

Feed Check Sample No. - 200823 Pig Grower, Medicated
 Association of American Feed Control Officials

- Pass 1 Results for 205 Labs - - Pass 2 Results for 205 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	0.42000	0.05657	0.08000	1	0.42000	0.05657	0.08000
Loss on Drying, Vac 95 deg 5 hr	934.01	001.00	12	10.1975	0.47676	0.09167	11	10.2491	0.45921	0.06000
Loss on Drying, ISO 6496		001.03	4	10.2100	0.22928	0.13000	4	10.2100	0.22928	0.13000
Loss on Drying, LECO		001.05	1	10.2400	0.00000	0.00000	1	10.2400	0.00000	0.00000
Loss on Drying, 104 deg 3 hr, in malt .	935.29	001.07	38	10.2275	0.33147	0.10716	34	10.1991	0.30532	0.07271
Loss on Drying, 102 deg 16 hr, in meat	950.46	001.08	2	10.3418	0.44348	0.32450	2	10.3418	0.44348	0.32450
Loss on Drying, Misc		001.99	14	10.2622	0.58255	0.17126	15	10.3560	0.66583	0.16637
Method Group 001.XX PCT			71	10.2317	0.40996	0.12308	66	10.2265	0.39989	0.10149
Protein, Crude	954.01	002.00	4	15.9775	0.08892	0.06500	4	15.9775	0.08892	0.06500
Protein, Auto Kjel-Foss	976.05	002.01	11	16.0119	0.15890	0.08531	11	16.0119	0.15890	0.08531
Protein, Semiauto Autoanalyzer	976.06	002.02	9	15.9620	0.34797	0.10867	8	15.9860	0.35620	0.07475
Protein, Hach Method		002.03	1	16.0800	0.28284	0.40000	1	16.0800	0.28284	0.40000
Protein, Copper Cat	984.13	002.04	5	15.9330	0.43369	0.09800	5	15.9330	0.43369	0.09800
Protein, Copper, Boric Acid		002.05	16	16.0303	0.31266	0.02834	14	16.0274	0.32538	0.01810
Protein, Combustion Nitrogen Analyzer	990.03	002.06	128	16.2382	0.34336	0.11249	123	16.2251	0.33841	0.09641
Protein, Cu/Ti	988.05	002.08	4	16.0876	0.26087	0.07925	4	16.0876	0.26087	0.07925
Protein, Block dig/distillation		002.10	6	16.0317	0.18100	0.05000	6	16.0317	0.18100	0.05000
Protein, NIR		002.11	10	16.2105	0.28372	0.08100	9	16.2617	0.24414	0.05667
Protein, Misc		002.99	7	16.1331	0.21178	0.09057	7	16.1331	0.21178	0.09057
Method Group 002.XX PCT			201	16.1691	0.33430	0.09940	192	16.1644	0.32852	0.08625
Fat, Eth Ext, Direct	920.39	003.00	28	4.61147	0.24001	0.08896	26	4.63869	0.19380	0.07003
Fat, Ind Eth Ext (13th ed), Indirect ..	920.39	003.01	1	4.32000	0.01414	0.02000	1	4.32000	0.01414	0.02000
Fat, In Fish Meal	948.04	003.04	1	5.18500	0.03536	0.05000	1	5.18500	0.03536	0.05000
Fat, Pet Ether		003.06	24	4.40994	0.21730	0.13980	23	4.42102	0.18325	0.09936
Fat, Soxtec, Eth Ext		003.09	24	4.50422	0.22574	0.07110	21	4.51448	0.16723	0.04755
Fat, Soxtec, Pet Ether		003.10	27	4.45838	0.17901	0.09275	26	4.46793	0.16775	0.07632
Fat, NIR		003.11	10	4.45200	0.23496	0.02400	9	4.45611	0.24756	0.01667
Fat, Hexane Ext.		003.12	2	4.82000	0.26621	0.03000	2	4.82000	0.26621	0.03000
Fat, Soxtec, Hexane Ext.		003.13	3	4.50500	0.08345	0.04600	3	4.50500	0.08345	0.04600
Fat, Ankom		003.14	10	4.27350	0.49033	0.16500	10	4.27350	0.49033	0.16500
Fat, Misc		003.99	7	4.70786	0.35859	0.07286	7	4.70786	0.35859	0.07286
Method Group 003.XX PCT			137	4.49859	0.27924	0.09288	129	4.50942	0.26424	0.07494
Fiber, Crude Asbestos Free	962.09	004.00	27	3.15648	0.36191	0.14556	26	3.13385	0.34438	0.12846
Fiber, Sing Filt		004.01	2	4.13500	0.14107	0.08000	2	4.13500	0.14107	0.08000
Fiber, Fritted Glass	978.10	004.03	3	3.22000	0.28503	0.15333	3	3.22000	0.28503	0.15333
Fiber, Fibertec		004.06	27	3.36641	0.25961	0.14192	25	3.38693	0.24672	0.10928
Fiber, ANKOM		004.07	36	2.97089	0.25418	0.10689	35	2.97349	0.24953	0.08880
Fiber, NIR		004.11	9	3.69111	0.42668	0.04889	8	3.68688	0.45175	0.02375
Fiber, Misc		004.99	3	3.43167	0.61561	0.05000	3	3.43167	0.61561	0.05000

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Method Group 004.XX PCT			107	3.21977	0.39961	0.11981	102	3.21515	0.39630	0.09941
Ash,	942.05	005.00	131	4.94662	0.13791	0.05282	126	4.94673	0.12748	0.04885
Ash, Sugars & Syrups	900.02	005.01	1	4.56500	0.00707	0.01000	1	4.56500	0.00707	0.01000
Ash, LECO		005.02	1	5.05000	0.00000	0.00000	1	5.05000	0.00000	0.00000
Ash, Microwave Furnace		005.03	1	4.56500	0.04950	0.07000	1	4.56500	0.04950	0.07000
Ash, NIR		005.11	7	5.08000	0.14011	0.05714	8	5.12875	0.18658	0.05500
Ash, Misc		005.99	12	4.99013	0.12919	0.02525	11	5.00786	0.11847	0.01755
Method Group 005.XX PCT			153	4.95182	0.14594	0.05034	147	4.95316	0.13769	0.04645
Sugar, TSI, Lane-Eynon (12th)	923.09	006.05	1	3.51000	0.01414	0.02000	1	3.51000	0.01414	0.02000
Fiber, Acid Detergent	973.18	008.02	14	4.77429	0.49698	0.14286	13	4.78385	0.51031	0.11538
Fiber, Acid Detergent-Hach		008.05	1	5.45000	0.63640	0.90000	1	5.45000	0.63640	0.90000
Fiber, Acid Detergent by ANKOM		008.08	22	4.49511	0.60516	0.23886	22	4.49511	0.60516	0.23886
Fiber, Acid Detergent Misc		008.99	4	4.74625	0.39177	0.17250	3	4.62833	0.33487	0.03000
Method Group 008.XX PCT			41	4.63823	0.57442	0.21573	39	4.62609	0.58090	0.19859
Fiber, Neutral Det-No ENZ Pretreat		009.04	2	16.3150	1.25535	1.79000	2	16.3150	1.25535	1.79000
Fiber, Neutral Det-ENZ Pretreat		009.07	11	13.7588	1.14452	0.36482	10	13.6797	1.14722	0.25130
Fiber, Neutral Detergent by ANKOM		009.09	18	12.9929	1.41109	0.38787	17	12.8425	1.28549	0.31539
Fiber, Neutral Det Misc		009.99	2	13.7475	0.60478	0.25500	2	13.7475	0.60478	0.25500
Method Group 009.XX PCT			33	13.4953	1.49716	0.45711	31	13.3949	1.47084	0.38595
Moisture, Karl-Fischer	966.20	010.03	2	9.09750	0.94348	0.28500	2	9.09750	0.94348	0.28500
Moisture, NIR		010.11	7	10.9071	0.43073	0.04857	7	10.9071	0.43073	0.04857
Moisture, Misc		010.99	14	10.2651	0.44909	0.21571	13	10.2398	0.43546	0.15769
Method Group 010.XX PCT			23	10.3590	0.68874	0.17087	22	10.3483	0.69482	0.13455
Loss on Drying, 135 deg 2 hr	930.15	011.01	82	11.1855	0.41868	0.10373	79	11.1839	0.41800	0.08362
Loss on Drying, High Temp Methods, Misc		011.99	2	10.6800	0.20347	0.04000	2	10.6800	0.20347	0.04000
Method Group 011.XX PCT			84	11.1735	0.42168	0.10222	81	11.1714	0.42108	0.08254
Starch, Polarimetric (Ewers)		012.00	8	41.5163	1.46352	0.39750	8	41.5163	1.46352	0.39750
Starch, Megazyme		012.01	2	39.0300	0.59632	0.46000	2	39.0300	0.59632	0.46000
Starch, Colorimetric (GOP)		012.02	1	38.9250	0.55861	0.79000	1	38.9250	0.55861	0.79000
Starch, Enzymatic		012.03	3	39.2900	2.59233	0.71333	3	39.2900	2.59233	0.71333
Starch, YSI Analyzer		012.04	4	41.0200	2.83634	0.30000	4	41.0200	2.83634	0.30000
Starch, NIR		012.11	4	42.5113	2.03901	0.26750	4	42.5113	2.03901	0.26750
Method Group 012.XX PCT			22	40.9595	2.24474	0.42273	22	40.9595	2.24474	0.42273
Fat, Mojonnier, Bak Ext	954.02	013.02	31	5.44537	0.45627	0.13016	30	5.45200	0.46037	0.11867
Fat, Soxtec-Acid Hydrolysis		013.10	17	5.21718	0.44107	0.15729	16	5.19731	0.44192	0.13275
Fat, NIR-Acid Hydrolysis		013.12	1	5.01500	0.00707	0.01000	1	5.01500	0.00707	0.01000
Fat, Pretreat or extended ext, misc ...		013.99	1	5.65000	0.07071	0.10000	1	5.65000	0.07071	0.10000
Method Group 013.XX PCT			50	5.36327	0.45698	0.13638	48	5.36212	0.46253	0.12071
Aluminum, ICP		015.00	11	70.4358	5.50128	1.99118	11	70.4358	5.50128	1.99118

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Method Group 015.XX PPM			11	70.4358	5.50128	1.99118	11	70.4358	5.50128	1.99118
Boron, ICP		017.00	7	5.89643	0.49160	0.27857	7	5.89643	0.49160	0.27857
Method Group 017.XX PPM			7	5.89643	0.49160	0.27857	7	5.89643	0.49160	0.27857
Cadmium, AA		018.01	1	0.06650	0.00071	0.00100	1	0.06650	0.00071	0.00100
Cadmium, ICP		018.02	2	0.09213	0.00131	0.00225	2	0.09213	0.00131	0.00225
Method Group 018.XX PPM			3	0.08358	0.01328	0.00183	3	0.08358	0.01328	0.00183
Calcium, Ox-Mn04 Vol	927.02	019.00	13	0.85931	0.05391	0.02325	12	0.85467	0.05221	0.01846
Calcium, At Abs Spect	968.08	019.01	48	0.85743	0.04781	0.01615	44	0.86005	0.04259	0.00982
Calcium, Semiauto (Autoanalyzer)		019.03	6	0.89085	0.04617	0.00677	6	0.89085	0.04617	0.00677
Calcium, ICP, Dry Ash		019.05	38	0.85881	0.03238	0.01609	37	0.85932	0.03055	0.01274
Calcium, EDTA		019.08	6	0.88562	0.03714	0.01713	5	0.88474	0.03848	0.00856
Calcium, ICP, Wet Ash		019.09	27	0.84125	0.05178	0.01786	26	0.83956	0.05127	0.01509
Calcium, Misc		019.99	6	0.81600	0.04506	0.02067	6	0.81600	0.04506	0.02067
Method Group 019.XX PCT			144	0.85577	0.04680	0.01693	136	0.85578	0.04465	0.01268
Chromium, AA		020.00	2	2.46250	0.04500	0.01500	2	2.46250	0.04500	0.01500
Chromium, ICP		020.01	7	2.61689	0.52432	0.44864	6	2.57804	0.45945	0.27342
Chromium, Misc		020.99	1	2.52500	0.12021	0.17000	1	2.52500	0.12021	0.17000
Method Group 020.XX PPM			10	2.57683	0.43977	0.33405	9	2.54647	0.37445	0.20450
Cobalt, AA	968.08	021.01	1	0.40000	0.00000	0.00000	1	0.40000	0.00000	0.00000
Cobalt, ICP		021.02	9	0.49642	0.23729	0.03917	8	0.51072	0.24675	0.02281
Cobalt, Misc		021.99	1	0.57450	0.00636	0.00900	1	0.57450	0.00636	0.00900
Method Group 021.XX PPM			11	0.49475	0.21690	0.03286	10	0.50602	0.22308	0.01915
Copper, AA	968.08	022.01	29	147.426	8.74326	3.30259	28	146.959	8.44101	2.95625
Copper, ICP, Dry Ash	968.08	022.03	32	146.086	10.4441	3.66253	32	146.086	10.4441	3.66253
Copper, ICP, Wet Ash	968.08	022.05	26	153.695	10.9865	3.05000	25	153.643	11.1596	2.77200
Copper, Misc		022.99	4	151.504	3.38138	2.17755	4	151.504	3.38138	2.17755
Method Group 022.XX PPM			91	148.925	10.3389	3.30754	89	148.727	10.3237	3.12344
Fluorine, Ion Sel Elect	975.08	023.01	1	0.00400	0.00000	0.00000	1	0.00400	0.00000	0.00000
Iron, Color	935.12	025.00	1	283.320	3.80423	5.38000	1	283.320	3.80423	5.38000
Iron, AA	968.08	025.01	25	276.069	29.1592	10.5670	24	275.468	29.1834	8.96566
Iron, ICP, Dry Ash	968.08	025.03	31	275.894	25.0607	9.77087	29	274.300	22.9294	6.13448
Iron, ICP, Wet Ash	968.08	025.05	22	275.834	27.3578	8.19364	20	273.643	27.3745	6.16300
Iron, Misc		025.99	4	275.566	8.43814	6.24588	4	275.566	8.43814	6.24588
Method Group 025.XX PPM			83	276.004	26.1441	9.36984	78	274.671	25.3964	7.00897
Lead,		026.00	1	0.19700	0.00424	0.00600	1	0.19700	0.00424	0.00600
Magnesium, AA	968.08	027.01	23	0.18805	0.01093	0.00320	22	0.18765	0.01092	0.00276
Magnesium, ICP, Dry Ash	968.08	027.03	33	0.19156	0.00941	0.00290	27	0.19191	0.00983	0.00132
Magnesium, ICP, Wet Ash	968.08	027.05	22	0.19085	0.01083	0.00311	22	0.19085	0.01083	0.00311
Magnesium, Misc		027.99	2	0.20185	0.01573	0.00540	2	0.20185	0.01573	0.00540

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Method Group 027.XX PCT			80	0.19062	0.01058	0.00311	73	0.19058	0.01084	0.00241
Manganese, Color	917.04	028.00	1	117.870	2.07889	2.94000	1	117.870	2.07889	2.94000
Manganese, AA	968.08	028.01	19	102.332	7.49172	2.30937	19	102.332	7.49172	2.30937
Manganese, ICP, Dry Ash	968.08	028.03	30	103.837	7.55931	2.50867	30	103.837	7.55931	2.50867
Manganese, ICP, Wet Ash	968.08	028.05	21	108.736	7.34212	4.19286	20	108.423	7.21428	3.70250
Manganese, Misc.		028.99	3	102.674	2.14661	1.61173	3	102.674	2.14661	1.61173
Method Group 028.XX PPM			74	104.984	7.81906	2.90491	73	104.846	7.73966	2.75292
Mercury,		029.00	1	0.00350	0.00212	0.00300	1	0.00350	0.00212	0.00300
Phosphorus, Photometric	965.17	031.01	55	0.64772	0.02194	0.00885	51	0.64764	0.02206	0.00699
Phosphorus, GQMP (2.028)	964.06	031.02	3	0.65498	0.00772	0.00563	3	0.65498	0.00772	0.00563
Phosphorus, Autoanalyzer		031.03	9	0.63349	0.02373	0.00548	8	0.62925	0.02115	0.00325
Phosphorus, ICP		031.05	61	0.64258	0.02514	0.01062	59	0.64284	0.02483	0.00928
Phosphorus, Hach Method		031.06	3	0.62667	0.01506	0.02000	3	0.62667	0.01506	0.02000
Phosphorus, Misc.		031.99	8	0.65531	0.02669	0.01837	8	0.65531	0.02669	0.01837
Method Group 031.XX PCT			139	0.64468	0.02395	0.01013	132	0.64453	0.02385	0.00874
Potassium, AA	975.03	032.01	18	0.68859	0.02944	0.01302	18	0.68859	0.02944	0.01302
Potassium, Flame Emission	956.01	032.02	8	0.69262	0.04113	0.01514	7	0.70228	0.03243	0.01016
Potassium, ICP		032.05	51	0.69529	0.03678	0.01282	47	0.69590	0.03689	0.00899
Potassium, Misc		032.99	1	0.72000	0.00000	0.00000	1	0.72000	0.00000	0.00000
Method Group 032.XX PCT			78	0.69379	0.03547	0.01294	73	0.69504	0.03465	0.00997
Salt, Sol Cl	943.01	033.00	20	0.83858	0.08777	0.02019	18	0.83190	0.08825	0.01353
Salt, Poten Cl	969.10	033.01	32	0.85785	0.01844	0.00933	31	0.85778	0.01838	0.00834
Salt, Quantab		033.03	6	0.72667	0.03284	0.01667	6	0.72667	0.03284	0.01667
Salt, Ion Sel Electrode		033.05	1	0.84500	0.00707	0.01000	1	0.84500	0.00707	0.01000
Salt, Misc		033.99	8	0.79000	0.10622	0.05125	9	0.74411	0.14313	0.02467
Method Group 033.XX PCT			67	0.83206	0.07302	0.01824	63	0.83159	0.07056	0.01305
Selenium, Fluor	969.06	034.01	1	0.82900	0.00424	0.00600	1	0.82900	0.00424	0.00600
Selenium, AA, Flame		034.03	1	0.75760	0.02362	0.03340	1	0.75760	0.02362	0.03340
Selenium, AA, Hydride		034.04	7	0.75550	0.11300	0.03186	7	0.75550	0.11300	0.03186
Selenium, ICP		034.05	6	0.75564	0.27926	0.03935	5	0.68177	0.24083	0.02122
Selenium, Misc		034.99	2	0.84000	0.04320	0.06000	2	0.84000	0.04320	0.06000
Method Group 034.XX PPM			17	0.76994	0.17942	0.03638	16	0.74775	0.15923	0.03053
Sodium, AA		035.00	22	0.24585	0.01714	0.00899	21	0.24541	0.01653	0.00704
Sodium, Ion Sel Electrode		035.01	5	0.25620	0.01022	0.00488	5	0.25620	0.01022	0.00488
Sodium, ICP		035.03	49	0.24435	0.01947	0.00519	45	0.24343	0.01925	0.00370
Sodium, Flame Emission	956.01	035.05	9	0.24943	0.01457	0.00527	9	0.24943	0.01457	0.00527
Sodium, Misc		035.99	1	0.25000	0.00000	0.00000	1	0.25000	0.00000	0.00000
Method Group 035.XX PCT			86	0.24602	0.01801	0.00609	81	0.24548	0.01772	0.00477
Sulfur, (Gravimetric)		036.00	1	0.24000	0.00000	0.00000	1	0.24000	0.00000	0.00000

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Sulfur, ICP		036.03	20	0.23349	0.01999	0.00489	19	0.23394	0.02012	0.00357
Sulfur, LECO		036.04	3	0.23950	0.03091	0.00853	3	0.23950	0.03091	0.00853
Method Group 036.XX PCT			24	0.23451	0.02094	0.00514	23	0.23493	0.02107	0.00406
Zinc, Dithizone	941.03	037.00	1	217.380	1.07480	1.52000	1	217.380	1.07480	1.52000
Zinc, AA	968.08	037.01	34	256.554	18.7680	6.98638	34	256.554	18.7680	6.98638
Zinc, ICP, Dry Ash	968.08	037.03	30	261.710	13.3069	4.55100	29	260.907	12.7025	4.15621
Zinc, ICP, Wet Ash	968.08	037.05	23	264.607	14.8333	11.0439	23	264.607	14.8333	11.0439
Zinc, Misc		037.99	4	253.347	5.66827	4.87645	4	253.347	5.66827	4.87645
Method Group 037.XX PPM			92	259.683	16.5464	7.05547	91	259.405	16.3994	6.95717
Molybdenum, ICP		038.00	8	1.20588	0.19762	0.09675	8	1.20588	0.19762	0.09675
Molybdenum, Misc		038.99	1	1.90000	0.14142	0.20000	1	1.90000	0.14142	0.20000
Method Group 038.XX PPM			9	1.28300	0.29329	0.10822	9	1.28300	0.29329	0.10822
Nickel, AA		039.01	2	1.76250	0.13623	0.05500	2	1.76250	0.13623	0.05500
Nickel, ICP		039.02	4	2.00050	0.39216	0.19425	4	2.00050	0.39216	0.19425
Method Group 039.XX PPM			6	1.92117	0.34155	0.14783	6	1.92117	0.34155	0.14783
Barium, ICP		040.00	1	4.34000	0.04243	0.06000	1	4.34000	0.04243	0.06000
Vanadium, ICP		041.00	3	1.22250	0.13793	0.11100	3	1.22250	0.13793	0.11100
Method Group 041.XX PPM			3	1.22250	0.13793	0.11100	3	1.22250	0.13793	0.11100
Tylosin, Plate	962.26	088.00	7	37.6079	3.47786	2.65571	7	37.6079	3.47786	2.65571
Tylosin, Turb		088.01	1	35.5000	1.55563	2.20000	1	35.5000	1.55563	2.20000
Tylosin, HPLC		088.03	1	40.5000	4.94975	7.00000	1	40.5000	4.94975	7.00000
Method Group 088.XX G/TON			9	37.6950	3.51166	3.08778	9	37.6950	3.51166	3.08778
Choline Chloride, Chem		101.01	1	980.500	6.36396	9.00000	1	980.500	6.36396	9.00000
Niacin, Chem	961.14	102.00	1	47.4450	0.31820	0.45000	1	47.4450	0.31820	0.45000
Riboflavin, Fluorometric	970.65	104.00	1	5.74500	0.16263	0.23000	1	5.74500	0.16263	0.23000
Vitamin A, Color	974.29	106.00	1	3.00000	0.14142	0.20000	1	3.00000	0.14142	0.20000
Vitamin A, HPLC		106.02	10	4.68599	0.81273	0.27411	9	4.74554	0.81553	0.18234
Vitamin A, Misc		106.99	1	0.00000	0.00000	0.00000	1	0.00000	0.00000	0.00000
Method Group 106.XX KU/LB			12	4.15499	1.55207	0.24509	11	4.15544	1.61540	0.16737
Vitamin D3, HPLC		108.02	3	3.93483	4.87977	0.60567	3	3.93483	4.87977	0.60567
Method Group 108.XX KU/LB			3	3.93483	4.87977	0.60567	3	3.93483	4.87977	0.60567
Vitamin E, HPLC		109.02	7	122.497	34.3025	1.54557	7	122.497	34.3025	1.54557
Vitamin E, Misc		109.99	1	150.500	6.36396	9.00000	1	150.500	6.36396	9.00000
Method Group 109.XX MG/KG			8	125.998	33.3760	2.47737	8	125.998	33.3760	2.47737
Alanine, Post-col Ninhydrin Der	994.12	120.00	9	0.91444	0.02775	0.01178	9	0.91444	0.02775	0.01178
Alanine, Pre-col AQC Der		120.05	1	0.94000	0.01414	0.02000	1	0.94000	0.01414	0.02000
Method Group 120.XX PCT			10	0.91700	0.02759	0.01260	10	0.91700	0.02759	0.01260
Arginine, Post-col Ninhydrin Der	994.12	121.00	9	0.90856	0.03193	0.01667	9	0.90856	0.03193	0.01667
Arginine, Pre-col AQC Der		121.05	1	0.94000	0.05657	0.08000	1	0.94000	0.05657	0.08000

- Pass 1 Results for 205 Labs - - Pass 2 Results for 205 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 121.XX PCT			10	0.91170	0.03427	0.02300	10	0.91170	0.03427	0.02300
Aspartic, Post-col Ninhydrin Der	994.12	122.00	9	1.23050	0.05082	0.01878	9	1.23050	0.05082	0.01878
Aspartic, Pre-col AQC Der		122.05	1	1.35500	0.02121	0.03000	1	1.35500	0.02121	0.03000
Method Group 122.XX PCT			10	1.24295	0.06167	0.01990	10	1.24295	0.06167	0.01990
Cysteine/Cystine, PAO Post-col Ninhydrin Der	994.12	124.00	9	0.29717	0.02533	0.01011	8	0.29388	0.02403	0.00675
Cysteine/Cystine, PAO Pre-col AQC Der		124.05	1	0.30000	0.00000	0.00000	1	0.30000	0.00000	0.00000
Method Group 124.XX PCT			10	0.29745	0.02397	0.00910	9	0.29456	0.02266	0.00600
Glutamic, Post-col Ninhydrin Der	994.12	125.00	9	2.87689	0.09592	0.03733	9	2.87689	0.09592	0.03733
Glutamic, Pre-col AQC Der		125.05	1	3.04000	0.08485	0.12000	1	3.04000	0.08485	0.12000
Method Group 125.XX PCT			10	2.89320	0.10551	0.04560	10	2.89320	0.10551	0.04560
Glycine, Post-col Ninhydrin Der	994.12	126.00	9	0.67489	0.02261	0.01244	9	0.67489	0.02261	0.01244
Glycine, Pre-col AQC Der		126.05	1	0.71500	0.00707	0.01000	1	0.71500	0.00707	0.01000
Method Group 126.XX PCT			10	0.67890	0.02475	0.01220	10	0.67890	0.02475	0.01220
Histidine, Post-col Ninhydrin Der	994.12	127.00	9	0.40806	0.03085	0.01056	9	0.40806	0.03085	0.01056
Histidine, Pre-col AQC Der		127.05	1	0.44000	0.00000	0.00000	1	0.44000	0.00000	0.00000
Method Group 127.XX PCT			10	0.41125	0.03079	0.00950	10	0.41125	0.03079	0.00950
Isoleucine, Post-col Ninhydrin Der	994.12	128.00	9	0.54756	0.03744	0.01689	9	0.54756	0.03744	0.01689
Isoleucine, Pre-col AQC Der		128.05	1	0.60500	0.00707	0.01000	1	0.60500	0.00707	0.01000
Method Group 128.XX PCT			10	0.55330	0.03962	0.01620	10	0.55330	0.03962	0.01620
Leucine, Post-col Ninhydrin Der	994.12	129.00	9	1.41839	0.06038	0.01722	8	1.41819	0.06334	0.01188
Leucine, Pre-col AQC Der		129.05	1	1.45500	0.02121	0.03000	1	1.45500	0.02121	0.03000
Method Group 129.XX PCT			10	1.42205	0.05842	0.01850	9	1.42228	0.06089	0.01389
L-Lysine, Post-col Ninhydrin Der	994.12	130.00	13	0.92622	0.06384	0.03848	12	0.92716	0.05090	0.01752
L-Lysine, Pre-col AQC Der		130.05	5	0.99020	0.07976	0.06920	5	0.99020	0.07976	0.06920
L-Lysine, Misc		130.99	1	0.85850	0.06859	0.09700	1	0.85850	0.06859	0.09700
Method Group 130.XX PCT			19	0.93949	0.07485	0.04964	18	0.94086	0.06844	0.03629
Methionine, PAO Post-col Ninhydrin Der	994.12	131.00	9	0.27294	0.01932	0.00611	8	0.26956	0.01732	0.00438
Methionine, PAO Pre-col AQC Der		131.05	2	0.25500	0.02380	0.02000	2	0.25500	0.02380	0.02000
Method Group 131.XX PCT			11	0.26968	0.02082	0.00864	10	0.26665	0.01903	0.00750
Phenylalanine, Post-col Ninhydrin Der	994.12	132.00	9	0.73450	0.05370	0.01433	9	0.73450	0.05370	0.01433
Phenylalanine, Pre-col AQC Der		132.05	1	0.74000	0.01414	0.02000	1	0.74000	0.01414	0.02000
Method Group 132.XX PCT			10	0.73505	0.05093	0.01490	10	0.73505	0.05093	0.01490
Proline, Post-col Ninhydrin Der	994.12	133.00	7	1.10893	0.08414	0.02557	7	1.10893	0.08414	0.02557
Proline, Pre-col AQC Der		133.05	1	1.26000	0.01414	0.02000	1	1.26000	0.01414	0.02000
Method Group 133.XX PCT			8	1.12781	0.09387	0.02487	8	1.12781	0.09387	0.02487
Serine, Post-col Ninhydrin Der	994.12	134.00	9	0.71933	0.03831	0.01244	9	0.71933	0.03831	0.01244
Serine, Pre-col AQC Der		134.05	1	0.74500	0.00707	0.01000	1	0.74500	0.00707	0.01000
Method Group 134.XX PCT			10	0.72190	0.03712	0.01220	10	0.72190	0.03712	0.01220
Threonine, Post-col Ninhydrin Der	994.12	135.00	9	0.56506	0.01916	0.00967	9	0.56506	0.01916	0.00967

Feed Check Sample No. - 200823 Pig Grower, Medicated
 Association of American Feed Control Officials

- Pass 1 Results for 205 Labs - - Pass 2 Results for 205 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
Threonine, Pre-col AQC Der		135.05	2	0.57500	0.01732	0.02000	2	0.57500	0.01732	0.02000
Method Group 135.XX PCT			11	0.56686	0.01885	0.01155	11	0.56686	0.01885	0.01155
Tryptophan, Alka-Hydrol Post-col Ninhyd	988.15	136.00	1	0.19000	0.00000	0.00000	1	0.19000	0.00000	0.00000
Tryptophan, Alka-Hydrol Rev Phase LC UV		136.01	3	0.17267	0.00175	0.00200	3	0.17267	0.00175	0.00200
Tryptophan, Misc		136.99	1	0.16500	0.00707	0.01000	1	0.16500	0.00707	0.01000
Method Group 136.XX PCT			5	0.17460	0.00911	0.00320	5	0.17460	0.00911	0.00320
Tyrosine, Post-col Ninhydrin Der	994.12	137.00	5	0.52260	0.02787	0.01760	5	0.52260	0.02787	0.01760
Method Group 137.XX PCT			5	0.52260	0.02787	0.01760	5	0.52260	0.02787	0.01760
Valine, Post-col Ninhydrin Der	994.12	138.00	9	0.71556	0.03433	0.02711	9	0.71556	0.03433	0.02711
Valine, Pre-col AQC Der		138.05	1	0.77000	0.01414	0.02000	1	0.77000	0.01414	0.02000
Method Group 138.XX PCT			10	0.72100	0.03669	0.02640	10	0.72100	0.03669	0.02640
Taurine, Post-col Ninhydrin Der	994.12	139.00	1	0.00000	0.00000	0.00000	1	0.00000	0.00000	0.00000
Aflatoxin, Neogen Vera-Tox		300.01	1	0.15000	0.07071	0.10000	1	0.15000	0.07071	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 002.01 --			-- Method 002.05 --		
265	0.4200	-.71	278	10.440	.79	573	11.668 S	1.97	674	14.500 s	-13.63	194	15.875	-.47
			581	10.410	.72	405	11.250	1.34				350	15.862	-.51
-- Method 001.00 --			048	10.410	.69	665	11.050	1.05	-- Method 002.02 --			596	15.850 R	-.57
596	11.950 S	3.71	571	10.340	.46	096	10.700	.54	297	16.410	1.21	354	15.815	-.65
001	10.990	1.61	038	10.320	.40	357	10.645	.44	048	16.255	.76	039	15.810	-.67
504	10.920	1.46	083	10.300	.37	672	10.460	.20	669	16.200	.61	663	15.765	-.81
169	10.600	.77	413	10.300	.33	681	10.435	.14	307	16.150	.48	552	15.750	-.85
309	10.345	.21	689	10.200	.33	Avg	10.262		152	16.100	.43	722	15.639	-1.19
509	10.280	.08	669	10.255	.26	656	10.320	-.07	Avg	15.986				
Avg	10.249		139	10.230	.12	631	10.265	-.17	187	15.875	-.32	-- Method 002.06 --		
783	10.225	-.11	Avg	10.199		729	10.240	-.31	043	15.770 R	-.81	647	16.600 s	3.63
016	10.150	-.24	345	10.195	-.02	619	10.100	-.41	169	15.495	-1.38	018	17.305 s	3.26
844	10.080	-.37	353	10.175	-.20	299	9.9213	-.66	036	15.403	-1.64	795	17.010	2.32
029	10.030	-.48	588	10.120	-.31	615	9.7350	-.94				812	16.940	2.11
720	9.6750	-1.25	187	10.100	-.33	536	9.4700	-1.35	-- Method 002.03 --			737	16.905	2.02
732	9.6300 R	-1.43	177	10.110	-.35	541	9.0800	-1.93	681	18.305 S	9.36	541	16.880	1.94
560	9.4450	-1.77	616	10.090	-.36				265	17.250 S	4.14	574	16.875	1.94
			004	10.075	-.43	-- Method 002.00 --			Avg	16.080		732	16.875	1.92
-- Method 001.03 --			675	10.055	-.51	015	16.035	1.35	536	16.080	-.71	164	16.870	1.91
663	10.445	1.03	693	10.175 R	-.61	028	16.015	.43				781	16.870	1.91
688	10.300	.59	045	10.000	-.65	679	15.990	.18	-- Method 002.04 --			278	16.750 R	1.86
Avg	10.210		089	9.9800	-.72	Avg	15.978		509	17.440 S	3.48	511	16.835	1.80
686	10.200	-.39	178	10.150 R	-.83	199	15.870	-1.21	591	16.370	1.01	190	16.700 R	1.51
731	9.8950	-1.39	679	9.9000	-1.03	826	15.490 s	-6.62	504	16.180	.57	615	16.725	1.49
			171	9.8150	-1.26				018	16.075	.37	014	16.680	1.38
-- Method 001.05 --			015	9.7950	-1.34	-- Method 002.01 --			Avg	15.933		065	16.665	1.30
610	10.240	.00	074	9.7650	-1.43	731	16.280	1.80	596	15.850	-.22	417	16.585 R	1.30
			297	9.5900	-2.02	716	16.150	.92	405	15.190	-1.72	098	16.650	1.26
-- Method 001.07 --			591	9.3900	-2.65	723	16.130	.77				013	16.645	1.24
307	11.090 R	2.98	366	8.6300 s	-5.16	672	16.075	.67	-- Method 002.05 --			074	16.635	1.22
559	10.705	1.71				652	16.050	.40	689	16.800	2.37	407	16.635	1.21
035	10.630	1.41	-- Method 001.08 --			607	16.062	.34	622	16.531	1.55	363	16.620	1.17
142	10.600	1.31	590	10.680	.78	Avg	16.012		621	16.290	.81	019	16.555	1.01
098	10.595	1.30	Avg	10.342		710	15.995	-.14	651	16.258	.71	029	16.525	.97
199	10.525	1.07	676	10.004	-.94	043	15.905	-.69	178	16.250 R	.70	693	16.385 R	.97
550	10.460 R	1.05				653	15.885	-.80	620	16.070	.13	004	16.520	.96
592	10.475	.91				656	15.840	-1.19	Avg	16.027		106	16.525	.89
607	10.456	.84				714	15.759	-1.59	177	16.005	-.10	185	16.500	.83
049	10.425	.79				299	15.147 s	-5.45	083	15.915	-.35	682	16.480	.75

* 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 003.00	--
043	16.390 R	.74	720	16.245	.07	036	15.985	-.72	619	16.000	-.17	527	4.7900	.80
616	16.460	.74	001	16.245	.06	110	16.010	-.73	631	15.880	-.88	106	4.7550	.69
345	16.445	.73	038	16.230	.01	504	16.040	-.76	596	15.850	-1.04	175	4.6550	.40
366	16.450	.68	Avg	16.225		674	15.960	-.79	729	14.655 s	-7.61	179	4.7097	.38
016	16.450	.68	764	16.195	-.09	144	15.945	-.83				190	4.6900	.34
026	16.445	.65	819	16.190	-.14	676	15.890	-.99	--	Method 002.11	--	596	4.6500	.26
233	16.445	.65	035	16.165	-.18	673	15.900	-1.00	731	16.625	1.49	017	4.6600	.12
175	16.400	.60	592	16.160	-.20	132	15.895	-1.03	688	16.500	.98	048	4.6550	.11
590	16.425	.60	096	16.155	-.21	263	15.870	-1.05	724	16.390	.60	187	4.6400	.10
646	16.405	.58	003	16.175	-.24	596	15.850	-1.12	665	16.400	.57	033	4.6550	.09
672	16.400	.52	589	16.160	-.24	045	15.850	-1.12	Avg	16.262		354	4.6500	.08
619	16.400	.52	413	16.150	-.27	108	15.795	-1.28	553	16.255	-.19	Avg	4.6387	
823	16.400	.52	298	16.130	-.28	353	15.790	-1.29	011	16.200	-.25	152	4.6000	-.20
051	16.385	.50	027	16.170	-.29	100	15.750	-1.40	631	16.105	-.71	139	4.6350	-.23
168	16.245	.49	337	16.125	-.30	208	15.750	-1.41	672	16.065	-.84	164	4.5450	-.48
047	16.250	.45	017	16.130	-.30	121	15.710	-1.53	588	15.815	-1.83	345	4.4650	-.90
089	16.370	.43	598	16.165	-.33	559	15.665	-1.66	178	15.750 R	-2.18	132	4.5150	-.94
739	16.370	.43	021	16.115	-.36	358	15.600	-1.85	297	14.910 s	-5.54	015	4.4300	-1.11
774	16.350	.40	229	16.090	-.40	122	15.585	-1.95				353	4.3950	-1.29
687	16.350	.40	512	16.085	-.43	527	15.570	-1.95	--	Method 002.99	--	194	4.2950	-1.77
786	16.350	.40	309	16.080	-.43	626	15.550	-2.00	573	16.385	1.19	026	4.0950	-2.81
571	16.258	.40	049	16.115	-.45	119	15.495	-2.16	006	16.378	1.19	337	3.8700 R	-4.05
670	16.355	.39	202	16.095	-.49	588	15.455	-2.28	305	16.270	.80	509	3.2600 s	-7.11
610	16.300	.37	138	16.060	-.50	242	15.380	-2.50	Avg	16.133		142	3.0000 s	-8.46
759	16.340	.35	226	16.050	-.54	539	15.405 s	-2.59	643	16.115	-.11	616	1.6750 s	-15.30
843	16.340	.35	520	16.115	-.56				130	15.960	-.88			
011	16.285	.33	354	16.025	-.59	--	Method 002.08	--	706	15.940	-.92	--	Method 003.01	--
726	16.320	.32	009	16.025	-.59	062	16.336	.95	724	15.885	-1.18	504	4.3200	-.71
734	16.330	.31	199	16.025	-.60	610	16.200	.58	536	15.245 s	-4.27			
808	16.325	.30	650	16.045	-.60	563	16.115	.23				--	Method 003.04	--
205	16.280	.29	550	16.055	-.62	Avg	16.088		--	Method 003.00	--	681	5.1850	-.71
529	16.315	.27	139	16.020	-.62	208	15.700	-1.49	035	8.0050 s	17.37			
033	16.300	.23	789	16.016	-.62				307	4.9000	1.44	--	Method 003.06	--
037	16.285	.21	148	16.015	-.62	--	Method 002.10	--	726	4.8800	1.25	574	6.3150 s	10.44
660	16.250	.19	294	16.015	-.63	546	17.365 s	10.94	563	4.8550	1.12	588	4.6900	1.48
357	16.250	.19	686	16.080	-.64	629	16.365	1.86	039	4.8414	1.05	688	4.6500	1.28
692	16.250	.17	010	16.010	-.66	675	16.095	.35	309	4.8300	1.02	122	4.5700	1.23
171	16.235	.14	510	16.000	-.67	Avg	16.032		265	4.8150	.91	294	4.6350	1.18
783	16.235	.14	142	16.000	-.67	688	16.000	-.17	615	4.6450 R	.90	229	4.6050	1.01

* 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 003.14	--	--	Method 004.00	--
199	4.5900	.92	674	4.4800	-.21	520	4.2550	-1.27	049	4.4450	.37	298	3.0500	-.25
511	4.5500	.71	027	4.4800	-.21	098	4.2100 R	-2.18	175	4.3450	.29	009	3.0850	-.26
148	4.5250	.57	004	4.4900	-.33	051	4.0750	-2.34	Avg	4.2735		015	3.0350	-.30
682	4.5000	.43	038	4.4350	-.48	596	3.8000 s	-3.98	021	4.1000	-.35	559	3.0800	-.30
043	4.4581	.26	653	4.4350	-.48	591	3.3650 s	-6.58	185	3.7550	-1.09	171	3.0550	-.36
669	4.4350	.11	510	4.4500	-.49	598	2.2750 s	-13.07	529	3.6900	-1.19	175	3.0900	-.40
Avg	4.4210		013	4.2550	-1.57				144	3.5700	-1.44	309	2.9900	-.43
009	4.4100	-.28	723	4.2050	-1.85	--	Method 003.11	--	110	2.8950 S	-2.86	048	2.9800	-.45
552	4.3650	-.36	675	4.1700	-2.06	724	5.6250 s	4.72	550	2.7825 S	-3.04	226	3.0000	-.49
169	4.3350	-.47	263	3.8271 A	-4.11	553	5.0000	2.20				504	2.8100	-.94
297	4.3350	-.51	001	3.3650 s	-6.97	731	4.6350	.74	--	Method 003.99	--	726	2.6100	-1.55
305	4.3150	-.58	121	2.6350 s	-11.24	297	4.4600	.04	130	5.8150 S	3.24	132	2.6250	-1.56
731	4.3050	-.75				Avg	4.4561		724	5.3350	1.75	353	2.4450	-2.07
299	4.2704	-.85	--	Method 003.10	--	631	4.4550	-.02	706	4.9500	.69	826	1.8400 s	-3.76
689	4.3500	-.91	651	4.8935	2.54	011	4.4000	-.23	631	4.8150	.31			
074	4.3550	-.97	676	4.6795	1.53	178	4.4000	-.23	Avg	4.7079		--	Method 004.01	--
559	4.3100	-1.02	623	4.6412	1.06	665	4.4150 R	-.25	737	4.6200	-.25	366	4.2500	.89
621	4.0650	-1.94	672	4.6000	.99	672	4.3950	-.25	047	4.5850	-.34	Avg	4.1350	
185	4.0600	-1.97	100	4.6000	.92	688	4.3000	-.63	710	4.4700	-.67	693	4.0200	-.84
647	4.1550 R	-3.26	233	4.6000	.82	588	4.0600	-1.60	546	4.1800	-1.49			
278	3.6000 s	-5.25	242	4.5900	.74				536	2.3400 s	-6.61	--	Method 004.03	--
581	3.2650 s	-6.32	693	4.5650	.67	--	Method 003.12	--				045	3.4500	.96
			208	4.4900	.44	670	5.0500	.86	--	Method 004.00	--	679	3.3250	.37
--	Method 003.09	--	062	4.5000	.20	Avg	4.8200		265	4.2600 s	4.01	Avg	3.2200	
590	4.7450 R	1.81	045	4.5000	.19	171	4.5900	-.87	345	3.9500	2.37	619	2.8850	-1.20
714	4.7920	1.68	720	4.4700	.12	357	1.5000 S	-12.48	596	3.9000	2.24			
722	4.7664	1.51	Avg	4.4679					337	3.7450 R	1.97	--	Method 004.06	--
651	4.7655	1.50	629	4.4400	-.18	--	Method 003.13	--	511	3.5500	1.22	675	4.2700 s	3.58
029	4.7250 R	1.50	607	4.4380	-.18	205	4.5500	.75	164	3.4500	.93	716	3.9500	2.29
673	4.6500	.86	298	4.4300	-.23	646	4.5600	.70	190	3.3800	.75	552	3.8350	1.82
358	4.6300	.73	366	4.4500	-.32	Avg	4.5050		199	3.2900	.46	588	3.7400	1.43
620	4.6255	.67	178	4.4500	-.32	028	4.4050	-1.20	208	3.2500	.41	722	3.7024	1.31
656	4.5650	.49	573	4.4590	-.39	660	3.3350 S	-14.04	647	3.2700	.40	621	3.6450	1.05
098	4.5250	.22	619	4.4150	-.60				510	3.1500	.15	710	3.5900	.82
183	4.5450	.20	363	4.3500	-.73	--	Method 003.14	--	169	3.1600	.10	673	3.5000	.61
350	4.5348	.12	119	4.3450	-.74	407	5.0150	1.52	194	3.1350	.04	674	3.5050	.48
Avg	4.5145		679	4.3300	-.82	108	4.8900	1.28	Avg	3.1338		672	3.4000	.41
354	4.5050	-.06	202	4.3300	-.86	019	4.4750	.65	509	3.0650	-.21	Avg	3.3869	
226	4.5000	-.09	089	4.2700	-1.18	413	4.4500	.37	354	3.0750	-.22	607	3.3564	-.28

* 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	--
723	3.3050	-.34	089	2.9200	-.21	527	9.0000 s	31.79	139	5.0350	.69	265	4.9300	-.20
205	3.3400	-.41	096	2.9500	-.22	563	5.7450 s	6.26	631	5.0300	.67	171	4.9200	-.22
354	3.2700	-.50	413	2.9000	-.29	726	5.3600 A	3.25	619	4.9850	.66	138	4.9250	-.26
098	3.3300	-.50	682	2.9000	-.29	679	5.2050	2.04	363	5.0300	.66	623	4.9199	-.29
027	3.2750	-.51	631	2.9050	-.31	297	5.2000	1.99	710	5.0300	.66	407	4.9150	-.32
590	3.2550	-.54	100	2.8800	-.38	504	5.1850	1.96	592	5.0300	.65	199	4.9050	-.33
689	3.2500	-.59	026	2.8300	-.58	413	5.1500	1.64	278	5.0000	.63	781	4.9050	-.33
029	3.2850	-.69	033	2.8850	-.61	337	5.1350	1.48	144	4.9650	.61	178	4.9000	-.37
688	3.2000	-.76	202	2.8350	-.70	588	5.1300	1.44	307	5.0150	.57	089	4.8900	-.45
656	3.3300	-.80	013	2.7950	-.72	226	5.1000 R	1.44	108	5.0150	.55	734	4.8900	-.47
350	3.1944	-.83	074	2.7250	-1.02	345	5.1250	1.40	185	5.0100	.52	720	4.9150	-.50
591	3.1300	-1.04	307	2.7000	-1.10	682	5.1200	1.36	722	5.0037	.49	674	4.8900	-.50
653	3.1150	-1.12	110	2.7000	-1.10	062	5.1180	1.36	004	5.0050	.46	164	4.8800	-.53
610	3.1000	-1.23	021	2.6700	-1.23	731	5.1000	1.26	035	5.0050	.46	083	4.8750	-.60
731	3.0700	-1.29	035	2.6650	-1.24	646	5.1050	1.26	350	5.0047	.45	001	4.8700	-.61
670	3.1200 R	-1.48	004	2.6400	-1.41	629	5.0950	1.22	520	4.9550	.44	548	4.9265	-.61
178	3.1000 R	-1.68	242	2.6000	-1.51	590	5.1000	1.20	152	5.0000	.42	739	4.9300	-.64
598	2.3650 s	-4.15	536	2.8800 R	-1.53	672	5.1000	1.20	653	4.9900	.41	205	4.8650	-.66
			011	2.5800	-1.63	357	5.1000	1.20	229	4.9900	.41	100	4.8650	-.67
						651	5.0985	1.19	015	4.9850	.41	552	4.8600	-.70
--	Method 004.07	--	--	Method 004.11	--	187	5.0900	1.12	242	4.9950	.40	539	4.8750	-.71
407	3.9500 s	3.91	178	4.7000 S	2.25	723	5.0600	1.09	783	4.9950	.40	650	4.8550	-.72
019	3.5350	2.29	672	4.3050	1.37	148	5.0800	1.05	358	4.9650	.38	732	4.8550	-.73
669	3.4900	2.08	665	3.9650	.62	729	5.0550	1.03	643	4.9950	.38	175	4.8650	-.73
278	3.3500	1.62	631	3.8350	.33	038	5.0650	.99	616	4.9800	.35	121	4.8815	-.77
185	3.2672	1.19	731	3.7250 R	.29	132	5.0650	.93	202	4.9600	.33	670	4.8500	-.77
646	3.1900	.94	724	3.7550	.17	686	5.0650	.93	305	4.9500	.31	366	4.8500	-.85
581	3.1950	.93	688	3.7000	.03	045	5.0500	.90	660	4.9850	.30	550	4.8475	-.88
144	3.2000	.91	Avg	3.6869		688	5.0500	.90	298	4.9800	.27	194	4.8350	-.88
708	3.1600	.76	553	3.6650	-.06	656	5.0600	.89	098	4.9750	.23	795	4.8250	-.96
028	3.1500	.74	011	3.6000	-.19	675	5.0600	.89	621	4.9750	.23	684	4.8250	-.96
643	3.1200	.65	588	2.6700	-2.25	591	5.0500	.81	294	4.9600	.19	027	4.8250	-.97
592	3.1300	.63				529	4.9500 R	.78	689	4.9650	.19	759	4.8200	-1.00
098	3.1150	.58	--	Method 004.99	--	669	5.0450	.78	764	4.9500	.16	033	4.8150	-1.03
610	3.1000	.51	626	4.1900	1.23	622	5.0417	.75	119	4.9550	.13	179	4.8150	-1.04
520	3.0200	.25	Avg	3.4317		693	5.0400	.75	661	4.9600	.13	353	4.8200	-1.07
229	3.0200	.25	724	3.2550	-.29	029	5.0400	.73	354	4.9500	.08	110	4.8150	-1.09
294	3.0100	.15	629	2.8500	-.95	541	4.9750	.70	Avg	4.9467		048	4.8050	-1.13
Avg	2.9735					559	5.0300	.69	510	4.9450	-.04	051	4.7900	-1.23
003	2.9400	-.14												

* 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 005.11	--	--	Method 008.02	--	--	Method 009.04	--	--	Method 009.99	--
026	4.7900	-1.23	731	5.0700	-.41	353	4.2350	-1.08	504	16.865	1.03	619	22.500 S	14.47
598	4.7850	-1.28	665	5.0500	-.44				Avg	16.315		643	14.255	.86
808	4.7750	-1.41	631	4.8700	-1.41	--	Method 008.05	--	726	15.765	-.66	Avg	13.748	
620	4.7550	-1.50				265	5.4500	.71				646	13.240	-.88
049	4.7550	-1.51	--	Method 005.99	--				--	Method 009.07	--			
647	4.7950 R	-1.54	536	5.4800 S	4.00	--	Method 008.08	--	179	15.297	1.42	--	Method 010.03	--
019	4.7500	-1.54	716	5.2000	1.62	299	6.7276 s	3.69	307	14.550 R	1.00	027	9.9000	.88
417	4.7500	-1.61	724	5.1450	1.16	592	5.6675	1.96	045	14.750	.94	Avg	9.0975	
676	4.7405	-1.64	096	5.1000	.78	510	5.5500	1.75	226	14.500	.74	826	8.2950	-.86
169	4.7300	-1.70	681	5.0900	.77	536	5.3450	1.47	297	14.370	.60	546	7.7700 S	-1.41
812	4.7250	-1.75	130	5.0165	.16	693	5.1550	1.10	309	14.250	.50			
309	4.7350	-1.79	663	5.0150	.07	278	5.0500	1.01	693	13.790	.11	--	Method 010.11	--
774	4.7100	-1.88	208	5.0150	.07	001	4.9600	.79	Avg	13.680		724	11.400	1.15
615	4.6600	-2.25	Avg	5.0079		674	4.7050	.64	038	13.015	-.60	672	11.345	1.03
596	4.6500	-2.36	652	4.9000	-.91	033	4.7800	.47	098	12.945	-.66	688	11.250	.80
299	4.6209	-2.57	673	4.9000	-.91	Avg	4.4951		353	12.040	-1.44	Avg	10.907	
607	4.5134 A	-3.41	122	4.8850	-1.06	357	4.4500	-.11	663	11.840	-1.61	631	10.800	-.25
819	4.4500 s	-4.86	706	4.8200	-1.59	581	4.3300	-.32				588	10.770	-.32
021	4.3150 s	-5.00	574	4.7950 R	-1.86	026	4.2950	-.33	--	Method 009.09	--	178	10.600	-.71
142	4.2000 s	-5.86				110	4.2850	-.39	299	16.170	2.59	731	10.185	-1.68
			--	Method 006.05	--	037	4.2750	-.42	536	15.550 R	2.20	297	8.3050 s	-6.04
--	Method 005.01	--	710	3.5100	.71	004	4.2250	-.45	674	15.115	1.78			
826	4.5650	.71				413	4.2500	-.47	510	13.850	.79	--	Method 010.99	--
			--	Method 008.02	--	049	4.2400	-.50	357	13.800	.76	714	10.937	1.60
--	Method 005.02	--	527	8.6850 s	7.64	202	4.3450	-.59	592	13.485	.51	130	10.595 R	1.38
610	5.0500	.00	226	6.0000	2.39	294	4.0150	-.80	294	13.175	.28	724	10.610	.85
			405	5.4700	1.36	164	4.0000	-.83	Avg	12.842		673	10.600	.83
--	Method 005.03	--	187	5.1000	.62	185	3.9150	-.97	164	12.800	-.08	417	10.480	.76
783	4.5650	.71	179	5.0300	.48	354	3.5650	-1.54	202	12.585	-.22	652	10.300	.70
Avg	4.5650		038	4.8250	.19	653	3.4900	-1.66	185	12.437	-.34	337	10.320	.39
737	4.4700 S	-2.01	Avg	4.7838					037	12.190	-.51	726	10.350	.28
			171	4.7750	-.05	--	Method 008.99	--	653	11.890	-.75	529	10.330	.21
--	Method 005.11	--	309	4.7250	-.12	307	5.1000 R	1.67	265	11.900	-.77	Avg	10.240	
672	5.4700 S	1.83	504	4.5400	-.52	297	5.0400	1.23	049	11.865	-.80	037	10.195	-.18
688	5.3500	1.22	045	4.6500 R	-.56	Avg	4.6283		354	11.805	-.81	716	10.200	-.25
Avg	5.0800		726	4.5050	-.56	646	4.5350	-.28	581	11.805	-.81	706	9.7450	-1.14
178	5.1000	-.15	148	4.4400	-.68	358	4.3100	-.95	413	11.750	-.86	168	9.7100	-1.23
724	5.0650	-.35	619	4.2800	-1.00				278	11.700	-.89	527	9.3400	-2.07
588	5.0550	-.40	098	4.2650	-1.02									

* 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 011.01	--	--	Method 012.04	--	--	Method 013.02	--
541	11.815	1.51	164	11.305	.29	621	10.210	-2.33	051	45.250	1.49	764	5.0300	-.92
623	11.762	1.40	051	11.290	.26	407	10.150	-2.48	Avg	41.020		732	5.0200	-.94
808	11.770	1.40	548	11.282	.23	591	10.125	-2.53	353	40.530	-.17	581	5.0400	-.99
574	11.535 R	1.36	759	11.185	.23	294	10.120	-2.55	510	40.350	-.27	774	4.9900	-1.06
643	11.700	1.23	646	11.210	.20	710	10.110	-2.57	278	37.950	-1.08	011	4.9500	-1.14
737	11.695	1.22	510	11.250	.20	781	9.8000 s	-3.31				591	4.5800	-1.90
764	11.690	1.21	021	11.230	.15				--	Method 012.11	--	734	4.5700	-1.92
559	11.655	1.13	354	11.220	.10	--	Method 011.99	--	588	45.670	1.55	337	2.4750 s	-6.52
812	11.650	1.12	194	11.215	.08	265	10.855	.87	Avg	42.511				
185	11.615	1.04	739	11.205	.06	Avg	10.680		731	42.260	-.14	--	Method 013.10	--
148	11.600	1.00	Avg	11.184		684	10.505	-.86	672	41.365	-.56	185	6.1300	2.11
208	11.600	1.00	309	11.160	-.07				178	40.750	-.87	656	5.6550	1.04
110	11.575	.99	033	11.160	-.09	--	Method 012.00	--				660	5.5350 R	.99
242	11.580	.96	622	11.133	-.13	689	43.850	1.59	--	Method 013.02	--	177	5.5850	.88
682	11.580	.95	226	11.150	-.14	559	42.150	.47	354	6.6200	2.54	417	5.5050	.88
202	11.560	.91	358	11.125	-.18	548	42.150	.44	789	6.1450	1.52	652	5.4500	.80
823	11.550	.88	152	11.100	-.20	672	42.000	.36	643	6.0600	1.33	539	5.4000	.49
795	11.545	.87	620	11.088	-.23	354	41.850	.23	826	6.0200	1.23	716	5.2550	.27
121	11.536	.85	298	11.080	-.25	Avg	41.516		808	5.8500	.86	688	5.2000	.01
098	11.480	.78	552	11.065	-.28	653	41.030	-.36	650	5.8000	.77	672	5.2000	.01
843	11.505	.77	675	11.040	-.34	673	40.250	-.94	003	5.7200	.70	Avg	5.1973	
350	11.484	.72	539	11.085	-.35	178	38.850	-1.83	065	5.7650	.69	096	5.1350	-.15
138	11.475	.70	647	11.065	-.40				033	5.7250	.60	673	4.9500	-.57
653	11.470	.68	175	11.050	-.48	--	Method 012.01	--	164	5.6900	.52	610	4.9000	-.67
774	11.400	.57	650	10.910	-.66	686	39.460	.73	795	5.6150	.43	353	4.8850	-.72
723	11.420	.57	062	10.922	-.66	Avg	39.030		759	5.6200	.40	714	4.8900	-.73
520	11.415	.56	132	10.905	-.67	096	38.600	-.98	051	5.5600	.24	062	4.7720	-.96
144	11.295 R	.56	660	10.890	-.74	185	33.475 S	-12.57	100	5.4950	.19	663	4.2450	-2.16
100	11.400	.52	819	10.870	-.77				202	5.4800	.07			
511	11.370	.46	122	10.855	-.81	--	Method 012.02	--	Avg	5.4520		--	Method 013.12	--
233	11.360	.45	171	10.835	-.84	202	38.925	.71	823	5.4000	-.11	672	5.0150	.71
205	11.330	.44	108	10.795	-1.01				208	5.3750	-.17			
229	11.340	.42	674	10.860 R	-1.06	--	Method 012.03	--	812	5.3600	-.20	--	Method 013.99	--
789	11.270	.37	596	10.650	-1.28	098	41.390	.82	026	5.3000	-.34	689	5.6500	-.71
179	11.323	.33	670	10.630	-1.33	297	40.430	.44	171	5.2900	-.47			
651	11.322	.33	598	10.630	-1.33	Avg	39.290		229	5.2300	-.49	--	Method 015.00	--
722	11.320	.33	305	10.495	-1.66	684	36.050	-1.28	616	5.2150	-.52	353	79.855	1.78
119	11.315	.32	363	10.485	-1.68				548	5.2465 R	-.68	345	74.810	.81
734	11.315	.31	563	10.455	-1.74				739	5.0450	-.89	510	73.500	.56

* 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 015.00	--	--	Method 019.00	--	--	Method 019.01	--	--	Method 019.05	--	--	Method 019.08	--
616	72.700	.41	Avg	0.8547		169	0.8450	-.37	294	0.8950	1.18	689	1.0400 S	4.07
560	71.700	.30	651	0.8120	-.82	650	0.8450	-.37	413	0.8900	1.06	723	0.9395	1.43
169	72.000	.29	716	0.8000	-1.05	563	0.8439	-.38	242	0.8850	.86	590	0.8900 R	.79
154	71.000	.21	622	0.7988	-1.08	350	0.8441	-.39	510	0.8850	.86	673	0.9100	.66
Avg	70.436		552	0.8050	-1.16	039	0.8415	-.44	029	0.8849	.84	Avg	0.8847	
520	69.500	-.32	620	0.7903	-1.24	263	0.8364	-.55	629	0.8800	.68	138	0.8785	-.20
011	66.528	-.72				305	0.8300	-.71	185	0.8775	.64	607	0.8557	-.76
021	62.700	-1.41	--	Method 019.01	--	536	0.8230	-.88	004	0.8717	.60	729	0.8400	-1.19
164	60.500	-1.83	720	0.9600	2.35	013	0.8515 R	-.88	144	0.8770	.59			
			646	0.9500	2.13	152	0.8150	-1.06	226	0.8750	.54	--	Method 019.09	--
--	Method 017.00	--	504	0.9437	1.96	098	0.8150	-1.11	148	0.8725	.48	035	0.9300	1.77
294	10.170 s	8.69	669	0.9355	1.78	612	0.8050	-1.30	297	0.8700	.48	202	0.9200	1.57
353	6.5750	1.49	619	0.9340	1.75	710	0.8050	-1.30	187	0.8710	.40	096	0.8850 R	1.25
560	6.1050	.70	631	0.9250 R	1.73	065	0.8030	-1.34	298	0.8700	.35	199	0.8839	.87
345	6.0550	.34	529	0.9200	1.41	278	0.8000	-1.41	208	0.8600	.33	353	0.8750	.75
045	6.0000	.21	307	0.8950	1.01	016	0.7930 R	-2.19	598	0.8650	.25	017	0.8700	.62
Avg	5.8964		010	0.8950	.83	142	0.7550	-2.47	074	0.8600	.02	345	0.8715	.62
358	5.8900	-.20	139	0.8865	.62	108	0.7550 S	-2.78	Avg	0.8593		190	0.8650	.58
510	5.6000	-.61	178	0.8650	.60	019	0.7450 R	-2.82	682	0.8500	-.31	027	0.8670	.54
693	5.0500	-1.80	656	0.8750	.37	337	0.8150 s	-3.12	358	0.8500	-.45	045	0.8650	.51
			354	0.8750	.37	591	0.6750 s	-4.38	026	0.8570	-.46	357	0.8650	.51
--	Method 018.01	--	026	0.8750	.37	014	0.6635 s	-4.62	512	0.8537	-.48	366	0.8600	.44
716	0.0665	.71	233	0.8700	.23	511	0.6500 s	-4.94	100	0.8450	-.50	560	0.8600	.42
			038	0.8690	.22				089	0.8400	-.63	021	0.8602	.40
--	Method 018.02	--	687	0.8650	.17	--	Method 019.03	--	610	0.8335	-.85	047	0.8555	.37
011	0.0923	.96	036	0.8625	.06	307	0.9800	1.93	168	0.8315	-.91	186	0.8505	.26
Avg	0.0921		Avg	0.8600		036	0.9051	.31	011	0.8316	-.91	028	0.8400	.20
154	0.0920	-.77	035	0.8600	.00	Avg	0.8909		520	0.8200	-1.29	572	0.8420	.14
			001	0.8565	-.12	043	0.8850	-.17	405	0.8200	-1.33	037	0.8410	.03
--	Method 019.00	--	208	0.8535	-.16	026	0.8700	-.50	229	0.8200	-1.33	Avg	0.8396	
681	1.0300 s	3.69	675	0.8550	-.17	686	0.8550	-.78	553	0.8170	-1.49	726	0.8250	-.30
647	0.9500	1.87	731	0.8550	-.17	048	0.8500	-.88	407	0.8100	-1.61	154	0.8141	-.50
623	0.9150 R	1.39	363	0.8550	-.17				051	0.8100	-1.65	309	0.7900	-.99
679	0.9000	.87	205	0.8520	-.19	--	Method 019.05	--	083	0.8050	-1.84	693	0.7790	-1.19
621	0.8900	.70	722	0.8512	-.21	550	1.0200 s	5.26	003	0.8400 R	-2.38	110	0.7750	-1.29
194	0.8850	.59	588	0.8525	-.22	265	0.9200	2.01	661	0.3495 s	-16.69	038	0.7585	-1.64
043	0.8800	.49	018	0.8595	-.22	548	0.8961	1.39				106	0.7405	-1.93
689	0.8750	.48	674	0.8600	-.23	171	0.9000	1.33				616	0.7250	-2.24
175	0.8700	.35	653	0.8490	-.31	164	0.8950	1.18						

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
-- Method 019.99 --			-- Method 021.02 --			-- Method 022.01 --			-- Method 022.05 --			-- Method 025.00 --		
692	0.8600	1.18	011	0.4523	-.24	511	108.50 s	-4.58	038	171.50	1.61	358	283.32	.71
676	0.8595	1.02	572	0.3800	-.53				294	169.00	1.38			
588	0.8250	.20	560	0.3820 R	-.63	-- Method 022.03 --			202	166.50	1.15	-- Method 025.01 --		
Avg	0.8160		616	0.0000	-2.07	011	160.40	1.37	017	165.00	1.02	675	382.14 s	3.66
724	0.8050	-.27				148	159.00	1.24	199	164.75	1.00	175	334.00	2.01
121	0.8065	-.33	-- Method 021.99 --			413	158.00	1.16	021	159.50	.64	720	315.06	1.44
665	0.7400	-1.69	610	0.5745	-.71	003	156.50	1.13	309	159.00	.53	350	314.85	1.35
						164	156.50	1.05	035	159.50	.53	504	290.50 R	.98
-- Method 020.00 --			-- Method 022.01 --			265	156.00	1.02	357	159.00	.49	208	302.00	.91
164	2.5000	.83	014	160.50 R	1.78	512	152.70	.68	190	158.96	.48	098	298.00	.82
Avg	2.4625		720	161.09	1.69	226	153.00	.67	096	155.00 R	.46	038	298.00	.78
208	2.4250	-.90	278	157.25	1.31	100	153.00	.67	560	158.50	.46	722	295.67	.69
674	0.0000 S	-54.72	013	158.00	1.31	029	151.85	.66	345	157.90	.39	619	291.00	.60
			504	158.00	1.31	297	152.00	.60	027	156.57	.31	278	291.00	.58
-- Method 020.01 --			208	155.50	1.01	553	152.00	.57	186	155.00	.22	731	281.00	.22
021	2.8500 R	1.74	590	154.50	.90	185	150.50	.43	572	154.50	.09	563	276.93	.09
154	3.3500	1.68	038	154.50	.90	208	150.00	.42	Avg	153.64		Avg	275.47	
011	2.5983	.08	591	154.12	.87	187	150.01	.38	169	151.50	-.23	354	275.15	-.04
038	2.6000	.05	098	153.90	.84	229	149.00	.29	366	148.50	-.46	689	271.40	-.15
Avg	2.5780		653	152.74	.70	026	149.00	.29	045	149.50	-.49	307	271.50	-.23
171	2.2500	-.79	731	148.00	.27	004	147.00	.21	726	147.20	-.58	591	267.90	-.26
560	2.1700	-.91	350	148.70	.21	407	146.50	.15	154	145.50	-.83	716	265.45	-.35
096	2.5000	-1.10	337	147.50	.09	074	146.50	.15	693	144.00	-.87	669	273.13	-.36
			Avg	146.96		Avg	146.09		353	141.05	-1.14	646	264.85	-.39
-- Method 020.99 --			305	145.42	-.20	548	143.93	-.21	106	140.50	-1.18	014	260.50	-.59
616	2.5250	.71	716	145.17	-.23	358	144.42	-.28	037	129.65	-2.15	305	248.86	-.91
			689	146.70	-.27	610	143.50	-.29	616	128.50	-2.26	035	235.50	-1.38
-- Method 021.01 --			588	144.50	-.30	171	140.50	-.55				511	230.00	-1.58
619	1.5550 S	.00	619	145.50	-.45	510	140.50	-.59	-- Method 022.99 --			710	227.50	-1.64
689	0.4000	.00	175	146.00	-.49	405	139.50	-.67	607	155.96	1.35	674	222.00	-1.83
Avg	0.4000		178	143.00	-.59	144	139.00	-.69	692	151.75	.35			
			354	140.95	-.73	083	133.50	-1.21	Avg	151.50		-- Method 025.03 --		
-- Method 021.02 --			035	140.50	-.77	550	129.45	-1.61	121	150.62	-.44	553	334.00	2.66
510	0.8550	1.40	675	140.11	-.82	520	126.00	-1.98	536	147.69	-1.17	550	319.00 R	2.13
106	0.7135	.83	307	139.50	-.90	242	125.00	-2.02				003	279.00 R	1.89
171	0.6000	.36	646	138.43	-1.02	598	120.00	-2.50	-- Method 023.01 --			265	294.00	1.08
154	0.5850	.32	674	133.50	-1.65				619	0.0040	.00	029	297.50	1.02
Avg	0.5107		722	132.80	-1.68							100	296.50	.97
169	0.5000	-.04	710	129.00	-2.13							148	296.00	.95

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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 027.99	--
297	295.00	.91	345	272.85	-.12	035	0.1900	.22	171	0.1835	-.86	003	0.2150	.89
413	293.00	.82	572	269.50	-.15	337	0.1900	.22	294	0.1850 R	-.87	Avg	0.2019	
510	292.00	.77	035	269.50	-.28	278	0.1900	.22	051	0.1850 R	-.87	692	0.1887	-.84
548	288.86	.66	560	264.00	-.37	722	0.1881	.07	083	0.1850 R	-.87			
512	279.85	.50	309	259.70	-.58	Avg	0.1876		185	0.1822	-1.01	--	Method 028.00	--
004	285.00	.47	106	256.50	-.64	038	0.1830	-.44	598	0.1800	-1.21	358	117.87	.71
208	284.50	.46	726	254.16	-.71	098	0.1850	-.52	520	0.1800	-1.21			
164	282.00	.35	154	253.00	-.77	142	0.1800	-.70	229	0.1800	-1.21	--	Method 028.01	--
229	276.00	.19	353	251.35	-.81	169	0.1750	-1.25	629	0.1765	-1.57	014	142.00 s	5.30
026	276.50	.12	190	240.38	-1.22	710	0.1700	-1.62				720	131.67 S	3.93
Avg	274.30		037	210.45	-2.33	588	0.1660	-1.98	--	Method 027.05	--	208	117.00	1.96
168	272.00	-.10	616	14.850 s	-9.45	175	0.1650	-2.12	202	0.2150	2.28	588	114.00	1.56
407	272.00	-.11							035	0.2050	1.38	504	109.50	.98
171	270.00	-.19	--	Method 025.99	--	--	Method 027.03	--	345	0.2045	1.26	675	109.48	.96
011	266.15	-.36	121	285.50	1.27	550	0.2160	2.45	693	0.2000	.86	731	107.50	.72
083	266.00	-.40	607	278.05	.64	405	0.2100	1.84	357	0.2000	.84	619	104.50	.44
610	263.50	-.48	Avg	275.57		265	0.2100	1.84	726	0.1950	.60	563	104.25	.26
520	262.00	-.56	692	272.25	-.40	610	0.2010	.97	037	0.1960	.48	278	103.50	.25
144	259.50	-.69	027	266.46	-1.15	413	0.2000	.82	038	0.1935	.25	178	104.00	.22
405	249.00	-1.11				297	0.2000	.82	560	0.1925	.21	Avg	102.33	
242	248.00	-1.15	--	Method 026.00	--	074	0.2000	.82	021	0.1921	.14	307	102.00	-.27
226	246.50	-1.21	154	0.1970	.71	164	0.1950 R	.60	199	0.1912	.11	350	100.25	-.28
187	244.85	-1.29				358	0.1950 R	.60	572	0.1915	.08	035	101.00	-.32
598	239.50	-1.52	--	Method 027.01	--	100	0.1950 R	.60	Avg	0.1909		098	100.50	-.41
629	225.00	-2.15	536	0.2390 s	4.70	148	0.1950	.33	366	0.1900	-.08	722	98.076	-.62
			646	0.2300 S	3.88	011	0.1944	.25	017	0.1900	-.08	038	97.500	-.68
			720	0.2200 S	3.10	208	0.1940	.24	154	0.1870	-.37	175	96.500	-.80
--	Method 025.05	--	307	0.2050	1.65	004	0.1940	.21	186	0.1865	-.40	710	96.000	-.86
366	325.50	1.91	563	0.2020	1.32	548	0.1920	.11	309	0.1837	-.68	354	94.210	-1.09
038	317.00	1.59	731	0.2000	1.15	Avg	0.1919		096	0.1850	-.71	689	84.550	-2.38
294	306.16	1.19	650	0.1970 R	1.04	226	0.1900	-.19	353	0.1800	-1.00	305	79.520 S	-3.05
017	300.50 R	1.10	504	0.1976	.91	510	0.1900	-.19	045	0.1800	-1.00			
021	302.25	1.05	139	0.1944	.61	242	0.1900	-.19	106	0.1715	-1.79	--	Method 028.03	--
096	295.00 R	.95	263	0.1943	.61	029	0.1887	-.33	616	0.1690	-2.04	550	140.95 s	4.93
045	297.50	.87	350	0.1915	.37	553	0.1895	-.35	110	0.1550 s	-3.59	265	115.00	1.50
169	282.50	.47	014	0.1905	.35	144	0.1875	-.47				510	114.00	1.34
186	283.00	.35	619	0.1910	.31	026	0.1875	-.51				003	113.50	1.32
693	279.50	.21	208	0.1900	.23	187	0.1855	-.66				242	112.00	1.08
199	278.05	.16	305	0.1900	.22	407	0.1845	-.76				405	111.00	1.03
Avg	273.64													

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 028.03	--	--	Method 028.05	--	--	Method 031.01	--	--	Method 031.01	--	--	Method 031.05	--
413	110.50	.88	038	110.00	.22	687	0.6500	.47	194	0.6050	-1.95	074	0.6650	.92
208	108.50	.77	Avg	108.42		278	0.6550	.40	689	0.5950	-2.40	208	0.6655	.91
229	109.00	.70	169	106.50	-.28	619	0.6550	.34	674	0.6150 s	-2.52	345	0.6635	.83
029	108.25	.60	309	104.35	-.58	036	0.6535	.27	596	0.5900 s	-2.94	171	0.6600	.80
171	108.00	.57	560	104.00	-.63	018	0.6515	.24	656	0.5450 s	-4.91	029	0.6604	.75
004	107.00	.42	106	103.50	-.71	065	0.6490	.08	337	0.1200 s	-23.92	202	0.6600	.69
074	106.50	.40	572	105.50	-.74	Avg	0.6476					413	0.6600	.69
148	106.50	.36	294	102.69	-.80	622	0.6448	-.13	--	Method 031.02	--	510	0.6600	.69
185	106.50	.36	096	105.00	-.84	651	0.6435	-.20	014	0.6635	1.31	027	0.6595	.68
164	106.00	.32	693	101.20	-1.07	722	0.6435	-.21	Avg	0.6550		168	0.6550	.61
100	105.00	.31	616	91.100	-2.43	233	0.6450	-.26	011	0.6515	-.60	298	0.6550	.53
011	104.95	.15	037	80.400 s	-3.96	591	0.6450	-.26	043	0.6500	-.65	358	0.6500	.50
Avg	103.84					647	0.6450	-.26	013	0.3450 S	-40.18	148	0.6535	.44
026	103.50	-.08	--	Method 028.99	--	026	0.6450	-.26				037	0.6525	.40
187	102.84	-.16	607	104.81	1.00	098	0.6450	-.26	--	Method 031.03	--	144	0.6500	.30
548	101.89	-.26	Avg	102.67		354	0.6450	-.26	504	0.6675 R	1.89	682	0.6500	.29
297	102.00	-.36	692	102.60	-.65	665	0.6450	-.26	208	0.6535	1.15	100	0.6450	.22
407	101.00	-.38	536	100.62	-1.04	263	0.6406	-.32	043	0.6500	.98	548	0.6442	.15
083	102.00	-.47				169	0.6400	-.35	026	0.6450	.78	309	0.6448	.08
553	99.100	-.64	--	Method 029.00	--	035	0.6400	-.35	720	0.6400	.51	Avg	0.6428	
610	97.200	-.88	675	0.0035	.71	646	0.6400	-.35	036	0.6305	.06	089	0.6400	-.11
144	95.400	-1.19				588	0.6385	-.41	Avg	0.6293		357	0.6400	-.11
520	93.000	-1.49	--	Method 031.01	--	723	0.6370	-.52	307	0.6100	-.91	185	0.6385	-.18
629	89.000	-1.97	016	1.0130 s	25.82	152	0.6400	-.57	048	0.6100	-.91	366	0.6350	-.37
226	89.000	-1.97	669	0.7080	2.74	675	0.6400	-.57	047	0.5950	-1.64	045	0.6350	-.37
598	87.000	-2.23	716	0.7050	2.61	019	0.6400	-.57				297	0.6400	-.42
			653	0.6955	2.17	529	0.6350	-.62	--	Method 031.05	--	164	0.6400	-.42
--	Method 028.05	--	122	0.6850	1.71	363	0.6350	-.62	550	0.7645 s	4.90	190	0.6400	-.42
357	122.50	1.98	305	0.6750	1.26	001	0.6325	-.69	560	0.6860	1.78	405	0.6300	-.52
345	119.61	1.55	142	0.6700	1.11	205	0.6355	-.73	003	0.6850	1.71	242	0.6300	-.52
035	115.00 R	1.33	731	0.6650 R	1.04	038	0.6305	-.78	610	0.6830	1.63	553	0.6355	-.55
726	113.72	.98	679	0.6700	1.01	626	0.6300	-.80	265	0.6800	1.55	004	0.6290	-.56
017	114.00	.82	139	0.6675	.90	621	0.6300	-.80	693	0.6785	1.49	226	0.6300	-.66
353	113.25	.67	607	0.6672	.89	108	0.6350 R	-.89	021	0.6756	1.32	017	0.6300	-.66
021	109.05	.54	623	0.6661	.84	178	0.6400 R	-.97	598	0.6750	1.31	121	0.6270	-.66
366	111.00	.38	650	0.6550 R	.76	039	0.6252	-1.02	096	0.6550 R	1.12	572	0.6265	-.67
202	111.00	.38	175	0.6600	.72	710	0.6250	-1.05	294	0.6700	1.09	187	0.6245	-.74
045	111.00	.36	620	0.6618	.64	350	0.6233	-1.10	038	0.6685	1.09	083	0.6250	-.75
186	109.50	.26	563	0.6598	.55	511	0.6200	-1.25	512	0.6655	.97	726	0.6250	-.75

* 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	--
051	0.6250	-.75	205	0.7050	.56	553	0.7225	.72	616	0.6055	-2.46	337	0.8800	1.33
616	0.6220	-.93	035	0.7000	.39	171	0.7205	.67	187	0.6044	-2.48	510	0.8800	1.33
199	0.6164	-1.06	175	0.6900	.34	550	0.7160	.66	051	0.6050 s	-2.64	164	0.8600 R	1.09
186	0.6165	-1.09	098	0.6900	.34	413	0.7200	.65	110	0.5700 s	-3.91	038	0.8750	.98
229	0.6150	-1.14	Avg	0.6886		265	0.7150	.54				175	0.8750	.98
407	0.6100	-1.32	350	0.6856	-.16	610	0.7085	.34	--	Method 032.99	--	205	0.8750	.96
629	0.6100	-1.32	139	0.6790	-.35	294	0.7050	.28	692	0.7200	.00	039	0.8710	.72
520	0.6150 R	-1.51	710	0.6750	-.49	100	0.7050	.28				202	0.8700	.66
035	0.6050	-1.54	038	0.6715	-.61	017	0.7050	.28	--	Method 033.00	--	019	0.8700	.66
353	0.5950	-1.94	354	0.6650	-.82	083	0.7050	.28	297	1.0000	1.90	185	0.8683	.59
154	0.5940	-2.04	720	0.6550	-1.15	726	0.7050	.28	539	0.9350 R	1.27	096	0.8600	.56
106	0.5765	-2.67	563	0.6545	-1.16	199	0.7032	.20	407	0.9100	.89	199	0.8650	.48
110	0.5450 s	-4.07	142	0.6250	-2.17	144	0.6990	.10	675	0.9050	.83	011	0.8626	.26
661	0.2915 s	-14.16				026	0.6965	.10	169	0.8950	.77	307	0.8600	.12
			--	Method 032.02	--	Avg	0.6959		016	0.8915	.68	100	0.8600	.12
--	Method 031.06	--	504	0.7325	.97	309	0.6926	-.09	512	0.8625 R	.53	Avg	0.8578	
536	0.6350	.65	169	0.7250	.72	510	0.6900	-.16	596	0.8650	.41	650	0.8550	-.31
Avg	0.6267		731	0.7200	.63	029	0.6889	-.19	366	0.8650	.38	354	0.8550	-.31
138	0.6250	-.35	536	0.7140	.38	548	0.6908	-.23	208	0.8585	.31	413	0.8550	-.31
686	0.6200	-1.40	Avg	0.7023		357	0.6900	-.31	689	0.8500	.23	590	0.8500	-.42
			588	0.6995	-.09	358	0.6900	-.31	731	0.8350	.07	021	0.8482	-.59
--	Method 031.99	--	716	0.6900	-.38	045	0.6850	-.33	Avg	0.8319		048	0.8500	-.69
676	0.6875	1.61	590	0.6350	-2.09	164	0.6950	-.41	693	0.8195	-.14	226	0.8450	-.75
631	0.6800	1.00	665	0.6250 R	-2.50	407	0.6805	-.42	045	0.8200	-.18	029	0.8450	-.75
552	0.6750	.76	108	0.5700 S	-4.13	229	0.6800	-.43	353	0.8000	-.36	559	0.8450	-.75
590	0.6600	.18				572	0.6800	-.43	309	0.7997	-.37	178	0.8450	-.75
Avg	0.6553		--	Method 032.05	--	011	0.6792	-.45	504	0.7950	-.42	242	0.8400	-.97
724	0.6450	-.43	629	0.8950 s	5.40	037	0.6790	-.50	511	0.7950	-.42	194	0.8350	-1.27
673	0.6450	-.43	405	0.7850	2.42	035	0.6750	-.58	588	0.6650	-1.89	229	0.8350	-1.27
692	0.6250	-1.15	366	0.7600	1.76	186	0.6705	-.71	358	0.6050	-2.57	106	0.8255	-1.78
028	0.6250	-1.27	038	0.7560	1.67	520	0.6850 R	-.74	298	0.5200 S	-3.54	686	0.8150	-2.34
			297	0.7400	1.20	208	0.6635	-.89	679	0.4100 s	-4.78	004	0.4105 s	-24.33
--	Method 032.01	--	560	0.7370	1.13	693	0.6725 R	-.94						
208	0.7355	1.60	345	0.7355	1.07	242	0.6600	-.97	--	Method 033.01	--	--	Method 033.03	--
278	0.7300	1.45	353	0.7200 R	1.04	096	0.6750 R	-1.11	345	1.0350 s	9.68	674	0.7650	1.25
619	0.7235	1.22	021	0.7270	.84	004	0.6510	-1.25	278	0.9300 s	3.93	726	0.7350	.80
650	0.7150	1.03	154	0.7257	.81	003	0.6450	-1.39	710	0.9250 s	3.67	190	0.7400	.51
307	0.6900	.68	148	0.7255	.80	185	0.6385	-1.56	610	0.8905	1.78	122	0.7300	.10
591	0.7050	.58	226	0.7250	.80	106	0.6300	-1.79	026	0.8850	1.51	Avg	0.7267	

* 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	0.7200	-.20	504	3.2595 s	11.44	591	0.2100	-2.14	011	0.2457	.12	590	0.1295 s	-8.23
598	0.6700	-1.73	016	1.1250 R	1.86				037	0.2435	.08			
265	0.5100 S	-6.60	309	0.9909	1.28	-- Method 035.01 --			Avg	0.2434		-- Method 035.99 --		
			560	0.8505	.70	686	0.2670	1.13	199	0.2424	-.06	588	0.1895 S	.00
-- Method 033.05 --			Avg	0.6818		138	0.2595	.41	148	0.2420	-.09	692	0.2500	.00
574	1.9000 S	149.87	154	0.6500	-.16	647	0.2600	.37	298	0.2400	-.18	Avg	0.2500	
171	0.8450	.71	047	0.5925	-.38	Avg	0.2562		083	0.2400	-.18			
Avg	0.8450		190	0.3250	-1.48	337	0.2550	-.50	726	0.2400	-.18	-- Method 036.00 --		
						563	0.2395	-1.64	358	0.2400	-.18	297	0.2400	.00
-- Method 033.99 --			-- Method 034.99 --						553	0.2355	-.41	307	0.3350 S	.00
552	0.9450	1.40	096	0.8500	1.18	-- Method 035.03 --			045	0.2345	-.48	Avg	0.2400	
673	0.9000	1.09	Avg	0.8400		035	362.50 s	8822.49	185	0.2305	-.67			
051	0.8500	.77	098	0.8300	-.33	265	0.3000	2.94	693	0.2310	-.70	-- Method 036.03 --		
716	0.8050	.46				051	0.2800 R	1.97	242	0.2300	-.70	154	0.3587 s	6.23
003	0.7550	.13	-- Method 035.00 --			202	0.2750	1.66	572	0.2300	-.70	169	0.2700	1.79
Avg	0.8029		263	0.3358 s	5.47	550	0.2710	1.45	353	0.2291	-.75	106	0.2580	1.20
121	0.6830	-.44	710	0.3250 s	4.82	413	0.2650	1.15	154	0.2389 R	-.75	202	0.2500	.80
619	0.6820	-.45	720	0.2800	2.09	187	0.2656	1.15	309	0.2216	-1.13	171	0.2480	.70
681	0.7000 R	-.76	307	0.2550 R	1.62	682	0.2600	.86	366	0.2200	-1.22	560	0.2460	.61
723	0.5420 S	-1.41	142	0.2650	1.22	208	0.2575	.74	110	0.2050	-2.01	187	0.2455	.60
588	0.5350 S	-1.46	175	0.2600	1.07	038	0.2560	.72	520	0.2050	-2.01	038	0.2435	.55
			354	0.2600	1.07	017	0.2550	.66	616	0.2010	-2.21	021	0.2428	.49
-- Method 034.01 --			656	0.2550	.65	548	0.2559	.65	629	0.2000	-2.26	345	0.2425	.43
038	0.8290	.71	233	0.2550	.65	598	0.2500 R	.62	405	0.1800 s	-3.30	357	0.2400	.30
			098	0.2550	.65	164	0.2500 R	.62	661	0.1345 s	-5.66	708	0.2340	.05
-- Method 034.03 --			619	0.2550	.61	186	0.2540	.55				Avg	0.2339	
512	0.7576	-.71	650	0.2500	.28	345	0.2530	.50	-- Method 035.05 --			294	0.2300	-.20
			529	0.2495	.25	144	0.2510	.42	106	0.3025 S	3.65	045	0.2300	-.20
-- Method 034.04 --			139	0.2480	.20	407	0.2515	.42	169	0.2750	1.79	186	0.2300	-.20
610	0.9590	1.80	Avg	0.2454		021	0.2507	.38	588	0.2680	1.27	693	0.2210	-.69
572	0.8235	.66	278	0.2450	-.30	089	0.2500	.34	171	0.2520	.19	366	0.2200	-.69
026	0.7900	.40	035	0.2400	-.33	297	0.2500	.34	294	0.2500	.04	265	0.2250 R	-.87
Avg	0.7555		038	0.2380	-.46	229	0.2500	.34	716	0.2500	.04	353	0.2050	-1.46
169	0.7500	-.10	205	0.2365	-.56	029	0.2489	.30	Avg	0.2494		110	0.2000	-1.69
164	0.6800	-.69	208	0.2360	-.57	510	0.2475	.28	731	0.2450	-.46	616	0.1885	-2.26
208	0.6760	-.70	363	0.2350	-.70	226	0.2450	.27	536	0.2394	-.71	550	0.1175 s	-5.79
171	0.6100	-1.29	152	0.2350	-.70	096	0.2450	.27	665	0.2350	-1.05			
			305	0.2250	-1.27	100	0.2450	.27	560	0.2305	-1.35			
			722	0.2207	-1.51	610	0.2450	.13	108	0.2050 S	-3.50			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 036.04	--	--	Method 037.01	--	--	Method 037.03	--	--	Method 038.00	--	--	Method 088.00	--
592	0.2785	1.26	674	236.00	-1.16	598	239.00	-1.73	011	1.4320	1.38	Avg	37.608	
Avg	0.2395		039	234.95	-1.16	520	236.00	-1.96	154	1.3850	.92	013	36.350	-.87
226	0.2250	-.50	710	230.50	-1.39	405	141.50 s	-9.40	038	1.3000	.48	027	34.050	-1.12
510	0.2150	-.81	035	230.00	-1.42				510	1.3000	.48	218	33.405	-1.28
--	Method 037.00	--	278	221.35	-1.89	--	Method 037.05	--	560	1.2500	.23			
646	217.38	.71	511	209.50	-2.51	357	300.50	2.43	Avg	1.2059		--	Method 088.01	--
						202	279.50	1.07	169	1.0600	-.75	027	35.500	.71
--	Method 037.01	--	--	Method 037.03	--	169	278.00	.99	106	0.9700	-1.20			
014	333.50 s	4.11	550	437.67 s	13.92	154	276.00	.98	021	0.9500	-1.50	--	Method 088.03	--
675	291.26	1.89	003	330.50 s	6.96	309	268.25	.95				003	40.500	.71
720	278.97	1.24	004	294.00	2.61	106	277.50	.87	--	Method 038.99	--	Avg	40.500	
337	278.00	1.15	265	285.00 R	2.00	021	275.20	.74	164	1.9000	.71	016	19.300 S	-4.28
208	276.00	1.04	011	278.20	1.37	047	265.80	.73						
612	274.00	.98	358	273.61	1.14	027	271.94	.61	--	Method 039.01	--	--	Method 101.01	--
504	269.50	.86	548	272.44	1.03	186	265.00	.47	591	1.8750	.83	208	980.50	.71
019	271.50	.85	148	273.50	.99	Avg	264.61		Avg	1.7625				
619	270.00	.72	029	272.95	.95	726	263.94	-.12	164	1.6500	-.90	--	Method 102.00	--
590	269.30	.70	185	271.50	.83	353	262.30	-.19				208	47.445	.71
038	266.00	.66	413	271.50	.83	199	261.95	-.19	--	Method 039.02	--			
013	268.50	.65	171	267.00	.57	345	260.65	-.27	021	2.5500	1.45	--	Method 104.00	--
716	267.25	.64	074	264.50	.45	045	259.50	-.38	154	2.0500	.18	208	5.7450	.71
722	268.16	.62	100	265.50	.41	560	259.50	-.42	Avg	2.0005				
175	268.00	.61	229	264.00	.29	366	257.50	-.65	560	1.7400	-.78	--	Method 106.00	--
669	258.05	.53	510	263.00	.16	572	253.00	-.88	011	1.6620	-.87	171	3.0000	.71
098	265.40	.52	Avg	260.91		294	251.93	-.88						
178	259.50	.43	164	259.50	-.12	028	260.50	-.95	--	Method 040.00	--	--	Method 106.02	--
563	262.65	.32	297	259.50	-.12	096	255.00	-1.20	560	4.3400	.71	616	6.1450	1.72
731	258.00	.28	208	259.00	-.17	693	246.50	-1.28				199	5.6150	1.07
305	258.85	.18	026	258.50	-.19	616	236.00	-1.95	--	Method 041.00	--	169	5.4750	.89
Avg	256.55		187	255.76	-.41	037	168.55 s	-6.51	021	1.2500	1.11	021	4.7734	.47
591	255.93	-.05	083	258.50	-.55	035	0.2400 s	-17.82	011	1.3175	.70	Avg	4.7455	
653	255.58	-.05	226	256.00	-.55				Avg	1.2225		563	4.6115	-.16
354	252.30	-.25	512	256.35	-.66	--	Method 037.99	--	154	1.1000	-.89	722	4.2250	-.64
350	250.25	-.34	144	252.50	-.67	190	259.30	1.06				560	4.1400	-.75
529	247.70	-.47	610	251.50	-.74	121	254.45	.61	--	Method 088.00	--	208	4.1500 R	-.99
588	245.00	-.62	553	251.00	-.78	Avg	253.35		004	41.000	1.30	619	3.9300	-1.01
689	237.90	-.99	242	249.50	-.92	692	253.20	-.58	043	40.950	.96	004	3.7950	-1.17
307	237.00	-1.15	407	247.00	-1.10	607	246.44	-1.29	036	39.000	.40	242	1.1950 s	-4.36
			629	245.00	-1.25				028	38.500	.29			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
-- Method 106.99 --			-- Method 121.00 --			-- Method 124.00 --			-- Method 127.00 --			-- Method 129.05 --		
003 0.0000 .00			619 0.9665 1.82			504 0.2600 -1.41			644 0.4190 .36			626 1.4550 -.71		
			675 0.9200 .48						504 0.4150 .28					
-- Method 108.02 --			571 0.9210 .43			-- Method 124.05 --			Avg 0.4081			-- Method 130.00 --		
560 10.200 1.29			652 0.9200 .36			610 0.3000 .00			350 0.4025 -.20			512 0.9994 1.48		
Avg 3.9348			644 0.9145 .25						038 0.3920 -.53			504 0.9750 .95		
675 0.8100 -.64			Avg 0.9086			-- Method 125.00 --			684 0.3800 -.97			619 0.9705 .86		
208 0.7945 -.64			504 0.9050 -.19			619 3.0800 2.12			675 0.3500 -1.91			208 0.9650 .80		
			350 0.8965 -.59			684 2.8800 .52						571 0.9450 .38		
-- Method 109.02 --			684 0.8750 -1.31			571 2.9250 .50			-- Method 127.05 --			171 0.9450 .36		
722 154.07 .92			038 0.8585 -1.57			644 2.9140 .43			626 0.4400 .00			350 0.9295 .17		
610 152.60 .88						350 2.8925 .16						Avg 0.9272		
675 147.31 .73			-- Method 121.05 --			Avg 2.8769			-- Method 128.00 --			644 0.9155 -.25		
619 137.50 .44			626 0.9400 .71			652 2.8350 -.46			504 0.5950 1.33			652 0.9150 -.26		
Avg 122.50						038 2.8105 -.71			619 0.5920 1.22			038 0.8810 -.91		
199 116.50 -.18			-- Method 122.00 --			504 2.8100 -.73			571 0.5705 .64			675 0.8550 -1.45		
560 87.050 -1.03			619 1.3250 1.86			675 2.7450 -1.42			644 0.5670 .54			684 0.8300 -1.92		
563 62.455 -1.75			652 1.2650 .69						Avg 0.5476			674 0.9150 R -2.86		
			644 1.2585 .60			-- Method 125.05 --			652 0.5450 -.15					
-- Method 109.99 --			571 1.2550 .49			626 3.0400 .71			684 0.5400 -.57			-- Method 130.05 --		
096 150.50 .71			Avg 1.2305						350 0.5185 -.79			029 1.0650 1.16		
			038 1.2290 -.16			-- Method 126.00 --			038 0.5150 -.87			723 1.0600 .88		
-- Method 120.00 --			350 1.2070 -.54			619 0.7090 1.51			675 0.4850 -1.68			Avg 0.9902		
619 0.9595 1.64			675 1.2000 -.72			675 0.7000 1.20						626 0.9450 -.60		
684 0.9250 .66			504 1.1700 -1.21			504 0.6750 .66			-- Method 128.05 --			610 0.9200 -.89		
350 0.9305 .58			684 1.1650 -1.29			652 0.6850 .50			626 0.6050 .71			027 0.9610 -1.10		
571 0.9270 .49						571 0.6850 .47								
504 0.9250 .42			-- Method 122.05 --			Avg 0.6749			-- Method 129.00 --			-- Method 130.99 --		
Avg 0.9144			626 1.3550 .71			350 0.6625 -.55			619 1.5050 1.37			038 0.8585 .71		
652 0.9100 -.39						644 0.6570 -.80			504 1.4700 .83					
038 0.9015 -.47			-- Method 124.00 --			038 0.6555 -.86			571 1.4600 .68			-- Method 131.00 --		
644 0.8865 -1.03			684 0.3350 1.72			684 0.6450 -1.48			684 1.4200 R .47			644 0.3025 1.91		
675 0.8650 -1.79			038 0.3235 R 1.45						644 1.4220 .17			684 0.3000 R 1.85		
			652 0.3100 .79			-- Method 126.05 --			Avg 1.4182			571 0.2775 .47		
-- Method 120.05 --			675 0.3050 .51			626 0.7150 .71			652 1.4100 -.13			350 0.2775 .46		
626 0.9400 .71			350 0.2995 .24						038 1.3980 -.32			652 0.2750 .43		
			571 0.2960 .15			-- Method 127.00 --			350 1.3905 -.44			Avg 0.2696		
			Avg 0.2939			652 0.4550 1.53			675 1.2900 -2.03			619 0.2680 -.09		
			619 0.2750 -.80			619 0.4335 .84						675 0.2550 -.89		
			644 0.2705 -.97			571 0.4255 .59						038 0.2510 -1.09		

* 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 131.00	--	--	Method 134.00	--	--	Method 136.99	--						
504	0.2500	-1.13	619	0.7815	1.67	504	0.1650	.71						
			571	0.7600	1.08									
--	Method 131.05	--	038	0.7350	.42	--	Method 137.00	--						
610	0.2700	.63	652	0.7250	.20	350	0.5505	1.01						
Avg	0.2550		675	0.7250	.20	684	0.5400	.95						
626	0.2400	-1.05	Avg	0.7193		504	0.5250	.20						
			350	0.7060	-.38	Avg	0.5226							
--	Method 132.00	--	644	0.7015	-.48	644	0.5175	-.27						
619	0.8305	1.80	684	0.6900	-.77	675	0.4800	-1.57						
350	0.7945	1.12	504	0.6500	-1.83									
504	0.7450	.22				--	Method 137.05	--						
652	0.7400	.21	--	Method 134.05	--	626	0.4000 S	.00						
571	0.7410	.13	626	0.7450	.71									
Avg	0.7345					--	Method 138.00	--						
644	0.7255	-.21	--	Method 135.00	--	504	0.7450	1.13						
684	0.7000	-.67	571	0.5830	.95	350	0.7390	.68						
038	0.6840	-.95	619	0.5815	.94	644	0.7345	.57						
675	0.6500	-1.58	644	0.5805	.86	571	0.7345	.55						
			350	0.5775	.65	619	0.7275	.50						
--	Method 132.05	--	652	0.5750	.58	Avg	0.7156							
626	0.7400	.71	Avg	0.5651		684	0.7150	-.73						
			684	0.5650	-.26	652	0.7150	-.73						
--	Method 133.00	--	504	0.5450	-1.08	038	0.6695	-1.36						
038	1.2955 s	3.35	675	0.5400	-1.41	675	0.6600	-1.72						
619	1.2850	2.09	038	0.5380	-1.41									
644	1.1375	.34				--	Method 138.05	--						
Avg	1.1089		--	Method 135.05	--	626	0.7700	.71						
571	1.0900	-.25	626	0.5850	.65									
652	1.1050	-.30	Avg	0.5750		--	Method 139.00	--						
684	1.0700	-.52	610	0.5650	-1.04	504	0.0000	.00						
504	1.0550	-.67												
675	1.0200	-1.06	--	Method 136.00	--	--	Method 300.01	--						
			684	0.1900	.00	651	0.1500	-.71						
--	Method 133.05	--												
626	1.2600	.71	--	Method 136.01	--									
			619	0.1735	1.50									
			Avg	0.1727										
			571	0.1725	-.30									
			644	0.1720	-.38									

* 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	13	0.1812	1.46	0.16	009.04	2	0.0000	0.62	0.75
001.03	4	0.0000	1.02	0.32	009.07	11	0.0690	0.99	0.23
001.07	39	-0.0412	1.34	0.27	009.09	18	0.1170	1.09	0.20
001.08	2	0.0000	1.08	0.41	009.99	3	4.8241	8.40	0.20
001.99	15	0.0000	1.01	0.14	010.03	3	-0.4690	1.18	0.14
002.00	5	-1.0965	2.56	1.74	010.11	8	-0.7552	2.34	0.07
002.01	13	-1.1508	3.06	2.72	010.99	14	0.0583	0.97	0.40
002.02	9	-0.0674	0.98	0.22	011.01	83	-0.0359	1.04	0.20
002.03	3	4.0010	3.94	2.96	011.99	2	0.0000	1.22	0.10
002.04	6	0.5791	1.70	0.12	012.00	8	0.0000	1.02	0.17
002.05	16	0.0087	0.97	0.06	012.01	3	-3.1051	5.43	4.89
002.06	131	0.0523	1.04	0.40	012.03	3	0.0000	1.10	0.17
002.08	4	0.0000	1.05	0.22	012.04	4	0.0000	1.08	0.07
002.10	8	-0.0299	4.10	2.87	012.11	4	0.0000	1.08	0.08
002.11	11	-0.6938	1.95	0.25	013.02	32	-0.2160	1.49	0.24
002.99	8	-0.5242	1.75	0.38	013.10	17	0.0449	0.98	0.27
003.00	32	-0.5446	4.71	0.32	015.00	11	0.0000	1.00	0.22
003.06	27	-0.0706	2.69	0.90	017.00	8	1.0866	3.20	0.34
003.09	26	-0.7533	2.82	0.40	018.02	2	0.0000	0.13	0.86
003.10	30	-0.8389	2.84	0.41	019.00	14	0.3223	1.30	0.52
003.11	11	0.4141	1.70	0.08	019.01	53	-0.3843	1.51	0.56
003.12	3	-4.1572	7.25	0.22	019.03	6	0.0000	1.04	0.11
003.13	4	-3.5050	7.06	0.44	019.05	40	-0.3015	2.94	0.45
003.14	12	-0.4877	1.46	0.25	019.08	7	0.5959	1.74	0.37
003.99	9	-0.3906	2.70	0.35	019.09	27	0.0328	0.99	0.24
004.00	29	0.0444	1.36	0.51	019.99	6	0.0000	0.99	0.32
004.01	2	0.0000	1.15	0.29	020.00	3	-18.2407	31.60	0.19
004.03	3	0.0000	1.04	0.33	020.01	7	0.0846	0.86	0.76
004.06	29	-0.0968	1.40	0.40	021.01	2	0.0000	0.00	0.00
004.07	37	0.0956	1.15	0.34	021.02	9	-0.0580	0.98	0.13
004.11	10	0.2327	1.15	0.12	022.01	30	-0.0984	1.30	0.27
004.99	3	0.0000	1.12	0.05	022.03	32	0.0000	0.98	0.22
005.00	136	0.1708	3.06	0.38	022.05	26	0.0047	0.98	0.18
005.03	2	-0.9596	1.36	0.66	022.99	4	0.0000	1.01	0.32
005.11	8	0.0000	1.02	0.18	025.01	26	0.1604	1.19	0.25
005.99	13	0.1683	1.56	0.20	025.03	31	0.0695	1.02	0.42
008.02	15	0.4922	2.19	0.18	025.05	23	-0.3345	2.21	0.21
008.08	23	0.1604	1.23	0.25	025.99	4	0.0000	0.96	0.42
008.99	4	0.3521	1.15	0.45	027.01	26	0.4769	1.57	0.29

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	33	-0.0353	0.93	0.24	041.00	3	0.0000	0.81	0.63
027.05	23	-0.1439	1.19	0.36	088.00	7	0.0000	0.89	0.50
027.99	2	0.0000	1.18	0.23	088.03	2	-2.1415	3.03	0.50
028.01	22	0.2803	1.81	0.20	106.02	11	-0.4622	1.59	0.26
028.03	31	0.1584	1.31	0.23	108.02	3	0.0000	1.11	0.10
028.05	22	-0.1351	1.25	0.41	109.02	7	0.0000	1.04	0.03
028.99	3	0.0000	0.98	0.45	120.00	9	0.0000	0.99	0.26
031.01	60	-0.2649	3.95	2.60	121.00	9	0.0000	0.97	0.34
031.02	4	-10.0448	20.10	0.52	122.00	9	0.0000	1.01	0.21
031.03	9	0.2007	1.13	0.22	124.00	9	0.1370	1.03	0.31
031.05	64	-0.2160	2.16	0.32	125.00	9	0.0000	1.00	0.25
031.06	3	0.0000	0.51	0.81	126.00	9	0.0000	0.96	0.36
031.99	8	0.0000	0.91	0.47	127.00	9	0.0000	1.01	0.19
032.01	18	0.0000	0.97	0.28	128.00	9	0.0000	0.99	0.27
032.02	9	-0.7180	1.73	0.37	129.00	9	0.0032	0.96	0.19
032.05	54	-0.0245	1.33	0.39	130.00	13	-0.0184	0.96	0.81
033.00	22	-0.3091	1.57	0.17	130.05	5	0.0000	0.85	0.57
033.01	36	-0.1940	4.60	0.35	131.00	9	0.1953	1.12	0.25
033.03	7	-0.9424	2.64	0.35	131.05	2	0.0000	0.89	0.59
033.05	2	74.5998	105.50	10.01	132.00	9	0.0000	1.02	0.15
033.99	10	-0.0308	0.97	0.24	133.00	8	0.2772	1.23	0.90
034.04	7	0.0000	1.02	0.17	134.00	9	0.0000	1.01	0.19
034.05	7	1.7920	4.08	1.53	135.00	9	0.0000	0.98	0.29
034.99	2	0.0000	0.33	0.83	135.05	2	0.0000	0.82	0.65
035.00	24	0.4525	1.71	0.41	136.01	3	0.0000	0.44	0.84
035.01	5	0.0000	1.01	0.30	137.00	5	0.0000	0.97	0.38
035.03	52	361.8408	2610.21	10.81	138.00	9	0.0000	0.89	0.49
035.05	12	-0.6367	2.91	0.54					
035.99	2	0.0000	0.00	0.00					
036.00	2	0.0000	0.00	0.00					
036.03	22	-0.0015	2.07	0.24					
036.04	3	0.0000	1.10	0.14					
037.01	35	0.1171	1.18	0.25					
037.03	33	0.3603	3.25	0.79					
037.05	25	-0.9719	3.84	0.47					
037.99	4	0.0000	0.94	0.47					
038.00	8	0.0000	0.95	0.39					
039.01	2	0.0000	1.17	0.26					
039.02	4	0.0000	1.03	0.29					