0.2000	-1.11	175	131.00 R	-1.67
096	270.00	.43	650	0.2130	.36	083	0.2100	.18	366	0.2000	-1.11	710	119.50	-1.79
294	271.22	.29	263	0.2140	.35	148	0.2095	.13	616	0.1995	-1.16	305	113.82	-2.65
106	269.00	.23	504	0.2135	.30	Avg	0.2088		045	0.2000 R	-1.58	619	112.00 s	-2.96
037	271.35	.21	208	0.2135	.26	610	0.2080	-.19	106	0.1955	-1.62	716	105.50 s	-3.92
Avg	266.07		350	0.2128	.18	407	0.2050	-.57	353	0.1950	-1.76	--	Method 028.03	--
199	264.15	-.08	Avg	0.2112		026	0.2054	-.59	110	0.1795 s	-3.43	550	156.23	2.22
567	266.00	-.08	035	0.2100	-.13	029	0.2040	-.74	--	Method 027.99	--	003	152.50	1.91
309	263.60	-.28	098	0.2100	-.13	553	0.2035	-.80	--	Method 027.99	--	510	143.50	1.12
693	263.50	-.43	307	0.2100	-.13	229	0.2050 R	-.95	607	0.2092	1.28	553	143.00	1.08
169	248.00	-.72	646	0.2100	-.13	187	0.2025	-.95	121	0.2050	.26	265	139.50	.80
154	244.00	-.89	722	0.2068	-.52	144	0.2025	-.97	Avg	0.2031		164	137.00	.56
726	241.87	-.97	--	Method 026.88	-.52	051	0.2000	-1.32	692	0.1950	-.89	520	135.50	.42

* 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 028.03	--	--	Method 028.05	--	--	Method 031.01	--	--	Method 031.01	--	--	Method 031.05	--
242	135.00	.38	037	138.80	.18	679	0.6300	1.09	650	0.5850	-1.01	616	0.6395	1.34
074	134.50	.36	366	137.50	.14	646	0.6250	.91	039	0.5754	-1.20	567	0.6400	1.34
185	133.00	.33	Avg	137.13		175	0.6250	.91	689	0.5700	-1.42	520	0.6350	1.16
083	133.50	.28	567	134.50	-.27	710	0.6250	.91	687	0.5700	-1.48	572	0.6240 R	1.03
004	132.50	.27	038	134.50	-.33	731	0.6250	.91	596	0.5650	-1.65	512	0.6307	.99
208	133.50	.25	560	135.00	-.33	607	0.6244	.86	633	0.5591	-1.88	560	0.6265	.83
148	131.00	.18	106	132.50	-.44	621	0.6200	.79	108	0.5950 R	-1.92	038	0.6250	.77
229	131.00	.09	154	132.00	-.47	674	0.6150	.78	669	0.5345	-2.91	074	0.6150	.69
187	131.37	.06	096	135.00	-.49	139	0.6160	.55	016	0.3040 s	-12.64	164	0.6150	.69
Avg	130.65		345	131.58	-.55	656	0.6150	.51	--	Method 031.02	--	294	0.6200	.57
100	130.50	-.05	616	126.00	-1.01	354	0.6150	.51	--	Method 031.03	--	028	0.6200	.57
171	130.00	-.10	668	124.51	-1.16	675	0.6100	.49	011	1.1855 S	41.20	096	0.6200	.57
598	129.00	-.17	169	123.00	-1.28	350	0.6128	.44	043	0.6200	1.20	353	0.6150	.43
413	130.50	-.22	693	122.50	-1.34	036	0.6125	.36	Avg	0.6065		226	0.6150	.43
029	127.50	-.35	110	107.50	-2.68	722	0.6103	.27	014	0.5995	-.59	171	0.6150	.43
026	127.50 R	-.55	--	Method 028.99	--	233	0.6050	.21	505	0.6000	-.85	298	0.6100	.43
011	123.48	-.75	536	145.30	1.37	194	0.6050	.21	013	0.3600 S	-17.60	029	0.6140	.35
610	121.20	-.83	121	139.68	.84	619	0.6080	.21	--	Method 031.03	--	693	0.6110	.28
548	121.31	-.84	607	136.79	.55	018	0.6055	.07	--	Method 031.03	--	144	0.6085	.25
144	114.00	-1.46	Avg	130.97		591	0.6040	.04	208	0.6375	1.70	027	0.6110	.23
405	113.00	-1.53	358	122.07	-.86	Avg	0.6040		033	0.6215	1.03	510	0.6100	.19
407	108.50	-1.92	846	122.00	-.86	263	0.6026	-.08	504	0.6117	.65	265	0.6100	.19
226	106.50	-2.10	692	120.00	-1.08	019	0.6000	-.17	026	0.6050	.43	190	0.6100	.19
--	Method 028.05	--	721	1.3000 S	-12.26	511	0.6000	-.17	Avg	0.5954		357	0.6100	.19
353	159.35	2.01	--	Method 031.00	--	305	0.6000	-.17	043	0.5950	-.20	413	0.6100	.19
160	156.05	1.71	622	0.6331	.71	651	0.5985	-.23	036	0.5825	-.51	185	0.6080	.14
017	149.00	1.10	--	Method 031.01	--	001	0.6032	-.32	307	0.5750	-.83	148	0.6075	.10
309	149.00	1.10	622	0.6331	.71	716	0.5950	-.43	048	0.5700	-1.00	Avg	0.6050	
035	138.00 R	.82	--	Method 031.01	--	026	0.5950	-.43	720	0.5600	-1.40	726	0.6039	-.05
294	145.25	.81	122	1.1200 s	21.62	178	0.6000	-.45	047	0.5650 R	-1.55	121	0.6005	-.18
572	145.50	.76	626	0.6400 R	2.58	065	0.5920	-.52	--	Method 031.05	--	017	0.6000	-.19
042	143.50	.70	620	0.6570	2.22	169	0.5900	-.59	208	0.6755	2.70	037	0.5975	-.29
045	138.50	.69	653	0.6525	2.04	038	0.5895	-.61	208	0.6651	2.33	021	0.6048	-.35
027	140.67	.53	142	0.6350	1.44	588	0.5885	-.65	160	0.6651	2.33	668	0.5950	-.43
357	141.50	.42	563	0.6368	1.37	205	0.5940	-.69	003	0.6550 R	2.14	366	0.5950	-.43
726	140.85	.34	629	0.6300	1.17	098	0.5900	-.72	598	0.6550	1.92	100	0.5900	-.57
186	139.50	.22	665	0.6150 R	1.15	152	0.5900	-.72	042	0.6465	1.59	083	0.5900	-.57
021	138.90	.19	363	0.6300	1.09	723	0.5850	-.82	610	0.6460	1.57	199	0.5887	-.62
						035	0.5800	-1.00	168	0.6340 R	1.42	089	0.5850	-.79

* 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 031.05	--	--	Method 032.01	--	--	Method 032.05	--	--	Method 032.05	--	--	Method 033.01	--
229	0.5850	-0.79	591	1.3250 s	9.86	616	1.1300	1.17	553	1.0435 R	-0.85	160	1.1305	-1.44
045	0.6000 R	-0.79	208	1.1975 s	5.41	572	1.1300	1.13	096	1.0500 R	-0.87	504	1.1200	-1.64
004	0.5845	-0.79	619	1.0800 R	1.91	345	1.1300	1.13	358	1.0150	-0.92	679	0.8750 s	-4.98
553	0.5825	-0.86	354	1.0800	1.48	726	1.1266	1.07	003	1.0050	-0.99	--	Method 033.01	--
051	0.5800	-0.95	720	1.0800	1.31	226	1.1250	1.04	242	1.0000	-1.07	710	1.3900 s	5.59
407	0.5800	-0.95	307	1.0700	.96	038	1.1150	.87	520	1.0000	-1.07	610	1.3060	2.06
682	0.5800	-0.95	650	1.0650	.81	045	1.0900	.81	004	0.9990	-1.10	510	1.2900	1.39
187	0.5783	-1.02	205	1.0650	.81	083	1.1100	.79	567	1.0550 R	-1.10	185	1.2900	1.39
154	0.5818 R	-1.07	139	1.0615	.67	407	1.1100	.79	208	0.9925	-1.27	337	1.2900	1.39
345	0.5770	-1.07	563	1.0565	.50	042	1.1050	.71	645	0.9896	-1.29	354	1.2750 R	1.30
550	0.5765	-1.09	035	1.0450	.20	021	1.1030	.67	029	0.9835	-1.36	226	1.2850	1.20
035	0.5750	-1.16	Avg	1.0425		610	1.0955	.58	187	0.9742	-1.50	590	1.2850	1.20
548	0.5737	-1.20	038	1.0400	-.36	037	1.0955	.54	550	0.9255	-2.32	026	1.2750	.79
358	0.5750	-1.28	350	1.0312	-.42	413	1.0950	.54	106	0.9225	-2.37	175	1.2750	.79
405	0.5700	-1.34	710	1.0300	-.56	017	1.0950	.54	110	0.8571 s	-4.40	307	1.2600	.44
242	0.5700	-1.34	505	1.0250	-.80	199	1.0910	.47	--	Method 032.99	--	205	1.2650	.41
309	0.5792 R	-1.38	175	1.0200	-1.05	171	1.0900	.45	607	1.1510	.91	629	1.2650	.41
645	0.5551	-1.91	305	1.0100	-1.18	148	1.0750	.21	Avg	1.0855		413	1.2650	.41
106	0.5550	-1.91	098	1.0000	-1.48	144	1.0750	.21	692	1.0200	-0.81	039	1.2615	.23
110	0.5079 s	-3.79	670	1.0000	-1.64	366	1.0700	.20	--	Method 033.00	--	Avg	1.2567	
--	Method 031.06	--	675	0.9100 s	-4.63	185	1.0640	.17	--	Method 033.00	--	096	1.2550	-0.22
536	0.6400	.95	142	0.8950 s	-5.17	011	1.0660	.16	169	1.4000	2.34	178	1.2550	-0.22
Avg	0.6125		--	Method 032.02	--	357	1.0700	.11	366	1.3350	1.40	098	1.2550	-0.22
138	0.5850	-.78	716	1.1550	1.52	Avg	1.0633		298	1.3000	.92	199	1.2500	-0.28
686	0.5400 S	-2.18	590	1.0900	1.04	100	1.0600	-.03	539	1.3000	.92	011	1.2483	-.37
--	Method 031.99	--	169	1.1050	.47	154	1.0521	-.19	675	1.2950	.85	100	1.2500	-0.50
729	0.7450 S	5.49	731	1.0950	.28	229	1.0500	-.28	353	1.2400	.56	559	1.2450	-0.53
631	0.7250 S	4.88	Avg	1.0826		510	1.0500	-.28	689	1.2450	.17	194	1.2450	-0.53
590	0.6100	.70	504	1.0625	-.43	668	1.0550	-.29	731	1.2450	.17	021	1.2400	-0.70
673	0.6050	.55	588	1.0605	-.47	405	1.0450	-.32	Avg	1.2341		164	1.2350	-.93
724	0.6000	.35	536	1.0100	-1.55	026	1.0505	-.37	045	1.2250	-.14	650	1.2300	-1.19
552	0.6000	.35	108	1.0650 R	-1.79	265	1.0450	-.40	567	1.2250	-.37	242	1.2300	-1.19
034	0.5950	.25	--	Method 032.05	--	164	1.0400	-.43	407	1.2050	-.41	029	1.2300	-1.19
Avg	0.5900		294	1.2250	2.72	693	1.0460	-.47	596	1.2000	-.47	004	1.2230	-1.44
588	0.5680 R	-1.54	309	1.1810	2.05	353	1.0400	-.52	208	1.1950	-.55	229	1.2200	-1.53
692	0.5300	-2.10	051	1.1350 R	2.00	548	1.0336	-.53	511	1.2000	-.63	048	1.2200	-1.53
			560	1.1450	1.40	035	1.0250	-.65	309	1.1790	-.77	106	1.1650 A	-3.84
						186	1.0250	-.77	588	1.1750	-.82	686	1.0600 s	-8.22

* 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 033.03	--	--	Method 034.05	--	--	Method 035.00	--	--	Method 035.03	--	--	Method 035.05	--
144	1.4900	.75	693	1.5500 S	5.52	591	0.1345 s	-5.93	029	0.2355	-0.33	536	0.2305	-1.05
190	1.4750	.67	016	0.6930 R	.67	--	Method 035.01	--	160	0.2357	-0.35	--	Method 035.99	--
726	1.4650	.62	560	0.7300	.67	686	0.2600	1.01	038	0.2350	-0.37	588	0.4775 S	31.08
Avg	1.3520	--	047	0.7240	.63	563	0.2544	.14	309	0.2368	-0.44	607	0.2404	1.03
505	1.2950	-0.32	Avg	0.6180	--	Avg	0.2536	--	298	0.2350	-0.54	Avg	0.2352	--
122	1.0350	-1.73	154	0.4000	-1.29	138	0.2465	-1.21	100	0.2350	-0.54	692	0.2300	-0.67
674	0.8750 S	-2.62	--	Method 034.99	--	--	Method 035.03	--	693	0.2320	-0.72	--	Method 036.00	--
265	0.7400 S	-3.34	721	0.6300	1.08	004	0.3550 s	9.16	148	0.2305	-0.72	307	0.2100	.00
598	0.2700 S	-5.90	096	0.6500	.64	405	0.3250 s	6.79	185	0.2303	-0.74	--	Method 036.03	--
--	Method 033.05	--	Avg	0.5683	--	510	0.2725	2.61	366	0.2300	-0.76	--	Method 036.03	--
171	1.1950	.71	098	0.4250	-0.96	208	0.2670	2.17	242	0.2300	-0.76	106	0.2560	1.53
--	Method 033.99	--	--	Method 035.00	--	144	0.2580 R	1.88	682	0.2300	-0.76	154	0.2529	1.40
716	1.2650	1.55	263	0.2903	2.52	187	0.2627	1.83	045	0.2395	-0.83	169	0.2500	1.28
051	1.2450 R	1.55	142	0.2700	1.42	413	0.2600	1.62	645	0.2286	-0.90	186	0.2405 R	.98
Avg	1.2050	--	670	0.2650	1.18	017	0.2550	1.28	550	0.2245	-1.21	042	0.2395	.87
673	1.2000	-0.13	722	0.2650	1.14	572	0.2510	.92	035	0.2250	-1.23	560	0.2365	.71
034	1.1800	-0.69	720	0.2600	.87	553	0.2495	.90	567	0.2350 R	-1.25	187	0.2345	.61
552	1.1750	-0.78	656	0.2550	.66	083	0.2500	.82	353	0.2227	-1.35	038	0.2295	.44
723	0.9500 S	-6.56	619	0.2495	.36	096	0.2400	.79	358	0.2150	-1.99	357	0.2300	.42
003	0.7100 S	-12.74	098	0.2500	.33	037	0.2480	.68	616	0.2120	-2.20	021	0.2252	.25
121	0.5960 S	-15.65	354	0.2450	.28	011	0.2455	.59	265	0.2050 s	-2.78	160	0.2223	.09
358	0.5550 S	-16.72	307	0.2450	.28	407	0.2470	.59	110	0.2020 s	-3.00	Avg	0.2202	--
--	Method 034.01	--	337	0.2450	.28	164	0.2450	.58	--	Method 035.05	--	294	0.2200	-0.01
038	0.6450	.60	Avg	0.2439	--	226	0.2450	.58	665	0.2900 S	3.78	345	0.2135	-0.29
Avg	0.6350	--	139	0.2435	-0.03	548	0.2458	.57	108	0.2600 R	2.06	366	0.2150	-0.31
668	0.6250	-1.07	305	0.2400	-0.21	186	0.2410	.57	106	0.2670	1.87	708	0.2125	-0.34
--	Method 034.04	--	233	0.2400	-0.21	021	0.2461	.56	169	0.2600	1.31	045	0.2200 R	-0.43
190	0.8550	2.10	710	0.2350	-0.55	726	0.2444	.42	042	0.2510	.61	693	0.2060	-0.65
572	0.6735	.35	038	0.2335	-0.57	345	0.2400	.16	294	0.2500	.51	353	0.1950	-1.10
610	0.6450	.22	152	0.2335	-0.59	089	0.2400	.03	731	0.2500	.51	110	0.1892	-1.34
Avg	0.6379	--	205	0.2300	-0.75	051	0.2400	.03	Avg	0.2436	--	616	0.1865	-1.45
208	0.5915	-0.45	675	0.2300	-0.75	598	0.2400	.03	171	0.2410	-0.22	265	0.1700	-2.15
164	0.6000	-0.47	208	0.2300	-0.78	668	0.2400	.03	716	0.2330	-0.84	550	0.1105 s	-4.71
169	0.5550	-0.82	650	0.2285	-0.88	229	0.2400	.03	588	0.2330	-0.84	--	--	--
026	0.5450	-0.90	035	0.2200	-1.29	Avg	0.2396	--	504	0.2326	-0.88	--	--	--
--	--	--	175	0.2250 R	-1.31	154	0.2381	-0.14	560	0.2310	-1.01	--	--	--
--	--	--	363	0.2050	-2.12	199	0.2356	-0.32	--	--	--	--	--	--

* 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 036.04	--	--	Method 037.03	--	--	Method 037.05	--	--	Method 038.00	--	--	Method 054.01	--
226	0.2300	.87	003	203.00 s	4.88	616	192.50 R	1.21	038	2.6000	.14	028	7.1600	2.54
Avg	0.2200		208	191.00	1.74	106	200.00	1.17	560	2.5800	.08	027	6.4150 R	.91
510	0.2100	-.87	520	185.50	1.22	027	195.49	.97	Avg	2.5550		003	6.4000	.75
--	Method 037.01	--	413	184.00	1.08	567	192.92	.75	029	2.5500	-.16	016	6.3950	.70
675	222.29 s	4.99	011	183.62	1.01	160	188.30	.52	011	2.4305	-.42	014	6.2000	.34
175	192.00 R	1.88	510	183.00	.96	186	188.00	.46	169	2.3000	-.79	047	6.2300	.31
720	186.39	1.26	226	180.50	.82	353	187.80	.44	668	2.2250	-1.03	Avg	6.1021	
563	185.43	1.17	265	181.50	.80	357	184.50	.32	096	2.5000 R	-1.56	010	5.9900	-.27
722	184.86	1.11	148	181.00	.75	572	184.00	.32	021	2.0000	-1.75	218	5.9355	-.41
504	183.00	.94	004	178.50	.55	021	181.30	.11	106	1.4000 S	-3.60	036	5.9000	-.48
013	183.00	.92	100	179.00	.55	560	181.00	.07	--	Method 038.99	--	013	5.9000	-.68
590	182.94	.91	553	177.00	.45	Avg	180.26		--	Method 039.01	--	029	5.8100	-.70
674	182.50	.87	598	176.00	.38	294	179.35	-.05	164	2.6500	.96	038	5.6750	-1.02
653	182.17	.84	083	177.00	.35	726	178.83	-.10	Avg	2.5975		001	5.6300	-1.14
098	181.40	.76	550	175.01	.32	037	174.15	-.37	721	2.5450	-.77	--	Method 104.00	--
038	180.00	.62	229	174.00	.20	199	173.45	-.40	--	Method 039.01	--	171	2.5850	.71
731	179.25	.53	074	175.00	.17	096	175.00	-.43	--	Method 039.02	--	--	Method 106.00	--
689	178.50	.48	185	175.00	.17	366	172.50	-.46	591	3.3250	.86	--	Method 105.00	--
619	176.00	.37	187	174.51	.09	045	179.00	-.48	Avg	2.8625		160	2.4650	.71
646	176.05	.33	Avg	173.60		345	163.06	-1.01	--	Method 039.02	--	--	Method 106.02	--
716	177.00	.32	029	173.00	-.12	154	163.50	-1.02	--	Method 039.02	--	--	Method 106.00	--
014	176.50	.30	171	171.00	-.28	169	161.50	-1.10	154	3.6000	1.23	171	6.4000	-.71
350	176.00	.21	610	167.45	-.62	693	161.50	-1.15	021	3.1500	.40	--	Method 106.02	--
354	174.10	.18	168	166.50	-1.11	110	149.50	-1.81	560	3.0000	.12	169	5.3500	1.81
Avg	174.02		548	170.24 R	-1.13	668	145.78	-2.03	Avg	2.9351		675	5.2250	1.68
208	173.00	-.10	144	162.50	-1.14	--	Method 037.99	--	011	2.9105	-.05	096	4.7850 R	1.63
178	174.00	-.20	026	162.00	-1.16	721	228.00 S	5.78	668	2.0150	-1.68	021	4.2500	.80
307	164.50	-.98	358	162.18	-1.22	121	182.91	1.19	--	Method 040.00	--	003	3.8615 R	.77
305	163.77	-1.05	242	159.50	-1.41	846	172.70	.19	560	6.5550	.71	160	3.7750	.52
505	162.50	-1.18	164	158.50 R	-1.96	Avg	171.35		--	Method 041.00	--	563	3.6067	.21
591	160.43	-1.39	407	153.00	-2.06	607	171.29	-.06	--	Method 041.00	--	Avg	3.3722	
669	159.87	-1.45	511	152.50	-2.16	692	158.50	-1.43	011	1.1870	.87	560	3.1250	-.23
710	158.50	-1.59	405	129.00 s	-4.46	--	Method 038.00	--	Avg	1.0735		199	3.0000	-.34
588	156.00	-1.85	--	Method 037.05	--	--	Method 038.00	--	154	0.9600	-.86	004	2.9900	-.40
035	155.00	-1.95	047	131.25 s	761.69	154	3.2000	2.03	510	2.8500	.93	610	2.5750	-.72
			309	211.45	1.88	510	2.8500	.93	693	2.7000	.55	616	2.3900	-.89
			017	210.00	1.77	693	2.7000	.55	121	2.6700	.49	619	2.3600	-.92
			038	205.00	1.46	121	2.6700	.49						

* 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 106.02	--	--	Method 121.00	--	--	Method 125.00	--	--	Method 128.00	--	--	Method 130.05	--
016	1.8200	-1.41	619	1.3550	1.10	350	3.7355	.19	504	0.9050	1.91	626	1.0350	-.71
--	Method 108.02	--	Avg	1.3357		Avg	3.7156		160	0.8371	.70	--	Method 131.00	--
560	38.000	.87	571	1.3345	-.07	160	3.6605	-.51	350	0.8450	.45	684	0.3185	1.60
Avg	19.483		652	1.3300	-.31	652	3.6550	-.54	571	0.8300	.25	675	0.3050	.78
208	0.9650	-.87	675	1.3250	-.65	571	3.6540	-.56	652	0.8300	.25	504	0.3050	.78
--	Method 109.02	--	350	1.3130	-1.27	675	3.5600	-1.29	Avg	0.8263		652	0.2950	.33
563	92.445	1.10	--	Method 121.05	--	--	Method 125.05	--	684	0.8050	-.56	571	0.2965	.20
610	89.750	.89	626	1.3500	.71	626	3.5550	.71	619	0.7735	-1.34	Avg	0.2938	
567	83.780	.46	--	Method 122.00	--	--	Method 126.00	--	--	Method 128.05	--	350	0.2800	-.87
199	83.500	.42	504	2.1250	1.37	684	0.9255	1.38	626	0.8550	.71	160	0.2756	-1.16
619	80.000	.15	619	2.1500	1.37	504	0.9150	1.28	--	Method 129.00	--	619	0.2745	-1.22
208	79.765	.12	684	2.0985	.54	652	0.8950	.58	--	Method 129.00	--	--	Method 131.05	--
Avg	78.339		652	2.0900	.22	350	0.9045	.49	504	1.6900 s	2.94	626	0.2600	-.71
675	63.875	-1.13	571	2.0854	-.70	619	0.8940	.11	684	1.6585	1.89	--	Method 132.00	--
560	53.600	-1.94	571	2.0560	-.87	Avg	0.8918		619	1.5950	.21	--	Method 132.00	--
--	Method 109.99	--	675	2.0450	-.87	571	0.8805	-.46	571	1.5930	.16	160	1.1033	2.02
096	91.500	.71	350	2.0330	-1.08	675	0.8700	-.82	Avg	1.5884		619	1.0200	.63
--	Method 120.00	--	160	1.8392 s	-4.98	160	0.8499	-1.58	160	1.5863	-.27	504	0.9950 R	.62
160	1.1029	2.09	--	Method 122.05	--	--	Method 126.05	--	350	1.5760	-.35	Avg	0.9822	
504	1.0150 R	.77	626	1.9350	-.71	626	0.8850	.71	652	1.5800	-.56	652	0.9800	-.04
684	1.0250	.49	--	Method 124.00	--	--	Method 127.00	--	675	1.5300	-1.54	571	0.9550	-.49
Avg	1.0031		160	0.4299	1.93	160	0.6564 s	9.28	--	Method 129.05	--	684	0.9575	-.50
619	0.9980	-.14	684	0.3870	.88	652	0.5500	1.73	626	1.5750	-.71	350	0.9345	-.79
350	0.9880	-.43	Avg	0.3513		504	0.5350	1.25	--	Method 130.00	--	675	0.9250	-.95
571	0.9830	-.45	504	0.3400	-.37	Avg	0.5255		--	Method 130.00	--	--	Method 132.05	--
675	0.9700	-.69	571	0.3370	-.38	675	0.5250	-.35	160	1.1533	1.98	626	0.9700	.00
652	0.9550	-1.01	652	0.3450 R	-.40	571	0.5210	-.47	504	1.1150 R	1.30	--	Method 133.00	--
--	Method 120.05	--	675	0.3300	-.52	619	0.5175	-.61	350	1.1080	.65	--	Method 133.00	--
626	0.9400	.00	350	0.3255	-.63	684	0.5170	-.66	Avg	1.0854		684	1.2550	1.52
--	Method 121.00	--	619	0.3095	-1.03	350	0.5130	-.89	038	1.0850	-.11	619	1.2100	.47
160	1.4485 s	6.31	--	Method 125.00	--	--	Method 127.05	--	675	1.0800	-.15	652	1.1950	.13
504	1.3650 R	2.52	684	3.9345	1.82	626	0.5250	.71	619	1.0800	-.15	Avg	1.1939	
684	1.3565	1.47	504	3.8350 R	1.55	571	1.0770	-.24	571	1.0770	-.24	160	1.1938	-.08
--	Method 121.00	--	619	3.8100	.80	626	0.5250	.71	684	1.0745	-.32	571	1.1885	-.62
--	Method 120.05	--	--	Method 125.00	--	--	Method 127.05	--	652	1.0250	-1.72	504	1.1900	-.74
626	0.9400	.00	619	3.8100	.80	626	0.5250	.71	675	1.0800	-.15	675	1.1250	-1.74

* 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
--	Method 133.05	--	--	Method 136.01	--						
626	1.1850	-.71	571	0.2560	-1.20						
--	Method 134.00	--	--	Method 136.99	--						
619	1.0450	1.30	504	0.2400	.00						
160	1.0385	1.19									
684	0.9960	.62	--	Method 137.00	--						
571	0.9715	.21	160	0.7998	1.44						
Avg	0.9606		684	0.7170	.52						
675	0.9250	-.55	Avg	0.6703							
652	0.9350	-.79	504	0.6500	-.32						
350	0.8990	-.94	675	0.6400	-.35						
504	0.8750	-1.47	350	0.5445	-1.39						
--	Method 134.05	--	--	Method 137.05	--						
626	0.9700	.00	626	0.5350	.71						
--	Method 135.00	--	--	Method 138.00	--						
684	0.7980	1.90	350	1.0505	1.57						
504	0.7700	.63	504	1.0300	1.32						
619	0.7755	.50	571	0.9635	.41						
675	0.7750	.49	Avg	0.9349							
160	0.7716	.19	684	0.9300	-.24						
Avg	0.7689		675	0.8950	-.55						
571	0.7560	-.87	160	0.8850	-.68						
652	0.7550	-.93	619	0.8800	-.76						
350	0.7505	-1.16	652	0.8450	-1.31						
--	Method 135.05	--	--	Method 138.05	--						
626	0.7350	.71	626	0.9600	.71						
--	Method 136.00	--	--	Method 139.00	--						
684	0.2415	.86	504	0.0350	-.71						
Avg	0.2283										
038	0.2150	-.87	--	Method 300.01	--						
--	Method 136.01	--	651	0.1500	-.71						
619	0.2780	.99									
160	0.2709	.28									
Avg	0.2683										

* 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	12	0.0000	1.02	0.10	009.07	11	0.1214	1.05	0.14
001.03	5	0.0000	1.03	0.23	009.09	16	0.0574	0.99	0.30
001.07	37	-0.0934	1.55	0.98	009.99	4	5.0110	10.05	0.52
001.08	2	0.0000	0.95	0.55	010.03	3	0.0000	0.00	0.00
001.99	13	0.0165	0.97	0.14	010.11	9	0.0000	1.01	0.17
002.00	5	0.0000	1.03	0.23	010.99	11	0.4875	1.87	0.70
002.01	11	-0.3231	1.39	0.44	011.01	82	0.0339	0.98	0.27
002.02	10	0.0000	1.01	0.17	011.99	3	0.0000	1.11	0.10
002.04	3	2.1828	3.87	0.21	012.00	8	-0.6897	2.15	0.32
002.05	19	-0.0857	1.03	0.24	012.01	3	0.0000	1.05	0.31
002.06	133	0.0329	1.37	0.37	012.03	2	0.0000	1.22	0.06
002.08	5	0.0000	1.02	0.26	012.04	4	0.0000	1.08	0.02
002.10	8	0.0000	1.00	0.25	012.11	3	0.0000	1.11	0.10
002.11	11	0.0000	1.02	0.11	013.02	32	0.0320	0.99	0.23
002.99	7	0.0000	0.77	0.64	013.10	19	0.0108	0.97	0.29
003.00	29	0.0228	0.95	0.38	013.12	2	0.0000	1.01	0.49
003.06	24	0.4080	2.12	0.87	015.00	12	0.0591	1.00	0.10
003.09	26	-0.0034	1.68	0.38	017.00	8	0.0000	1.03	0.07
003.10	28	-0.4003	2.01	0.50	018.02	2	0.0000	0.82	0.64
003.11	11	-0.1523	1.10	0.12	019.00	12	0.3022	1.33	0.20
003.12	3	0.0000	1.10	0.18	019.01	50	0.0357	1.44	0.49
003.13	5	0.0000	1.00	0.31	019.03	7	0.0000	1.04	0.10
003.14	13	-0.0636	0.97	0.62	019.05	37	-0.0726	1.26	0.35
003.99	8	0.7741	3.07	0.30	019.08	7	0.0000	0.84	0.57
004.00	30	-0.1281	1.11	0.19	019.09	29	-0.0576	1.41	0.35
004.01	2	0.5167	0.73	1.38	019.99	8	-1.2587	2.87	0.83
004.03	3	0.0000	0.86	0.58	020.00	2	0.0000	1.07	0.43
004.06	30	-0.2032	1.28	0.36	020.01	7	-0.0687	0.97	0.16
004.07	39	0.0822	1.02	0.27	021.01	4	0.6973	1.63	0.30
004.11	11	0.0000	1.02	0.12	021.02	15	-0.2827	1.41	0.28
004.99	4	0.0000	1.08	0.01	021.99	4	0.2563	1.04	1.15
005.00	130	-0.0738	1.14	0.36	022.01	27	0.0478	1.70	0.35
005.02	2	0.0000	0.99	0.51	022.03	30	-0.2289	2.14	0.47
005.11	9	0.5748	1.25	0.39	022.05	28	0.2818	1.58	0.57
005.99	11	0.1521	1.09	0.29	022.99	5	0.0000	0.98	0.35
008.02	14	-0.6185	1.78	0.84	025.01	27	0.0318	1.67	0.21
008.08	20	0.0349	0.98	0.25	025.03	29	0.0382	0.97	0.49
008.99	4	0.0000	1.01	0.32	025.05	26	-0.3592	2.19	0.26
009.04	2	1.4623	2.07	1.01	025.99	4	0.0000	1.03	0.28

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
026.00	2	0.0000	1.16	0.28	038.99	2	0.0000	0.98	0.52
027.01	25	-0.7120	3.20	0.22	039.01	2	0.0000	1.20	0.16
027.03	31	1.9385	9.89	0.40	039.02	5	0.0000	1.05	0.10
027.05	26	-0.1618	1.16	0.36	041.00	2	0.0000	1.22	0.06
027.99	3	0.0000	0.68	0.72	054.01	13	0.0576	0.98	0.23
028.01	29	-0.2372	1.29	0.39	106.02	14	0.1231	1.00	0.35
028.03	29	-0.0094	0.98	0.18	108.02	2	0.0000	1.22	0.01
028.05	28	0.0028	0.96	0.29	109.02	8	0.0000	1.03	0.10
028.99	7	-1.7510	4.73	0.16	120.00	8	0.0310	0.96	0.30
031.01	56	0.1902	3.50	0.51	121.00	8	0.9803	2.33	0.85
031.02	5	4.7319	21.76	0.79	122.00	8	-0.6222	1.94	0.49
031.03	10	-0.1198	1.03	0.35	124.00	8	-0.0192	0.96	0.17
031.05	65	-0.0311	1.09	0.32	125.00	8	0.1232	1.01	0.46
031.06	3	-0.6724	1.39	0.58	126.00	8	0.0000	0.92	0.44
031.99	9	1.0410	2.45	0.67	127.00	8	1.1522	3.37	0.58
032.01	21	0.3243	3.06	0.47	128.00	8	0.0000	0.94	0.40
032.02	8	-0.0452	0.87	0.74	129.00	8	0.3293	1.30	0.55
032.05	57	-0.0520	1.06	0.51	130.00	9	0.0934	0.99	0.37
032.99	2	0.0000	1.14	0.32	131.00	8	0.0000	1.00	0.24
033.00	19	-0.2622	1.49	0.23	132.00	8	0.0266	0.96	0.24
033.01	33	-0.1731	2.09	0.29	133.00	7	0.0000	0.94	0.41
033.03	8	-1.4806	2.38	0.11	134.00	8	0.0000	0.95	0.37
033.99	9	-5.6221	7.49	0.53	135.00	8	0.0000	0.96	0.37
034.01	2	0.0000	0.84	0.63	136.00	2	0.0000	1.09	0.39
034.04	7	0.0000	1.03	0.15	136.01	3	0.0000	1.10	0.18
034.05	5	1.1912	2.55	0.26	137.00	5	0.0000	1.05	0.12
034.99	3	0.0000	0.83	0.61	138.00	8	0.0000	1.01	0.22
035.00	25	-0.2780	1.53	0.24					
035.01	3	0.0000	1.08	0.23					
035.03	53	0.2061	1.90	0.40					
035.05	13	0.3854	1.41	0.50					
035.99	3	10.3530	17.94	0.77					
036.03	22	-0.1748	1.39	0.18					
036.04	2	0.0000	1.22	0.00					
037.01	30	0.2258	1.36	0.20					
037.03	32	-0.1051	1.34	0.79					
037.05	28	27.2290	143.94	0.39					
037.99	5	1.1563	2.73	0.28					
038.00	13	-0.2891	1.35	0.48					