

Feed Check Sample No. - 200832 Cattle Transition Mineral, Medicated
 Association of American Feed Control Officials

- Pass 1 Results for 166 Labs - - Pass 2 Results for 166 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	0.47000	0.12728	0.18000	1	0.47000	0.12728	0.18000
Loss on Drying, Vac 95 deg 5 hr	934.01	001.00	6	7.96322	0.82525	0.16163	7	8.24633	1.04633	0.15711
Loss on Drying, ISO 6496		001.03	3	7.71167	0.39230	0.07667	3	7.71167	0.39230	0.07667
Loss on Drying, LECO		001.05	1	7.39000	0.01414	0.02000	1	7.39000	0.01414	0.02000
Loss on Drying, 104 deg 3 hr, in malt .	935.29	001.07	24	7.95708	0.52430	0.16083	23	7.93348	0.50739	0.11565
Loss on Drying, Misc		001.99	8	7.99888	0.80956	0.12775	8	7.99888	0.80956	0.12775
Method Group 001.XX PCT			42	7.93489	0.62095	0.14528	41	7.92110	0.61493	0.11956
Protein, Crude	954.01	002.00	2	16.5675	0.45995	0.04500	2	16.5675	0.45995	0.04500
Protein, Auto Kjel-Foss	976.05	002.01	5	16.2330	0.34309	0.17000	5	16.2330	0.34309	0.17000
Protein, Semiauto Autoanalyzer	976.06	002.02	2	16.3375	0.25038	0.18500	2	16.3375	0.25038	0.18500
Protein, Copper Cat	984.13	002.04	2	16.4725	0.44500	0.15500	2	16.4725	0.44500	0.15500
Protein, Copper, Boric Acid		002.05	10	16.5626	0.42479	0.19084	9	16.5607	0.42292	0.11427
Protein, Combustion Nitrogen Analyzer	990.03	002.06	46	16.6206	0.42662	0.16035	45	16.6096	0.40642	0.12724
Protein, Cu/Ti	988.05	002.08	4	16.1848	0.57357	0.08250	4	16.1848	0.57357	0.08250
Protein, Block dig/distillation		002.10	2	16.4450	0.54046	0.71000	2	16.4450	0.54046	0.71000
Protein, Misc		002.99	4	16.8664	0.31574	0.09785	4	16.8664	0.31574	0.09785
Method Group 002.XX PCT			77	16.5609	0.44215	0.16943	75	16.5532	0.42991	0.14021
Fat, Eth Ext, Direct	920.39	003.00	10	7.15332	0.54693	0.23041	10	7.15332	0.54693	0.23041
Fat, Pet Ether		003.06	12	6.82125	0.41799	0.09917	12	6.82125	0.41799	0.09917
Fat, Soxtec, Eth Ext		003.09	8	7.17293	0.54089	0.05515	8	7.17293	0.54089	0.05515
Fat, Soxtec, Pet Ether		003.10	13	6.36531	0.63107	0.12969	12	6.45450	0.56583	0.10133
Fat, NIR		003.11	2	7.67000	0.94773	0.05000	2	7.67000	0.94773	0.05000
Fat, Hexane Ext.		003.12	2	6.80750	0.28265	0.17500	2	6.80750	0.28265	0.17500
Fat, Soxtec, Hexane Ext.		003.13	2	6.16225	0.19848	0.17150	2	6.16225	0.19848	0.17150
Fat, Ankom		003.14	6	5.82917	0.72311	0.31833	8	5.49625	0.86314	0.29750
Fat, Misc		003.99	2	6.95500	0.06856	0.05000	2	6.95500	0.06856	0.05000
Method Group 003.XX PCT			57	6.73132	0.71664	0.14779	56	6.75697	0.69570	0.14204
Fiber, Crude Asbestos Free	962.09	004.00	11	3.71920	0.43453	0.14735	10	3.64812	0.37246	0.09609
Fiber, Sing Filt		004.01	1	4.37500	0.02121	0.03000	1	4.37500	0.02121	0.03000
Fiber, Fritted Glass	978.10	004.03	1	3.98500	0.06364	0.09000	1	3.98500	0.06364	0.09000
Fiber, Fibertec		004.06	12	3.67570	0.33758	0.09095	10	3.58934	0.26832	0.04814
Fiber, ANKOM		004.07	14	3.98786	0.82758	0.23429	13	4.02077	0.83992	0.17846
Fiber, NIR		004.11	2	5.92500	0.08660	0.00000	2	5.92500	0.08660	0.00000
Method Group 004.XX PCT			41	3.92828	0.73745	0.14908	37	3.91499	0.75939	0.10493
Ash,	942.05	005.00	70	32.2069	0.49787	0.16310	62	32.2479	0.35030	0.11656
Ash, NIR		005.11	1	32.5500	0.12728	0.18000	1	32.5500	0.12728	0.18000
Ash, Misc		005.99	11	31.9546	1.04980	0.23266	9	32.0028	1.13610	0.07444
Method Group 005.XX PCT			82	32.1772	0.60218	0.17264	72	32.2214	0.51695	0.11218
Fiber, Acid Detergent	973.18	008.02	5	4.72100	1.48815	0.23000	5	4.72100	1.48815	0.23000

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Fiber, Acid Detergent-Hach		008.05	1	7.55000	0.35355	0.50000	1	7.55000	0.35355	0.50000
Fiber, Acid Detergent by ANKOM		008.08	7	4.99000	0.70878	0.15429	7	4.99000	0.70878	0.15429
Fiber, Acid Detergent Misc		008.99	3	6.33333	0.54603	0.51333	3	6.33333	0.54603	0.51333
Method Group 008.XX PCT			16	5.31781	1.26104	0.26687	16	5.31781	1.26104	0.26687
Fiber, Neutral Det-ENZ Pretreat		009.07	4	13.7800	1.52619	0.38000	4	13.7800	1.52619	0.38000
Fiber, Neutral Detergent by ANKOM		009.09	7	12.7236	1.38583	0.32714	6	12.5692	1.41804	0.16500
Fiber, Neutral Det Misc		009.99	2	13.5525	0.87389	0.44500	2	13.5525	0.87389	0.44500
Method Group 009.XX PCT			13	13.1762	1.41300	0.36154	12	13.1367	1.45337	0.28333
Moisture, Karl-Fischer	966.20	010.03	1	6.51000	0.26870	0.38000	1	6.51000	0.26870	0.38000
Moisture, NIR		010.11	2	8.56500	0.72062	0.15000	2	8.56500	0.72062	0.15000
Moisture, Misc		010.99	10	8.29800	0.93158	0.09400	10	8.29800	0.93158	0.09400
Method Group 010.XX PCT			13	8.20154	0.99108	0.12462	13	8.20154	0.99108	0.12462
Loss on Drying, 135 deg 2 hr	930.15	011.01	45	10.1856	0.85058	0.22245	40	10.0935	0.80087	0.13376
Loss on Drying, High Temp Methods, Misc		011.99	2	9.36000	0.57914	0.17000	2	9.36000	0.57914	0.17000
Method Group 011.XX PCT			47	10.1505	0.85514	0.22022	42	10.0586	0.80455	0.13548
Starch, Polarimetric (Ewers)		012.00	4	7.08750	0.87372	0.55000	4	7.08750	0.87372	0.55000
Starch, Megazyme		012.01	1	8.44500	0.27577	0.39000	1	8.44500	0.27577	0.39000
Starch, Enzymatic		012.03	1	7.01500	0.07778	0.11000	1	7.01500	0.07778	0.11000
Starch, YSI Analyzer		012.04	1	7.17000	0.02828	0.04000	1	7.17000	0.02828	0.04000
Starch, NIR		012.11	1	9.90000	0.14142	0.20000	1	9.90000	0.14142	0.20000
Method Group 012.XX PCT			8	7.61000	1.17214	0.36750	8	7.61000	1.17214	0.36750
Fat, Mojonnier, Bak Ext	954.02	013.02	13	7.45050	0.60788	0.19685	12	7.54471	0.51899	0.15158
Fat, Soxtec-Acid Hydrolysis		013.10	9	7.50111	0.78725	0.17111	8	7.50750	0.82159	0.08000
Fat, Super Critical Fluid Extraction ..		013.11	1	8.66000	0.67882	0.96000	1	8.66000	0.67882	0.96000
Fat, Pretreat or extended ext, misc ...		013.99	1	8.10285	0.06060	0.08570	1	8.10285	0.06060	0.08570
Method Group 013.XX PCT			24	7.54706	0.70882	0.21436	22	7.60724	0.67764	0.15930
Aluminum, ICP		015.00	11	586.479	79.2690	26.0945	11	586.479	79.2690	26.0945
Method Group 015.XX PPM			11	586.479	79.2690	26.0945	11	586.479	79.2690	26.0945
Arsenic, AA, Hydride		016.00	1	0.25950	0.00354	0.00500	1	0.25950	0.00354	0.00500
Arsenic, ICP		016.02	2	0.73413	0.60401	0.16175	2	0.73413	0.60401	0.16175
Method Group 016.XX PPM			3	0.57592	0.52818	0.10950	3	0.57592	0.52818	0.10950
Boron, ICP		017.00	8	16.1938	1.35853	0.36500	7	15.8714	1.08143	0.23143
Boron, Misc		017.99	1	13.5150	0.26163	0.37000	1	13.5150	0.26163	0.37000
Method Group 017.XX PPM			9	15.8961	1.54367	0.36556	8	15.5769	1.29071	0.24875
Cadmium, ICP		018.02	5	0.56101	0.13381	0.10383	5	0.56101	0.13381	0.10383
Method Group 018.XX PPM			5	0.56101	0.13381	0.10383	5	0.56101	0.13381	0.10383
Calcium, Ox-Mn04 Vol	927.02	019.00	10	6.43503	0.17322	0.05112	9	6.43196	0.17987	0.03547
Calcium, At Abs Spect	968.08	019.01	43	6.42464	0.23571	0.10164	39	6.40871	0.21616	0.07002
Calcium, Semiauto (Autoanalyzer)		019.03	5	6.61248	0.58540	0.12532	5	6.61248	0.58540	0.12532

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Calcium, ICP, Dry Ash.....		019.05	38	6.36806	0.41674	0.14933	35	6.39303	0.40978	0.10901
Calcium, EDTA		019.08	5	6.52200	0.46771	0.24000	5	6.52200	0.46771	0.24000
Calcium, ICP, Wet Ash		019.09	25	6.51234	0.35419	0.15065	24	6.51384	0.33673	0.10372
Calcium, Misc		019.99	7	6.86471	0.64698	0.22029	7	6.86471	0.64698	0.22029
Method Group 019.XX PCT			133	6.45963	0.38078	0.13301	124	6.46484	0.37529	0.10260
Chromium, AA.....		020.00	3	17.9900	2.58905	2.00667	3	17.9900	2.58905	2.00667
Chromium, ICP		020.01	8	15.5811	2.19249	1.07088	8	15.5811	2.19249	1.07088
Chromium, Misc		020.99	2	14.4625	0.70901	0.08500	2	14.4625	0.70901	0.08500
Method Group 020.XX PPM			13	15.9649	2.39267	1.13515	13	15.9649	2.39267	1.13515
Cobalt, AA	968.08	021.01	4	9.49841	4.06647	0.39358	4	9.49841	4.06647	0.39358
Cobalt, ICP		021.02	13	10.5643	0.97627	0.76019	13	10.5643	0.97627	0.76019
Cobalt, Misc		021.99	5	12.5795	2.36210	1.42944	4	12.0993	2.01758	0.53680
Method Group 021.XX PPM			22	10.8285	2.34483	0.84564	21	10.6537	2.18464	0.64781
Copper, AA	968.08	022.01	36	759.603	34.0193	13.5541	33	758.300	32.7704	9.81659
Copper, ICP, Dry Ash	968.08	022.03	29	746.321	42.8578	21.6140	28	746.261	41.7162	17.6002
Copper, ICP, Wet Ash	968.08	022.05	25	751.854	47.4304	20.2780	25	751.854	47.4304	20.2780
Copper, Misc		022.99	8	739.388	45.6981	29.3154	7	735.922	42.8937	17.7747
Method Group 022.XX PPM			98	752.045	41.5718	18.9411	93	751.258	40.7795	15.5713
Iodine, Elm-Cald	935.14	024.01	1	22.7000	4.38406	6.20000	1	22.7000	4.38406	6.20000
Iron, AA	968.08	025.01	18	1526.65	188.710	34.7461	18	1526.65	188.710	34.7461
Iron, ICP, Dry Ash	968.08	025.03	27	1398.67	154.002	57.4524	25	1400.79	154.233	43.7270
Iron, ICP, Wet Ash	968.08	025.05	21	1377.67	183.676	70.4805	20	1386.35	182.013	62.2045
Iron, Misc		025.99	2	1419.25	184.339	114.500	2	1419.25	184.339	114.500
Method Group 025.XX PPM			68	1426.67	182.408	57.1431	65	1431.77	181.749	49.1030
Lead,		026.00	1	0.57450	0.00636	0.00900	1	0.57450	0.00636	0.00900
Lead, Misc		026.99	3	0.28008	0.27494	0.03250	3	0.28008	0.27494	0.03250
Method Group 026.XX PPM			4	0.35369	0.26940	0.02663	4	0.35369	0.26940	0.02663
Magnesium, AA	968.08	027.01	41	0.66119	0.04245	0.01648	40	0.66284	0.04126	0.01514
Magnesium, ICP, Dry Ash	968.08	027.03	28	0.64444	0.04911	0.01573	27	0.64640	0.04863	0.01428
Magnesium, ICP, Wet Ash	968.08	027.05	24	0.65585	0.05557	0.03305	23	0.65555	0.05359	0.02675
Magnesium, Misc		027.99	6	0.62775	0.05386	0.04983	6	0.62775	0.05386	0.04983
Method Group 027.XX PCT			99	0.65313	0.04901	0.02231	96	0.65428	0.04793	0.01985
Manganese, AA	968.08	028.01	34	2267.16	129.428	43.5079	33	2264.70	126.531	33.6445
Manganese, ICP, Dry Ash	968.08	028.03	27	2226.83	159.020	67.3784	26	2234.49	154.235	58.4814
Manganese, ICP, Wet Ash	968.08	028.05	24	2296.37	181.751	61.2375	22	2310.29	134.162	51.5773
Manganese, Misc		028.99	7	2240.57	153.985	77.2971	7	2240.57	153.985	77.2971
Method Group 028.XX PPM			92	2260.92	156.025	57.7094	88	2265.25	141.080	48.9382
Mercury,		029.00	1	0.00300	0.00141	0.00200	1	0.00300	0.00141	0.00200
Phosphorus, Vol	964.06	031.00	1	1.79470	0.00863	0.01220	1	1.79470	0.00863	0.01220

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Phosphorus, Photometric	965.17	031.01	42	1.81706	0.11336	0.03201	39	1.81376	0.10255	0.02678
Phosphorus, GQMP (2.028)	964.06	031.02	5	1.74617	0.12893	0.01942	5	1.74617	0.12893	0.01942
Phosphorus, Autoanalyzer		031.03	7	1.81000	0.08048	0.07143	7	1.81000	0.08048	0.07143
Phosphorus, ICP		031.05	60	1.79592	0.10555	0.03707	57	1.79426	0.10448	0.03097
Phosphorus, Hach Method		031.06	1	1.78000	0.04243	0.06000	1	1.78000	0.04243	0.06000
Phosphorus, Misc		031.99	8	1.81938	0.10491	0.04875	8	1.81938	0.10491	0.04875
Method Group 031.XX PCT			124	1.80325	0.10750	0.03733	118	1.80119	0.10313	0.03279
Potassium, AA	975.03	032.01	32	3.86720	0.26151	0.08963	30	3.86880	0.26490	0.07384
Potassium, Flame Emission	956.01	032.02	9	3.92078	0.11615	0.06733	9	3.92078	0.11615	0.06733
Potassium, STPB		032.03	1	3.97000	0.08485	0.12000	1	3.97000	0.08485	0.12000
Potassium, Em Spect	953.01	032.04	1	3.90000	0.18385	0.26000	1	3.90000	0.18385	0.26000
Potassium, ICP		032.05	56	3.92260	0.23713	0.10775	53	3.92655	0.24468	0.07598
Potassium, Misc		032.99	3	3.91833	0.13761	0.08333	3	3.91833	0.13761	0.08333
Method Group 032.XX PCT			102	3.90518	0.23336	0.09940	96	3.90071	0.22791	0.07779
Salt, Sol Cl	943.01	033.00	20	9.84102	0.37192	0.09125	18	9.82725	0.38171	0.06806
Salt, Poten Cl	969.10	033.01	25	9.99575	0.20853	0.11695	23	10.0030	0.19385	0.08495
Salt, Quantab		033.03	3	10.5783	1.88098	0.13667	3	10.5783	1.88098	0.13667
Salt, Ion Sel Electrode		033.05	1	10.4000	0.14142	0.20000	1	10.4000	0.14142	0.20000
Salt, Misc		033.99	5	9.90300	0.32380	0.05000	5	9.90300	0.32380	0.05000
Method Group 033.XX PCT			54	9.96971	0.52519	0.10387	50	9.97218	0.53995	0.08078
Selenium, Fluor	969.06	034.01	1	15.7500	0.49497	0.70000	1	15.7500	0.49497	0.70000
Selenium, AA, Hydride		034.04	7	15.6479	1.66024	0.27286	6	15.2892	1.49319	0.15167
Selenium, ICP		034.05	4	16.9200	2.34133	0.53000	4	16.9200	2.34133	0.53000
Selenium, AA, Furnace		034.06	1	15.0500	0.49497	0.70000	1	15.0500	0.49497	0.70000
Selenium, Misc		034.99	4	15.5848	2.27403	0.94850	4	15.5848	2.27403	0.94850
Method Group 034.XX PPM			17	15.9032	1.92584	0.54259	16	15.7846	1.91973	0.51400
Sodium, AA		035.00	26	1.99904	0.13690	0.04613	25	1.99900	0.13820	0.03998
Sodium, Ion Sel Electrode		035.01	3	1.98417	0.06606	0.10167	3	1.98417	0.06606	0.10167
Sodium, ICP		035.03	51	1.96668	0.15458	0.04306	49	1.97061	0.15467	0.03788
Sodium, Flame Emission	956.01	035.05	10	2.05345	0.21482	0.02390	10	2.05345	0.21482	0.02390
Sodium, Misc		035.99	6	2.05917	0.12340	0.05500	6	2.05917	0.12340	0.05500
Method Group 035.XX PCT			96	1.99081	0.15574	0.04448	93	1.99330	0.15595	0.04011
Sulfur, (Gravimetric)		036.00	1	0.54500	0.00707	0.01000	1	0.54500	0.00707	0.01000
Sulfur, ICP		036.03	23	0.65351	0.07415	0.01546	20	0.65917	0.07619	0.00945
Sulfur, LECO		036.04	1	0.56500	0.00707	0.01000	1	0.56500	0.00707	0.01000
Method Group 036.XX PCT			25	0.64563	0.07608	0.01502	22	0.64970	0.07870	0.00950
Zinc, Dithizone	941.03	037.00	1	2495.60	97.6246	138.062	1	2495.60	97.6246	138.062
Zinc, AA	968.08	037.01	35	2659.69	159.685	65.1618	34	2654.09	156.448	58.2548
Zinc, ICP, Dry Ash	968.08	037.03	26	2618.44	172.981	68.7842	25	2614.12	169.356	53.9756

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Zinc, ICP, Wet Ash	968.08	037.05	25	2609.62	239.654	74.9732	25	2609.62	239.654	74.9732
Zinc, Misc		037.99	6	2410.70	287.200	84.8750	6	2410.70	287.200	84.8750
Method Group 037.XX PPM			93	2616.87	203.845	70.8677	91	2613.11	202.342	64.3043
Molybdenum, ICP		038.00	11	4.58766	1.01324	0.30442	10	4.49643	1.00600	0.23486
Molybdenum, Misc		038.99	1	4.90000	0.14142	0.20000	1	4.90000	0.14142	0.20000
Method Group 038.XX PPM			12	4.61369	0.97264	0.29572	11	4.53312	0.96473	0.23169
Nickel, AA		039.01	1	7.35000	0.21213	0.30000	1	7.35000	0.21213	0.30000
Nickel, ICP		039.02	6	8.67168	2.38606	0.91402	6	8.67168	2.38606	0.91402
Method Group 039.XX PPM			7	8.48286	2.24749	0.82630	7	8.48286	2.24749	0.82630
Barium, ICP		040.00	1	8.25000	1.59806	2.26000	1	8.25000	1.59806	2.26000
Vanadium, ICP		041.00	3	7.21483	2.14861	0.38900	3	7.21483	2.14861	0.38900
Vanadium, Misc		041.99	1	31.3850	0.77075	1.09000	1	31.3850	0.77075	1.09000
Method Group 041.XX PPM			4	13.2574	11.3388	0.56425	4	13.2574	11.3388	0.56425
Chlorotetracycline, Turb	977.37	051.01	1	475.000	5.65685	8.00000	1	475.000	5.65685	8.00000
Decoquinatate, HPLC		054.01	8	226.825	8.21519	3.81000	8	226.825	8.21519	3.81000
Method Group 054.XX MG/LB			8	226.825	8.21519	3.81000	8	226.825	8.21519	3.81000
Monensin, HPLC	997.04	065.03	1	2.92750	0.21850	0.30900	1	2.92750	0.21850	0.30900
Niacin, Chem	961.14	102.00	1	350.715	2.24153	3.17000	1	350.715	2.24153	3.17000
Riboflavin, HPLC		104.03	1	3.81580	0.19771	0.27960	1	3.81580	0.19771	0.27960
Thiamine, HPLC		105.00	1	127.100	23.7588	33.6000	1	127.100	23.7588	33.6000
Thiamine,	942.23	105.01	2	162.018	2.96072	3.13500	2	162.018	2.96072	3.13500
Method Group 105.XX MG/LB			3	150.378	21.0543	13.2900	3	150.378	21.0543	13.2900
Vitamin A, Color	974.29	106.00	1	74.6000	3.25269	4.60000	1	74.6000	3.25269	4.60000
Vitamin A, HPLC		106.02	20	82.1623	18.0840	7.62350	19	82.1297	18.3379	6.71211
Vitamin A, Misc		106.99	1	55.7910	0.07495	0.10600	1	55.7910	0.07495	0.10600
Method Group 106.XX KU/LB			22	80.6198	18.1501	7.14436	21	80.5170	18.3759	6.29695
Vitamin D3, HPLC	982.29	108.01	1	8.34000	0.00000	0.00000	1	8.34000	0.00000	0.00000
Vitamin D3, HPLC		108.02	2	9.46250	4.18923	1.07500	2	9.46250	4.18923	1.07500
Method Group 108.XX KU/LB			3	9.08833	3.29633	0.71667	3	9.08833	3.29633	0.71667
Vitamin E, HPLC		109.02	9	1673.57	85.2608	54.4846	9	1673.57	85.2608	54.4846
Vitamin E, Misc		109.99	1	1685.00	147.078	208.000	1	1685.00	147.078	208.000
Method Group 109.XX MG/KG			10	1674.71	87.4935	69.8361	10	1674.71	87.4935	69.8361
Biotin, Microbiological		114.01	2	4.31500	0.11091	0.17000	2	4.31500	0.11091	0.17000
Method Group 114.XX MG/KG			2	4.31500	0.11091	0.17000	2	4.31500	0.11091	0.17000
Alanine, Post-col Ninhydrin Der	994.12	120.00	4	1.06553	0.18352	0.02305	4	1.06553	0.18352	0.02305
Method Group 120.XX PCT			4	1.06553	0.18352	0.02305	4	1.06553	0.18352	0.02305
Arginine, Post-col Ninhydrin Der	994.12	121.00	4	0.82044	0.03762	0.01517	4	0.82044	0.03762	0.01517
Method Group 121.XX PCT			4	0.82044	0.03762	0.01517	4	0.82044	0.03762	0.01517
Aspartic, Post-col Ninhydrin Der	994.12	122.00	4	1.61558	0.60486	0.03945	4	1.61558	0.60486	0.03945

- Pass 1 Results for 166 Labs - - Pass 2 Results for 166 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 122.XX PCT			4	1.61558	0.60486	0.03945	4	1.61558	0.60486	0.03945
Cysteine/Cystine, PAO Post-col Ninhydri	994.12	124.00	3	0.28395	0.06435	0.00490	3	0.28395	0.06435	0.00490
Cysteine/Cystine, PAO Post-col OPA Der		124.02	1	0.27400	0.00000	0.00000	1	0.27400	0.00000	0.00000
Method Group 124.XX PCT			4	0.28146	0.05458	0.00368	4	0.28146	0.05458	0.00368
Glutamic, Post-col Ninhydrin Der	994.12	125.00	4	2.07595	0.87093	0.02610	4	2.07595	0.87093	0.02610
Method Group 125.XX PCT			4	2.07595	0.87093	0.02610	4	2.07595	0.87093	0.02610
Glycine, Post-col Ninhydrin Der	994.12	126.00	4	0.77570	0.18515	0.01650	4	0.77570	0.18515	0.01650
Method Group 126.XX PCT			4	0.77570	0.18515	0.01650	4	0.77570	0.18515	0.01650
Histidine, Post-col Ninhydrin Der	994.12	127.00	4	0.39343	0.03832	0.00640	4	0.39343	0.03832	0.00640
Method Group 127.XX PCT			4	0.39343	0.03832	0.00640	4	0.39343	0.03832	0.00640
Isoleucine, Post-col Ninhydrin Der	994.12	128.00	4	0.58956	0.03938	0.01207	4	0.58956	0.03938	0.01207
Method Group 128.XX PCT			4	0.58956	0.03938	0.01207	4	0.58956	0.03938	0.01207
Leucine, Post-col Ninhydrin Der	994.12	129.00	4	1.43136	0.04166	0.02538	4	1.43136	0.04166	0.02538
Method Group 129.XX PCT			4	1.43136	0.04166	0.02538	4	1.43136	0.04166	0.02538
L-Lysine, Post-col Ninhydrin Der	994.12	130.00	4	0.70741	0.05632	0.01623	4	0.70741	0.05632	0.01623
Method Group 130.XX PCT			4	0.70741	0.05632	0.01623	4	0.70741	0.05632	0.01623
Methionine, PAO Post-col Ninhydrin Der	994.12	131.00	3	0.23250	0.04399	0.01167	3	0.23250	0.04399	0.01167
Methionine, PAO Post-col OPA Der		131.02	1	0.22100	0.00141	0.00200	1	0.22100	0.00141	0.00200
Method Group 131.XX PCT			4	0.22963	0.03756	0.00925	4	0.22963	0.03756	0.00925
Phenylalanine, Post-col Ninhydrin Der	994.12	132.00	4	0.73928	0.01732	0.01555	4	0.73928	0.01732	0.01555
Method Group 132.XX PCT			4	0.73928	0.01732	0.01555	4	0.73928	0.01732	0.01555
Proline, Post-col Ninhydrin Der	994.12	133.00	3	0.98278	0.19521	0.04950	3	0.98278	0.19521	0.04950
Method Group 133.XX PCT			3	0.98278	0.19521	0.04950	3	0.98278	0.19521	0.04950
Serine, Post-col Ninhydrin Der	994.12	134.00	4	0.66810	0.19222	0.01225	4	0.66810	0.19222	0.01225
Method Group 134.XX PCT			4	0.66810	0.19222	0.01225	4	0.66810	0.19222	0.01225
Threonine, Post-col Ninhydrin Der	994.12	135.00	4	0.63235	0.03463	0.01115	4	0.63235	0.03463	0.01115
Method Group 135.XX PCT			4	0.63235	0.03463	0.01115	4	0.63235	0.03463	0.01115
Tryptophan, Alka-Hydrol Post-col Ninhyd	988.15	136.00	1	0.15650	0.00354	0.00500	1	0.15650	0.00354	0.00500
Tryptophan, Alka-Hydrol Rev Phase LC UV		136.01	2	0.19785	0.05449	0.06280	2	0.19785	0.05449	0.06280
Method Group 136.XX PCT			3	0.18407	0.04733	0.04353	3	0.18407	0.04733	0.04353
Tyrosine, Post-col Ninhydrin Der	994.12	137.00	2	0.57105	0.03496	0.02750	2	0.57105	0.03496	0.02750
Method Group 137.XX PCT			2	0.57105	0.03496	0.02750	2	0.57105	0.03496	0.02750
Valine, Post-col Ninhydrin Der	994.12	138.00	4	0.79847	0.10670	0.00910	4	0.79847	0.10670	0.00910
Method Group 138.XX PCT			4	0.79847	0.10670	0.00910	4	0.79847	0.10670	0.00910

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 002.02	--	--	Method 002.06	--	--	Method 002.08	--
693	0.4700	.71	695	7.7400	-.39	169	16.525	.76	098	16.800	.53	062	15.294	-1.56
			177	7.7100	-.45	Avg	16.338		171	16.800	.53			
--	Method 001.00	--	413	7.7000	-.46	307	16.150	-.96	142	16.800	.47	--	Method 002.10	--
859	90.184 s	78.31	679	7.6500	-.57				185	16.680	.43	688	16.450	.09
504	9.9450 S	1.62	045	7.5600	-.75	--	Method 002.04	--	096	16.670	.38	Avg	16.445	
309	9.2650	.98	366	7.5000	-.85	405	16.850	.87	520	16.675	.35	727	16.440	-1.22
844	8.2750	.05	083	7.4750	-.90	Avg	16.473		553	16.679	.21			
Avg	7.9632		353	7.4200	-1.02	728	16.095	-.86	670	16.660	.13	--	Method 002.11	--
722	8.1943	-.08	345	6.7750	-2.28				Avg	16.610		178	22.900 S	.00
169	8.0100	-.23				--	Method 002.05	--	205	16.595	-.09	724	21.600 S	.00
029	7.1850	-1.02	--	Method 001.99	--	552	39.610 s	54.50	354	16.555	-.14	Avg	0.0000	
560	6.8500	-1.34	405	11.270 S	4.04	852	17.550	2.34	510	16.550	-.19			
			096	9.4000	1.75	674	16.580 R	1.04	541	16.530	-.21	--	Method 002.99	--
--	Method 001.03	--	676	8.4260	.53	855	16.845	.82	695	16.510	-.26	693	17.360	1.62
686	8.1750	1.19	693	8.4100	.51	849	16.635	.18	298	16.500	-.27	Avg	16.866	
Avg	7.7117		638	8.0500	.09	Avg	16.561		650	16.475	-.34	305	16.745	-.44
688	7.6500	-.20	Avg	7.9989		177	16.520	-.10	857	16.540	-.34	724	16.690	-.56
731	7.3100	-1.03	536	7.8400	-.20	083	16.470	-.29	175	16.450	-.41	065	16.671	-.62
			357	7.7900	-.26	178	16.350	-.51	559	16.400	-.52			
--	Method 001.05	--	665	7.5900	-.51	651	16.288	-.65	106	16.340	-.67	--	Method 003.00	--
610	7.3900	-.71	853	6.4850	-1.88	354	16.215	-.82	021	16.355	-.70	309	8.1500	1.85
			541	6.6100 S	-1.94	620	16.173	-.94	119	16.310	-.74	354	7.6650	.98
									278	16.350	-.74	563	7.5632	.75
--	Method 001.07	--	--	Method 002.00	--	--	Method 002.06	--	100	16.300	-.77	164	7.4700	.58
142	9.2500	2.61	199	16.965	.87	645	18.250 s	4.13	108	16.295	-.78	Avg	7.1533	
307	8.5000 R	1.63	Avg	16.568		539	17.115 R	2.38	417	16.305	-.79	300	6.8450	-.57
559	8.6650	1.47	679	16.170	-.86	682	17.480	2.14	358	16.265	-.89	265	6.9500	-.59
616	8.5600	1.24				616	17.320	1.76	300	16.190	-1.05	307	7.0500	-.67
187	8.4600	1.04	--	Method 002.01	--	692	17.250	1.58	673	16.150	-1.14	848	6.7200	-.79
199	8.4050	.93	653	16.550	.95	160	17.175	1.39	309	15.920	-1.70	616	6.6800	-.88
049	7.9850	.45	652	16.350	.80	859	17.138	1.31	589	15.950	-1.71	337	6.4400	-1.31
098	8.0500	.37	731	16.490	.75	168	17.130	1.28	265	15.880	-1.81	142	4.0500 s	-5.71
588	8.1100	.35	Avg	16.233		035	17.065	1.12	337	15.720	-2.22			
171	8.0400	.30	848	16.025	-.63	164	17.055	1.10				--	Method 003.06	--
038	8.0550	.25	098	15.750	-1.42	199	16.985	.92	--	Method 002.08	--	688	7.3500	1.27
Avg	7.9335					122	16.911	.86	563	16.600	.73	852	7.1500	.86
035	7.8700	-.13				674	16.950	.84	208	16.600	.72	083	7.1500	.80
178	7.8500	-.19				529	16.910	.81	160	16.245	.14	229	7.1000	.67
849	7.8250	-.21				229	16.865	.63	Avg	16.185		559	6.9800	.42
278	7.8150	-.26												

* 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 003.11	--	--	Method 004.00	--	--	Method 004.07	--	--	Method 005.00	--
199	6.9700	.36	724	8.4900	.87	164	3.5500	-.30	300	3.3250	-.83	229	32.370	.37
731	6.8400	.05	Avg	7.6700		695	3.5900	-.48	529	3.3000	-.86	510	32.310	.27
Avg	6.8213		178	6.8500	-.87	354	3.4050	-.65	035	3.1850	-1.00	305	32.330	.23
682	6.8200	.00	--	Method 003.12	--	199	3.2850	-.98	307	2.8000	-1.46	363	32.325	.22
305	6.7850	-.16	171	7.0350	.84	298	3.0500	-1.61	--	Method 004.11	--	645	32.250	.14
122	6.6250	-.47	Avg	6.8075		--	Method 004.01	--	178	6.0000	.87	083	32.250	.14
169	6.2450	-1.38	670	6.5800	-.89	855	4.3750	.71	Avg	5.9250		354	32.250	.03
185	5.8400	-2.37	--	Method 003.13	--	--	Method 004.03	--	724	5.8500	-.87	Avg	32.248	
--	Method 003.09	--	205	6.3045	.75	679	3.9850	-.71	--	Method 004.99	--	622	32.232	-.06
849	8.0500	1.62	Avg	6.1623		--	Method 004.06	--	693	9.6100 S	.00	001	32.225	-.07
620	7.5274	.66	553	6.0200	-.97	354	4.3650 R	2.95	727	19.165 S	.00	026	32.215	-.09
651	7.4410	.50	--	Method 003.14	--	205	4.0200	1.61	Avg	0.0000		848	32.200	-.15
354	7.2550	.15	108	6.5400	1.27	674	4.0000	1.54	--	Method 005.00	--	559	32.220	-.27
Avg	7.1729		853	6.4850	1.16	178	3.8500 R	1.12	345	33.885 A	4.67	731	32.165	-.27
358	7.1700	-.13	278	6.3500	1.03	673	3.7000	.41	265	33.205	2.75	563	32.139	-.31
653	6.9650	-.39	185	5.5700	.09	653	3.6650	.33	337	32.860	1.81	164	32.135	-.32
674	6.8250	-.64	Avg	5.8292		098	3.6550	.25	185	32.845	1.71	653	32.235	-.33
673	6.1500	-1.89	021	5.1800	-.39	Avg	3.5893		695	32.830	1.66	205	32.145	-.36
--	Method 003.10	--	686	4.8500	-.75	670	3.5550	-.14	588	32.805	1.65	722	32.116	-.39
208	6.9950	.96	520	4.5700 S	-1.10	848	3.4150	-.65	676	32.802	1.60	035	32.110	-.39
062	6.9035	.81	529	4.4250 S	-1.24	688	3.3500	-.91	307	32.650	1.16	100	32.165	-.43
178	6.8500	.70	--	Method 003.99	--	620	3.2734	-1.18	679	32.640	1.12	686	32.110	-.43
100	6.7850	.59	724	7.0050	.73	849	3.2600	-1.25	688	32.600	1.05	520	32.095	-.45
727	6.7505	.54	Avg	6.9550		--	Method 004.07	--	853	32.355 R	1.03	689	32.090	-.47
119	6.7150	.46	693	6.9050	-.98	278	6.0500	2.42	142	32.600	1.01	021	32.185	-.48
298	6.4700	.03	--	Method 004.00	--	185	4.8150	.95	108	32.335 R	.88	199	32.060	-.56
Avg	6.4545		337	7.3650 s	9.99	100	4.6750	.88	672	32.550	.87	098	32.200	-.59
728	6.3100	-.26	265	4.4300 R	2.28	096	4.2500	.33	062	32.533	.85	358	32.050	-.61
160	6.3100	-.26	563	4.3712	1.94	686	4.1700	.21	855	32.500	.72	674	32.025	-.66
695	6.3200	-.34	208	4.0650	1.12	708	4.1100	.19	852	32.250	.71	620	32.018	-.67
855	6.2000	-.48	309	3.7500	.32	021	4.1050	.16	029	32.475	.66	171	32.020	-.69
098	5.2950 R	-2.09	559	3.7200	.22	Avg	4.0208		033	32.445	.60	300	31.995	-.72
679	4.8450	-2.84	171	3.6950	.16	682	3.8000	-.26	152	32.400	.43	027	31.970	-.80
			Avg	3.6481		098	3.6850	-.41	661	32.395	.42	651	31.967	-.80
						520	3.5600 R	-.79	710	32.385	.39	298	31.950	-.85
									729	32.360	.38	121	31.944	-.87
												849	31.940	-.88
												723	31.945	-.90
												541	32.015	-.94

* 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 009.09	--	--	Method 011.01	--	--	Method 011.01	--
539	32.075 R	-1.05	122	30.945	-.93	354	15.580	2.12	108	11.465 R	1.84	722	9.1023	-1.25
309	31.890	-1.06	728	29.485	-2.22	265	13.650 R	.89	541	11.195	1.39	674	8.9650	-1.43
623	31.782	-1.33				Avg	12.569		728	11.195	1.38	710	8.7400	-1.69
552	31.725	-1.50	--	Method 008.02	--	164	12.150	-.30	559	11.085	1.31	294	8.2900	-2.25
178	31.950 R	-1.79	728	5.9000	.79	686	12.150	-.31	520	11.025 R	1.25			
278	31.260 R	-2.98	083	5.7000	.66	278	11.950	-.44	407	11.020	1.18	--	Method 011.99	--
119	30.875	-3.92	098	5.6350	.64	160	11.825	-.53	164	10.870	.97	857	9.8500	.88
670	30.655 A	-4.56	Avg	4.7210		185	11.760	-.58	563	10.841	.94	Avg	9.3600	
401	30.600 A	-4.71	309	4.1750	-.37				122	10.535 R	.76	265	8.8700	-.85
550	30.330 s	-5.48	405	2.1950	-1.70	--	Method 009.99	--	855	10.620	.66	727	6.6035 S	-4.76
598	30.230 s	-5.76				728	14.255	.92	205	10.570	.60			
682	30.100 s	-6.13	--	Method 008.05	--	Avg	13.553		208	10.400	.38	--	Method 012.00	--
049	29.965 s	-6.52	265	7.5500	.71	693	12.850	-.81	026	10.340	.31	354	8.1500	1.22
160	29.905 s	-6.69							510	10.300	.26	178	7.1000	.01
650	29.880 s	-6.77	--	Method 008.08	--	--	Method 010.03	--	848	10.285	.25	Avg	7.0875	
616	29.870 s	-6.79	278	6.0500	1.51	027	6.5100	.71	119	10.130	.22	673	6.2500	-1.00
417	29.810 s	-6.97	307	5.4500	.65				305	10.260	.21	559	6.8500	-1.01
169	29.790 s	-7.02	160	5.2900	.42	--	Method 010.11	--	229	10.240	.18			
			164	5.0000	.14	724	9.1800	.85	171	10.135	.13	--	Method 012.01	--
--	Method 005.02	--	Avg	4.9900		Avg	8.5650		062	10.113	.03	185	8.4450	.71
610	325.80 S	.00	185	4.8400	-.22	178	7.9500	-.88	Avg	10.094				
			354	4.5650	-.64				653	10.065	-.04	--	Method 012.03	--
--	Method 005.11	--	686	3.7350	-1.77	--	Method 010.99	--	539	10.035	-.07	098	7.0150	-.71
665	32.550	.71				417	9.7100	1.52	033	10.065	-.12			
Avg	32.550		--	Method 008.99	--	673	9.3000	1.08	682	9.9800	-.14	--	Method 012.04	--
178	15.500 S	-133.96	307	6.8000	1.02	401	9.1950	.97	298	9.9000	-.24	160	7.1700	.71
724	10.450 S	-173.63	693	6.4300	.49	652	9.1500	.92	100	9.8300	-.36			
			Avg	6.3333		Avg	8.2980		354	9.8300	-.36	--	Method 012.11	--
--	Method 005.99	--	358	5.7700	-1.11	724	8.1300	-.18	650	9.8150	-.37	178	9.9000	.71
652	33.250	1.10				337	8.0100	-.31	622	9.7941	-.38			
727	33.050	.92	--	Method 009.07	--	529	7.6350	-.71	226	9.8000	-.44	--	Method 013.02	--
096	32.750	.66	083	15.700	1.26	852	7.4500	-.91	358	9.7350	-.45	171	8.1850	1.24
693	32.475	.42	307	14.050	.20	168	7.2300	-1.15	552	9.6500	-.55	164	8.0750	1.02
673	32.200	.17	Avg	13.780		065	7.1700	-1.21	160	9.5300	-.70	229	8.0100	.91
536	32.010	.04	309	13.620	-.32				620	9.4465	-.81	354	7.9900	.86
Avg	32.003		098	11.750	-1.33	--	Method 011.01	--	098	9.7500 R	-.92	100	7.8550	.64
724	31.860	-.13				185	12.250	2.69	152	9.2500	-1.06	645	7.8500	.60
065	31.875 R	-.41				309	11.835 R	2.22	021	9.1650	-1.16	208	7.5650	.08
208	31.600 R	-.57				670	11.755	2.08	645	9.1500	-1.18	Avg	7.5447	

* 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 013.02	--	--	Method 016.00	--	--	Method 019.00	--	--	Method 019.01	--	--	Method 019.05	--
650	7.2350	-.60	619	0.2595	.71	646	6.4750	.25	014	6.3885	-.48	004	6.6345	.62
855	7.1700	-.81				Avg	6.4320		563	6.2943	-.53	029	6.5985	.50
616	7.0850	-.90	--	Method 016.02	--	689	6.3750	-.37	619	6.3000	-.54	695	6.5450	.38
676	6.8465	-1.36	154	1.2500	.86	623	6.3165	-.64	169	6.2850	-.58	164	6.4700	.25
853	6.6700	-1.69	Avg	0.7341		651	6.2835	-.83	098	6.2700	-.67	049	6.4500	.24
337	6.3200 R	-2.47	011	0.2183	-.87	552	6.0900	-1.93	152	6.2500	-.77	026	6.4550	.15
									013	6.2250	-.96	510	6.4250	.08
--	Method 013.10	--	--	Method 017.00	--	--	Method 019.01	--	278	6.1900	-1.02	Avg	6.3930	
652	8.6500	1.39	560	18.450 R	2.46	731	7.8500 s	6.67	612	6.1900	-1.03	229	6.3800	-.06
185	8.2600	.93	345	18.285	2.24	609	7.4550 s	4.86	233	6.1700	-1.11	148	6.3600	-.08
177	7.7550	.31	049	16.140	.26	722	7.3926 s	4.66	039	6.1499	-1.20	550	6.3610	-.09
160	7.7050	.24	Avg	15.871		019	6.9450	2.51	710	6.1450	-1.22	682	6.3000	-.23
539	7.6250	.14	294	15.630	-.25	856	6.9000 R	2.45	638	6.1800 R	-1.41	083	6.3050	-.23
Avg	7.5075		045	15.300	-.54	588	6.8300	1.95	650	6.0800	-1.60	100	6.2850	-.27
688	7.4500	-.09	693	15.255	-.57	178	6.7250 R	1.74	026	6.0350	-1.73	011	6.2833	-.30
307	7.4500 R	-.55	510	15.230	-.59	034	6.7100	1.39	142	6.0000	-1.89	405	6.2150	-.44
673	6.6000	-1.10	353	15.260	-.62	504	6.5150 R	1.11	307	5.9050 s	-3.37	185	6.1200	-.67
096	6.0150	-1.82	021	10.150 s	-5.30	122	6.6300	1.07	591	5.4495 s	-4.44	645	6.1066	-.70
						723	6.6300	1.02	108	5.2950 s	-5.29	144	6.2600 R	-.76
--	Method 013.11	--	--	Method 017.99	--	536	6.6200	1.00				661	6.0550	-.82
417	8.6600	.71	307	24.500 S	42.03	038	6.5950	.97	--	Method 019.03	--	553	6.0150	-.94
			Avg	13.515		674	6.6000	.93	686	7.4350	1.41	242	5.9600	-1.06
--	Method 013.99	--	358	13.515	-.71	035	6.5435	.65	043	6.8800	.47	520	6.2000 R	-1.08
065	8.1029	.71				001	6.5375	.62	307	6.7450	.32	598	5.9000	-1.20
			--	Method 018.02	--	354	6.5400	.61	Avg	6.6125		294	5.8800	-1.35
--	Method 015.00	--	021	0.7500	1.46	010	6.5350	.61	508	6.0224	-1.01	089	5.8300	-1.37
616	737.00	1.94	567	0.5800	.27	006	6.5250	.54	026	5.9800	-1.08	051	5.7350	-1.62
345	658.50	.91	Avg	0.5610		670	6.4465	.52				208	5.7705 R	-1.64
520	638.50	.69	154	0.5150	-.36	263	6.5166	.50	--	Method 019.05	--	265	5.3750	-2.51
154	635.00	.61	011	0.4715	-.67	350	6.4745	.31	407	7.1200	1.77	298	4.9000 s	-5.18
560	624.50	.48	508	0.4886	-1.31	669	6.4470	.30	860	6.9900	1.46			
Avg	586.48					675	6.4600	.24	413	6.9700	1.43	--	Method 019.08	--
510	573.50	-.17	--	Method 019.00	--	036	6.4565	.23	226	6.8600	1.24	590	7.0950	1.27
021	558.50	-.41	043	7.2000 s	4.27	305	6.4450	.20	358	6.8850	1.22	673	6.7500	.58
011	540.70	-.74	175	6.6900	1.44	205	6.4300	.17	511	6.8300	1.19	729	6.5500	.45
353	500.30	-1.09	679	6.5850	.85	Avg	6.4087		003	6.8700	1.16	Avg	6.5220	
169	498.50	-1.11	620	6.5477	.64	505	6.3750	-.19	168	6.8230	1.05	848	6.3950	-.28
049	486.27	-1.29	622	6.4627 R	.56	363	6.3550	-.27	300	6.6890	.81	689	5.8200	-1.50
164	282.00 s	-3.84	849	6.5250	.52	208	6.3200	-.41	171	6.6750	.71			

* 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 019.09	--	--	Method 020.00	--	--	Method 021.02	--	--	Method 022.01	--	--	Method 022.03	--
021	7.0550	1.61	563	20.360	.92	171	10.150	-.45	731	755.50	-.10	407	740.50	-.16
345	7.0350	1.55	Avg	17.990		011	10.376	-.48	619	753.50	-.15	144	732.00	-.38
353	6.9650	1.34	164	17.000	-.38	366	10.500	-.52	653	751.48	-.24	100	726.00	-.49
042	6.9350	1.25	722	16.610	-1.23	038	10.050	-.53	710	739.50	-.57	049	720.24	-.63
009	6.8400	1.03				154	9.8000	-.79	178	741.00	-.60	300	716.80	-.71
199	6.8305	.94	--	Method 020.01	--	560	10.310	-1.15	039	739.40	-.63	208	720.50	-.77
366	6.7350	.77	021	18.950	1.55	169	8.9150	-1.71	536	736.50	-.67	553	713.50	-.79
045	6.7150	.63	567	17.300	.80				307	735.00	-.77	242	706.00	-.97
027	6.6800	.54	560	16.500	.73	--	Method 021.99	--	716	729.50	-.89	185	703.00	-1.04
154	6.5866	.43	096	16.500	.48	017	14.500 R	1.72	035	729.00	-.89	695	663.00	-2.02
186	6.5950	.26	Avg	15.581		563	14.290	1.09	505	721.50	-1.13	265	630.50	-2.79
017	6.5600	.14	011	15.354	-.59	693	13.010	.47	010	730.00 R	-1.26			
560	6.5400	.08	154	14.100	-.68	Avg	12.099		305	714.79	-1.33	--	Method 022.05	--
Avg	6.5138		171	13.300	-1.04	672	11.850	-.30	646	704.00	-1.66	186	838.00	1.82
187	6.4300	-.25	510	12.645	-1.34	508	9.2473	-1.42	675	700.25	-1.77	413	819.50	1.43
190	6.4000	-.34	508	1.3784 s	-6.48				354	695.00	-1.93	021	814.50	1.37
616	6.2950	-.66				--	Method 022.01	--	591	618.65 s	-4.26	560	806.00	1.17
357	6.2950	-.76	--	Method 020.99	--	036	941.75 s	5.60	019	7.4650 s	-22.91	309	805.60	1.16
096	6.2500	-.80	675	15.075	.87	278	809.30 R	1.77				027	790.24	.81
106	6.2000	-.93	Avg	14.463		856	810.00	1.69	--	Method 022.03	--	199	782.50	.65
160	6.1201	-1.17	616	13.850	-.87	590	810.50	1.63	520	748.00 R	1.61	353	778.70	.57
038	6.1250	-1.20				014	805.50	1.48	164	808.00	1.50	160	754.00	.47
848	6.0550	-1.36	--	Method 021.01	--	038	796.00	1.24	171	797.00	1.22	345	770.78	.42
567	6.0900	-1.39	175	22.500 S	3.26	013	797.50	1.20	358	792.36	1.11	106	763.50	.26
028	6.0000	-1.53	619	15.900	1.57	723	794.50	1.11	083	790.00	1.07	366	754.50	.06
309	6.4765 R	-1.90	Avg	9.4984		612	782.50 R	1.05	511	780.00	.92	Avg	751.85	
			164	8.5000	-.25	350	791.20	1.03	004	776.00	.89	187	741.34	-.23
			722	7.4937	-.51	689	791.50	1.01	226	782.00	.86	190	742.40	-.23
--	Method 019.99	--	208	6.1000	-.84	208	780.50	.75	011	781.19	.85	096	740.00	-.33
665	7.7200	1.33				638	782.00	.75	003	776.00	.79	045	747.50	-.44
852	7.6500	1.24	--	Method 021.02	--	175	779.00	.63	026	756.50	.61	009	730.88	-.46
047	6.9850	.19	510	15.745 s	5.31	504	776.00	.56	029	756.65	.46	017	750.00	-.51
Avg	6.8647		567	12.350	2.03	674	769.48	.34	550	753.71	.46	357	720.50	-.68
693	6.7000	-.37	186	11.500	1.09	588	759.00	.15	598	755.50	.39	028	718.00	-.89
672	6.7650	-.54	021	11.350	.98	669	758.68	.15	148	761.35	.36	567	698.50	-1.12
121	6.2430	-.96	106	11.050	.52	098	759.50	.14	405	748.00	.31	042	694.50	-1.28
692	5.9900	-1.35	029	10.585	.34	563	761.30	.09	229	756.50	.25	294	683.92	-1.46
724	4.6300 S	-3.45	Avg	10.564		Avg	758.30		510	752.50	.15	154	683.00	-1.55
			616	10.400	-.17	722	755.82	-.08	Avg	746.26		169	668.00	-1.77

* 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 022.05	--	--	Method 025.03	--	--	Method 025.05	--	--	Method 027.01	--	--	Method 027.03	--
616	586.50 S	-3.49	168	2359.5 s	6.22	567	1433.0	.27	001	0.6755	.71	003	0.8050 S	3.30
508	588.08 s	-4.48	083	1636.5	1.53	106	1430.0	.26	263	0.6903	.67	511	0.7450	2.03
			004	1610.5	1.36	Avg	1386.4		731	0.6800	.42	860	0.7350	1.82
--	Method 022.99	--	358	1587.2	1.24	186	1383.5	-.02	038	0.6730	.36	171	0.7180	1.47
672	763.65 R	1.44	029	1576.5	1.20	616	1380.0	-.22	722	0.6752	.30	226	0.7050	1.21
693	792.50	1.32	049	1466.3 R	.92	096	1350.0	-.34	098	0.6700	.30	300	0.6995	1.09
121	773.98	.95	510	1541.5	.91	187	1277.6	-.60	856	0.6700	.30	510	0.6850	.80
846	744.33	.39	026	1540.0	.91	294	1203.0	-1.02	669	0.6715	.29	413	0.6700	.49
018	742.10	.15	229	1540.0	.90	353	1202.5	-1.06	650	0.6640	.24	520	0.6500	.42
Avg	735.92		242	1519.0	.77	345	1187.7	-1.09	010	0.6675	.13	100	0.6650	.40
047	733.75	-.32	100	1514.5	.74	309	1204.0 R	-1.19	588	0.6660	.12	164	0.6650	.40
692	701.50	-.83	171	1505.0	.69	508	1159.8	-1.32	504	0.6635	.06	148	0.6625	.33
043	663.31	-1.70	148	1425.5	.16	169	1140.0	-1.35	Avg	0.6628		Avg	0.6464	
			Avg	1400.8		154	1078.0	-1.70	013	0.6625	-.06	026	0.6457	-.02
--	Method 024.01	--	695	1391.0	-.11	160	0.1363 s	-7.62	505	0.6600	-.07	004	0.6460	-.08
208	22.700	-.71	553	1375.0	-.19				675	0.6550	-.23	011	0.6434	-.13
			520	1390.0	-.27	--	Method 025.99	--	278	0.6600	-.25	029	0.6404	-.44
--	Method 025.01	--	265	1380.5	-.36	693	1559.0	.96	350	0.6489	-.34	598	0.6250	-.45
674	2536.5 s	5.35	598	1342.5	-.38	Avg	1419.3		019	0.6450	-.45	144	0.6250	-.45
175	1950.0	2.26	300	1367.0	-.46	692	1279.5	-.76	563	0.6410	-.53	185	0.6250	-.45
035	1786.0	1.37	226	1336.0	-.51				014	0.6445	-.65	553	0.6200	-.58
208	1740.0	1.14	144	1318.5	-.55	--	Method 026.00	--	305	0.6350	-.69	208	0.6290	-.59
278	1660.5	.72	011	1278.3 R	-1.04	154	0.5745	-.71	638	0.6400	-.74	242	0.6150	-.65
675	1619.7	.51	407	1208.5	-1.25				674	0.6300	-.83	083	0.6150	-.65
350	1601.5	.40	550	1206.5	-1.26	--	Method 026.99	--	619	0.6285	-.84	695	0.6199	-.67
098	1555.5	.33	164	1210.0	-1.26	011	0.6073	1.19	307	0.6350	-.91	358	0.6150	-.72
563	1560.0	.19	208	1206.0	-1.27	Avg	0.2801		710	0.6250	-.93	265	0.5900	-1.18
504	1537.5	.06	003	1192.0	-1.36	563	0.2330	-.21	169	0.6250	-.93	550	0.5915 R	-1.26
Avg	1526.7		405	1100.0	-1.95	619	0.0000	-1.02	035	0.6210	-1.02	229	0.5550	-1.88
722	1503.7	-.12							142	0.6200	-1.07	407	0.5435	-2.12
307	1480.5	-.25	--	Method 025.05	--	--	Method 027.01	--	039	0.6189	-1.07	294	0.4900 S	-3.22
038	1460.0	-.39	413	1705.0	1.75	723	0.8500 s	4.54	337	0.6180	-1.10	049	0.4800 S	-3.42
670	1432.0	-.50	199	1588.5	1.11	646	0.7750	2.72	591	0.6095	-1.35	405	0.4550 S	-3.94
536	1431.0	-.51	017	1548.0	1.03	609	0.7650	2.48	612	0.6000	-1.54			
354	1394.0	-.70	042	1572.5	1.02	590	0.7425	1.93	175	0.5950 R	-1.85	--	Method 027.05	--
619	1375.0	-.82	560	1570.0	1.02	208	0.7235	1.48				009	0.7538 S	2.32
305	1234.8	-1.55	021	1538.0	.84	536	0.7135	1.26				345	0.7500	1.77
710	1158.0	-1.95	045	1520.0	.78	006	0.7050	1.03				309	0.6628 R	1.67
014	386.50 s	-6.05	366	1460.0	.46	689	0.7000	.90				353	0.7350	1.55

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 027.05	--	--	Method 028.01	--	--	Method 028.03	--	--	Method 028.05	--	--	Method 031.01	--
042	0.7200	1.23	208	2400.0	1.07	300	2253.0	.67	Avg	2310.3		731	1.9100	.94
028	0.7050	1.13	035	2391.0	1.00	550	2333.1	.66	042	2282.0	-.21	034	1.8800	.65
154	0.6755	.90	039	2390.8	1.00	171	2320.0	.56	366	2300.0	-.24	722	1.8485	.35
560	0.6970	.89	038	2355.0	.84	510	2304.0	.45	187	2275.1	-.26	563	1.8487	.34
021	0.6900	.66	175	2360.0	.82	004	2259.5	.39	353	2246.0	-.51	849	1.8250	.27
199	0.6855	.57	350	2361.0	.77	229	2288.0	.38	190	2240.7	-.53	278	1.8350	.25
027	0.6790	.47	563	2351.5	.71	164	2280.0	.30	096	2250.0	-.58	019	1.8350	.25
186	0.6775	.41	010	2330.0	.61	011	2245.8	.10	160	2272.5	-.61	354	1.8350	.21
Avg	0.6555		278	2334.0	.55	100	2244.0	.06	357	2223.5	-.65	175	1.8350	.21
366	0.6400	-.29	307	2330.5	.54	Avg	2234.5		508	2040.5	-2.08	233	1.8250	.18
106	0.6395	-.30	014	2322.0	.52	029	2231.5	-.06	169	1935.0	-2.80	036	1.8300	.17
567	0.6350	-.39	019	2308.0	.46	148	2228.0	-.07	309	1766.5 S	-4.13	205	1.8250	.12
357	0.6350	-.39	590	2300.0	.28	083	2219.0	-.16	616	1745.0 A	-4.22	723	1.8250	.12
190	0.6350	-.47	612	2296.5	.26	003	2200.0	-.24	154	1511.5 s	-5.95	679	1.8200	.11
017	0.6450	-.51	Avg	2264.7		185	2172.5	-.43				Avg	1.8138	
096	0.6250	-.58	856	2255.0	-.14	598	2134.5	-.65	--	Method 028.99	--	263	1.8052	-.10
187	0.6200	-.66	505	2255.0	-.14	049	2127.8	-.74	693	2440.5	1.52	620	1.8046	-.14
508	0.6187	-.69	689	2249.5	-.16	520	2121.5	-.87	121	2328.4	.58	098	1.7950	-.23
045	0.6135	-.79	722	2229.9	-.30	553	2080.0	-1.01	672	2323.4	.55	619	1.8000	-.24
160	0.6524	-.85	731	2227.5	-.30	695	2015.0	-1.43	846	2280.7	.28	026	1.7850	-.28
038	0.5710	-1.59	710	2189.0	-.60	208	1999.0	-1.63	Avg	2240.6		670	1.7850	-.32
616	0.5330	-2.30	669	2199.1	-.60	144	2027.7 R	-1.65	047	2220.0	-.50	169	1.7800	-.34
			098	2208.5	-.62	407	1868.0	-2.38	692	2050.0	-1.24	588	1.7640	-.49
			638	2175.0	-.71	405	1712.0 s	-3.39	043	2041.0	-1.30	651	1.7480	-.66
--	Method 027.99	--	354	2164.5	-.79							710	1.7450	-.67
018	0.6800	1.22	674	2163.2	-.80	--	Method 028.05	--	--	Method 029.00	--	305	1.7450	-.75
121	0.6715	.86	305	2063.1	-1.60	567	2541.5 R	2.02	675	0.0030	.71	350	1.7317	-.80
672	0.6450	.72	675	2056.2	-1.65	106	2515.0	1.53				675	1.7300	-.82
Avg	0.6277		619	2056.0	-1.65	294	2443.5	1.00	--	Method 031.00	--	689	1.7200	-.92
051	0.5950	-.62	001	2039.5	-1.78	009	2438.8	.96	622	1.7947	.71	038	1.7400 R	-.93
693	0.6150	-.87	646	2017.3	-1.97	021	2433.0	.94				142	1.7000	-1.11
692	0.5600	-1.27				345	2432.0	.92	--	Method 031.01	--	363	1.6950	-1.16
047	0.4850 S	-2.73	--	Method 028.03	--	413	2400.0	.67	650	2.1350 A	3.14	337	1.7050 R	-1.24
--	Method 028.01	--	860	2968.3 s	4.76	045	2380.0	.60	511	2.0800	2.64	039	1.6810	-1.30
536	2777.5 s	4.06	265	2564.0	2.15	028	2361.0	.60	609	2.0600	2.41	848	1.6150	-1.94
723	2528.5	2.09	226	2468.5	1.55	027	2360.0	.43	669	1.9735	1.56	108	1.6050	-2.06
178	2348.5 R	1.60	358	2461.2	1.50	186	2337.0	.24	623	1.9647	1.50	646	1.4300 s	-3.74
588	2418.0	1.21	026	2341.5	.78	560	2335.0	.24	178	1.9250	1.17	122	1.3900 s	-4.13
013	2410.0	1.15	511	2337.5	.68	017	2326.0	.13	001	1.9220	1.06	152	1.3100 s	-4.91

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
-- Method 031.01 --			-- Method 031.05 --			-- Method 031.05 --			-- Method 032.01 --			-- Method 032.04 --		
674	0.8600 s	-9.31	121	1.8605	.64	294	1.6400	-1.53	856	3.9300	.23	638	3.9000	-.71
			682	1.8600	.63	089	1.6050	-1.81	646	3.9150	.18			
-- Method 031.02 --			358	1.8450	.49	848	1.6000	-1.87	653	3.8800	.08	-- Method 032.05 --		
505	1.8700	.96	695	1.8400	.48	616	1.5950	-1.91	Avg	3.8688		860	4.6150 s	2.81
013	1.8350	.69	298	1.8400	.45	405	1.5050	-2.77	035	3.8455	-.11	226	4.4950	2.33
043	1.8300	.65	598	1.8300	.34	309	1.4805 s	-3.05	098	3.8400	-.13	083	4.4950	2.32
Avg	1.7462		021	1.8250	.30				208	3.8600	-.15	560	4.3400	1.69
014	1.5990	-1.14	550	1.8200	.25	-- Method 031.06 --			350	3.8199	-.24	021	4.2600 R	1.68
011	1.5969	-1.17	144	1.8100	.24	536	1.7800	.71	038	3.8100	-.29	345	4.3100	1.57
			100	1.8100	.24	Avg	1.7800		354	3.8250	-.33	695	4.2800	1.51
-- Method 031.03 --			168	1.8170	.23	686	1.6250 S	-11.11	175	3.7250	-.55	511	4.1600 R	1.37
003	1.9000	1.12	199	1.8175	.22				591	3.7215 R	-.83	645	3.9735 R	1.36
043	1.8650	.88	160	1.8126	.19	-- Method 031.99 --			670	3.5910	-1.10	353	4.2250	1.28
504	1.8550	.56	190	1.7950	.14	729	2.3300 s	4.88	722	3.5686	-1.14	171	4.1600	.99
Avg	1.8100		029	1.8025	.14	852	1.9950	1.68	674	3.5000	-1.39	413	4.1050	.81
026	1.8050	-.09	510	1.8050	.11	724	1.8800	.58	505	3.4900	-1.43	300	4.0450	.55
033	1.7300	-1.11	045	1.8000	.11	672	1.8250	.53	337	3.4860	-1.45	026	4.0220	.41
208	1.7800	-1.18	Avg	1.7943		693	1.8500	.48	305	3.4750	-1.49	407	4.0200	.38
307	1.7350	-1.23	148	1.7815	-.13	590	1.8400	.35	039	3.3725	-1.87	265	4.0050	.35
			357	1.7800	-.17	Avg	1.8194		675	3.0350 S	-3.15	242	4.0100	.34
-- Method 031.05 --			567	1.7750	-.23	673	1.8000	-.18	142	3.0000 S	-3.28	164	4.0000	.30
860	2.1750 s	3.65	154	1.7595	-.33	692	1.7100	-1.08				028	3.9750	.30
226	1.9850	1.84	187	1.7500	-.42	552	1.6550	-1.58	-- Method 032.02 --			096	3.9500	.23
413	1.9750	1.75	661	1.7450	-.47				014	4.0195	1.24	038	3.9400	.21
560	1.9650	1.63	366	1.7600	-.50	-- Method 032.01 --			665	4.0500	1.12	190	3.9600	.18
345	1.9500	1.57	009	1.7500	-.51	609	4.4000	2.01	504	4.0150	.87	199	3.9660	.16
353	1.9450	1.48	229	1.7400	-.52	019	4.3600	1.89	731	3.9500	.50	121	3.9535	.11
186	1.9450	1.46	017	1.7400	-.52	563	4.3210	1.71	588	3.9550	.30	049	3.9350	.04
508	1.9013 R	1.18	083	1.7350	-.57	036	4.1550	1.09	Avg	3.9208		Avg	3.9133	
027	1.9100	1.12	038	1.7900	-.58	307	3.9650 R	.72	590	3.8850	-.33	045	3.9200	-.05
171	1.9050	1.07	164	1.7250	-.66	278	4.0450	.69	536	3.8740	-.54	148	3.9065	-.08
645	1.8810 R	1.05	242	1.7100	-.81	612	4.0350	.66	169	3.8400	-.74	616	3.9100	-.11
096	1.9000	1.01	049	1.7050	-.86	723	4.0300	.64	669	3.6985	-1.92	186	3.9150	-.23
407	1.8850	.88	051	1.7100	-.94	619	4.0250	.60	108	3.2950 s	-5.45	366	3.8700	-.26
208	1.8855	.88	106	1.6850	-1.06	205	4.0200	.59				508	3.8685	-.27
028	1.8800	.83	553	1.6750	-1.14	013	3.8700	.53	-- Method 032.03 --			187	3.8600	-.28
300	1.8600	.75	185	1.6750	-1.15	001	3.9945	.48	003	3.9700	.71	294	3.8850	-.28
004	1.8515	.71	520	1.7000 R	-1.32	710	3.9700	.38				229	3.8600	-.28
042	1.8600	.69	265	1.6450	-1.47	650	3.9050	.28				598	3.8650	-.31

* 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 032.05	--	--	Method 033.00	--	--	Method 033.01	--	--	Method 034.04	--	--	Method 035.00	--
100	3.8750	-.34	353	9.9900	.45	510	9.9600	-.24	208	17.800 R	1.71	278	2.0800	.63
550	3.8525	-.35	504	9.9550	.42	096	9.9650	-.27	169	17.050	1.18	337	2.0615	.51
405	3.8350	-.39	511	9.9850	.41	278	9.9600	-.27	619	17.000	1.15	307	2.0450	.35
011	3.8217	-.43	638	9.9400	.30	029	9.9400	-.49	563	15.295	.05	038	2.0100	.17
027	3.9000	-.46	Avg	9.8272		011	9.9042	-.56	Avg	15.289		723	2.0100	.17
042	3.8100	-.48	309	9.7755	-.14	590	9.7000	-1.57	164	15.050	-.16	Avg	1.9990	
160	3.8201	-.50	160	9.8100	-.19	413	9.7050 R	-2.06	026	14.340	-.64	363	1.9950	-.11
144	3.8550	-.52	567	9.7800 R	-.41	004	9.5800	-2.20	171	13.000	-1.53	208	1.9700	-.21
154	3.7765	-.62	689	9.6200	-.54	164	9.5250	-2.52				619	1.9550	-.32
510	3.7600	-.68	731	9.3500	-1.26	710	8.7500 s	-6.46	--	Method 034.05	--	710	1.9500	-.36
357	3.7800	-.68	849	9.2000	-1.64	106	8.6600 s	-6.93	021	18.550	.70	122	1.9250	-.54
106	3.7550	-.71	679	9.1800	-1.70				309	18.480	.69	354	1.9100	-.66
017	3.7550	-.72	588	9.0700	-1.99	--	Method 033.03	--	560	17.400	.27	039	1.8950	-.75
004	3.7410	-.78	016	6.9150 S	-7.63	190	13.605 S	1.62	Avg	16.920		675	1.8600	-1.01
358	3.7100	-.89	695	5.9750 s	-10.09	144	12.500	1.02	154	13.250	-1.57	305	1.8500	-1.09
520	3.7500	-.95	298	5.7200 s	-10.76	505	10.895	.20	011	5.5545 S	-4.86	670	1.8410	-1.16
185	3.6950	-.95	407	3.2500 s	-17.23	Avg	10.578					142	1.7500	-1.84
567	3.7800 R	-1.01				265	8.3400	-1.19	--	Method 034.06	--	152	1.7050	-2.13
009	3.5700	-1.46	--	Method 033.01	--	674	2.9450 S	-4.06	013	15.050	-.71	019	0.3500 s	-11.93
029	3.5600	-1.52	610	102.50 s	477.15									
309	3.5440	-1.60	226	10.950 s	4.89	--	Method 033.05	--	--	Method 034.99	--	--	Method 035.01	--
051	3.2750	-2.66	098	10.900 s	4.74	171	10.400	.71	693	18.565	1.32	686	1.9900	1.21
208	3.1130 s	-3.33	337	10.240	1.42				Avg	15.585		856	2.0000	.94
			051	10.120 R	1.29	--	Method 033.99	--	047	15.550	-.15	Avg	1.9842	
--	Method 032.99	--	026	10.240	1.24	693	10.435	1.66	096	15.500	-.22	563	1.9625	-.38
693	4.0550	1.21	019	10.185	.95	673	10.000	.30	121	12.724	-1.30			
672	3.9200	.07	185	10.175	.93	Avg	9.9030		098	0.0100 S	-6.85	--	Method 035.03	--
Avg	3.9183		205	10.150	.84	552	9.8600	-.16				860	2.5800 s	3.94
692	3.7800	-1.02	175	10.150	.76	855	9.6200	-.88	--	Method 035.00	--	560	2.3550	2.49
			559	10.125	.63	619	9.6000	-.94	609	2.5650 s	4.11	407	2.3100	2.20
--	Method 033.00	--	021	10.065	.54	723	6.8350 S	-9.48	263	2.2329	1.69	510	2.2700	1.94
653	10.270	1.16	650	10.085	.54	003	5.7800 S	-12.73	036	2.2205	1.60	004	2.1930	1.44
013	10.235	1.07	178	10.095	.53	121	5.0670 S	-14.94	233	2.1600	1.19	190	2.1900	1.42
539	10.195	1.01	307	10.050	.35	358	4.7800 S	-15.82	722	2.1531	1.12	345	2.1650	1.29
034	10.180	.93	039	10.025	.11				098	2.0950	.88	186	2.1500	1.17
208	10.150 R	.93	229	10.020	.09	--	Method 034.01	--	035	2.1160	.85	226	2.1100	.90
366	10.100	.71	Avg	10.003		038	15.750	.71	650	2.1000	.79	413	2.1050	.87
675	10.035	.55	354	9.9700	-.18				175	2.0000 R	.72	353	2.0700	.67
045	10.000	.45	199	9.9600	-.23				205	2.0850	.65	187	2.0550	.55

* 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 035.03	--	--	Method 035.03	--	--	Method 036.03	--	--	Method 037.01	--	--	Method 037.03	--
021	2.0450	.53	208	1.6530	-2.07	171	0.6760	.23	612	2662.5	.56	083	2637.5	.18
242	2.0200	.45	265	1.5950	-2.43	708	0.6710	.16	591	2726.0	.48	164	2615.0	.15
154	1.9710	.45	405	1.4200 s	-3.56	169	0.6700	.14	563	2689.5	.36	510	2622.5	.07
029	2.0289	.38	511	1.2000 s	-4.98	693	0.6650	.10	010	2690.0	.23	Avg	2614.1	
148	2.0275	.37				Avg	0.6592		723	2688.5	.22	229	2595.0	-.14
042	2.0250	.35	--	Method 035.05	--	042	0.6585	-.06	208	2675.0	.16	148	2561.0	-.32
199	2.0055	.23	536	2.5090	2.12	357	0.6500	-.18	Avg	2654.1		407	2555.0	-.38
121	1.9935	.20	108	2.2400 S	1.64	366	0.6400	-.25	350	2649.0	-.03	598	2530.5	-.49
096	2.0000	.19	590	2.1950	.66	045	0.6350	-.32	307	2620.0	-.29	144	2526.3	-.52
038	1.9850	.19	669	2.1560	.48	508	0.6473 R	-.39	505	2595.0	-.38	242	2525.5	-.53
695	1.9850	.10	294	2.0750	.15	038	0.6305	-.42	689	2592.5	-.40	026	2563.5	-.56
298	1.9800	.09	Avg	2.0534		160	0.6256	-.46	098	2604.0	-.42	520	2522.5	-.61
164	1.9750	.04	171	2.0400	-.08	300	0.6180	-.54	001	2590.5	-.46	185	2446.0	-1.00
Avg	1.9706		169	2.0050	-.24	353	0.6300 R	-.55	354	2582.5	-.47	208	2441.5	-1.02
661	1.9650	-.05	588	1.9995	-.25	294	0.5950	-.84	039	2566.5	-.58	049	2427.8	-1.11
229	1.9600	-.07	504	1.9950	-.30	550	0.5700 R	-1.22	669	2564.8	-.58	695	2327.5	-1.69
083	1.9600	-.09	731	1.9200	-.63	598	0.5100	-1.96	716	2631.0	-.61	003	2332.5	-1.70
045	1.9500	-.15	106	1.6400	-1.93	616	0.4865	-2.27	710	2552.0	-.65	405	1795.5 s	-4.83
100	1.9650	-.17	665	1.1950 s	-4.00				588	2550.0	-.67			
049	1.9500	-.24				--	Method 036.04	--	619	2546.5	-.89	--	Method 037.05	--
017	1.9450	-.28	--	Method 035.99	--	510	0.5650	.71	731	2503.5	-.96	186	3014.5	1.72
508	1.9353	-.28	003	2.2750	1.75				278	2496.7	-1.01	413	2945.0	1.41
366	1.9300	-.29	027	2.1150	.47	--	Method 037.00	--	638	2450.0	-1.32	353	2869.0	1.08
553	1.9150	-.37	Avg	2.0592		550	2495.6	-.71	305	2374.3	-1.79	560	2837.5	.98
160	1.9212	-.40	724	2.0050	-.44				035	2273.0	-2.44	106	2834.5	.94
011	1.8980	-.47	051	2.0150	-.57	--	Method 037.01	--	674	148.99 s	-16.01	009	2788.7	.75
144	1.9500 R	-.53	693	2.0150	-.78	536	3343.7 s	4.41				021	2738.5	.66
358	1.8850	-.55	692	1.9300	-1.05	722	3263.4 s	3.90	--	Method 037.03	--	345	2729.5	.54
185	1.8800	-.59				178	2933.0	1.83	265	3289.0 s	4.20	199	2728.5	.50
645	1.8714	-.65	--	Method 036.00	--	675	2918.8	1.76	171	2960.0 X	2.04	045	2660.0	.47
520	1.8500	-.84	307	0.5450	.71	856	2905.0	1.60	226	2904.0	1.71	017	2714.5	.46
598	1.8200	-.99				590	2850.0 R	1.58	358	2851.8	1.46	028	2684.5	.33
682	1.8000	-1.10	--	Method 036.03	--	014	2870.0	1.40	300	2726.5 R	1.46	567	2631.0	.22
550	1.7970	-1.13	187	0.7988	1.83	013	2840.0	1.20	029	2853.5	1.44	187	2625.0	.09
089	1.7850	-1.20	186	0.7905	1.72	653	2817.3	1.06	511	2762.5	.95	Avg	2609.6	
567	1.7900	-1.21	021	0.7325	.98	019	2802.0	.95	100	2737.5	.74	357	2574.5	-.15
309	1.7845	-1.23	560	0.7295	.92	038	2785.0	.88	011	2727.1	.67	190	2521.4	-.37
300	1.7910 R	-1.30	106	0.7160	.75	175	2750.0	.69	004	2707.0	.56	096	2500.0	-.46
616	1.7400	-1.49	345	0.6850	.35	504	2745.0	.69	553	2620.0	.36	366	2525.0	-.47

* 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 037.05	--	--	Method 039.01	--	--	Method 065.03	--	--	Method 106.02	--	--	Method 120.00	--
042	2484.5	-.53	164	7.3500	.71	846	2.9275	-.71	021	64.800	-.96	652	1.3350	1.47
508	2477.6	-.59							675	63.900	-1.01	160	1.0846	.11
154	2440.5	-.74	--	Method 039.02	--	--	Method 102.00	--	670	60.010	-1.21	Avg	1.0655	
169	2380.0	-.96	560	13.000	1.84	208	350.72	-.71	227	59.500	-1.23	227	0.9565	-.60
160	2403.0	-1.00	154	9.7000	.43				859	0.8860	-.98			
294	2178.4	-1.80	Avg	8.6717		--	Method 104.03	--	--	Method 106.99	--	--	Method 121.00	--
616	1955.0	-2.74	567	7.9650	-.32	563	3.8158	-.71	563	55.791	.71	160	0.8573	.98
309	26.540 s	-10.78	021	8.1500	-.38	--	Method 105.00	--	--	Method 108.01	--	227	0.8345	.54
			011	7.1488	-.67	160	127.10	.71	096	8.3400	.00	652	0.8250	.18
--	Method 037.99	--	508	6.0663	-1.11	--	Method 105.01	--	--	Method 108.02	--	Avg	0.8204	
846	2710.5	1.05	--	Method 040.00	--	227	164.00	.95	675	13.045	.87	859	0.7650	-1.49
693	2677.5	.96	560	8.2500	.71	Avg	162.02		Avg	9.4625		--	Method 122.00	--
121	2595.9	.65	--	Method 041.00	--	208	160.04	-.77	208	5.8800	-.86	652	2.5900	1.61
Avg	2410.7		508	8897.4 S	4138.69	--	Method 106.00	--	--	Method 109.02	--	Avg	1.6156	
692	2275.0	-.50	021	8.9500	.81	171	74.600	.71	638	1782.5	1.36	227	1.3670	-.41
047	2233.0	-.70	011	8.1945	.50				563	1763.2	1.09	160	1.2943	-.53
043	1972.3	-1.53	Avg	7.2148		--	Method 106.02	--	619	1754.5	.96	859	1.2110	-.67
051	0.2150 S	-8.39	154	4.5000	-1.26	028	124237 s	6775.78	675	1687.1	.20	--	Method 124.00	--
--	Method 038.00	--	--	Method 041.99	--	039	120100 s	6547.26	Avg	1673.6		160	0.3599	1.18
510	6.1000	1.60	563	31.385	.71	160	118.10	2.04	199	1670.0	-.37	Avg	0.2840	
560	5.9450	1.44	--	Method 051.01	--	860	105.68	1.38	227	1655.0	-.91	652	0.2750	-.16
096	5.5000 R	1.11	003	475.00	.71	003	105.31	1.27	610	1585.0	-1.04	859	0.2170	-1.04
693	4.9100	.44	--	Method 054.01	--	638	105.01	1.26	208	1589.8	-1.05	--	Method 124.02	--
029	4.8000	.30	028	284.65 s	7.04	610	96.600	.81	560	1575.0	-1.17	227	0.2740	.00
021	4.7000	.23	218	239.87	1.61	017	82.780 R	.68	--	Method 109.99	--	--	Method 125.00	--
Avg	4.4964		010	232.00	.73	689	91.500	.53	096	1685.0	.71	160	2.6873	.70
038	4.4500	-.07	036	232.14	.67	034	90.200	.44	--	Method 114.01	--	227	2.5775	.58
011	4.0405	-.46	027	228.88	.26	616	87.775	.31	208	4.3350	1.14	859	2.3590	.33
106	3.4700	-1.02	Avg	226.83		619	85.550	.30	Avg	4.3150		Avg	2.0760	
508	3.5338	-1.04	016	225.75	-.13	Avg	82.130		208	81.500	-.30	652	0.6800	-1.60
154	3.0150	-1.48	038	223.65	-.54	199	71.850	-.56	227	4.2950	-.44			
--	Method 038.99	--	047	217.13	-1.21	004	70.340	-.64						
164	4.9000	-.71	001	215.20	-1.45	560	67.350	-.81						
						014	67.480	-.84						
						096	68.020	-.91						

* 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 126.00	--	--	Method 131.02	--	--	Method 137.00	--						
652	1.0700	1.59	227	0.2210	.71	160	0.5976	.80						
Avg	0.7757					Avg	0.5711							
160	0.7198	-.30	--	Method 132.00	--	227	0.5445	-.93						
227	0.6825	-.50	652	0.7550	1.25									
859	0.6305	-.78	227	0.7485	.72	--	Method 138.00	--						
			Avg	0.7393		652	0.9500	1.42						
--	Method 127.00	--	160	0.7331	-.40	227	0.8255	.25						
160	0.4287	.93	859	0.7205	-1.11	Avg	0.7985							
652	0.4250	.83				160	0.7159	-.77						
Avg	0.3934		--	Method 133.00	--	859	0.7025	-.90						
227	0.3775	-.43	227	1.1060	.69									
859	0.3425	-1.33	160	1.1074	.64									
			Avg	0.9828										
--	Method 128.00	--	652	0.7350	-1.27									
227	0.6515	1.58				--	Method 134.00	--						
Avg	0.5896					160	0.8174	.78						
652	0.5750	-.53	160	0.8174	.78	227	0.7845	.61						
160	0.5663	-.60	227	0.7845	.61	859	0.7055	.20						
859	0.5655	-.61	Avg	0.6681										
			652	0.3650	-1.58									
--	Method 129.00	--				--	Method 135.00	--						
652	1.4450	.90				160	0.6659	.97						
227	1.4645	.80				652	0.6450	.57						
160	1.4425	.31				227	0.6375	.15						
Avg	1.4314					Avg	0.6324							
859	1.3735	-1.40				859	0.5810	-1.49						
--	Method 130.00	--				--	Method 136.00	--						
160	0.7712	1.13				859	0.1565	.71						
227	0.7415	.73												
Avg	0.7074					--	Method 136.01	--						
652	0.6750	-.58				160	0.2187	1.16						
859	0.6420	-1.16				Avg	0.1979							
						227	0.1770	-.39						
--	Method 131.00	--												
160	0.2860	1.22												
Avg	0.2325													
652	0.2200	-.36												
859	0.1915	-.93												

* 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	8	9.7887	27.70	0.08	011.01	45	0.1149	1.04	0.23
001.03	3	0.0000	1.11	0.10	011.99	3	-1.5866	2.88	0.15
001.07	24	0.0465	1.00	0.29	012.00	4	0.0000	0.91	0.51
001.99	10	0.2325	1.70	0.31	013.02	13	-0.1815	1.16	0.26
002.00	2	0.0000	1.22	0.06	013.10	9	-0.0078	0.97	0.19
002.01	5	0.0000	0.98	0.35	015.00	12	-0.3201	1.46	0.21
002.02	2	0.0000	1.06	0.43	016.02	2	0.0000	1.21	0.14
002.04	2	0.0000	1.20	0.17	017.00	9	-0.3229	2.21	0.26
002.05	11	4.9587	16.46	0.36	017.99	2	20.9934	29.69	1.44
002.06	47	0.1123	1.14	0.38	018.02	5	0.0000	0.85	0.57
002.08	4	0.0000	1.08	0.09	019.00	11	0.4037	1.57	0.20
002.10	2	0.0000	0.01	0.87	019.01	49	0.1492	1.96	0.54
002.11	2	0.0000	0.00	0.00	019.03	5	0.0000	1.05	0.13
002.99	4	0.0000	1.05	0.23	019.05	39	-0.1528	1.12	0.66
003.00	11	-0.5158	1.95	0.34	019.08	5	0.0000	1.01	0.29
003.06	12	0.0000	1.01	0.16	019.09	25	-0.0044	0.96	0.44
003.09	8	0.0000	1.03	0.07	019.99	8	-0.4318	1.54	0.22
003.10	13	-0.1576	1.13	0.16	020.00	3	0.0000	0.80	0.64
003.11	2	0.0000	1.22	0.04	020.01	9	-0.7198	2.34	0.30
003.12	2	0.0000	1.14	0.32	020.99	2	0.0000	1.22	0.06
003.13	2	0.0000	1.01	0.49	021.01	5	0.6395	1.71	0.28
003.14	8	0.0000	1.01	0.21	021.02	14	0.3790	1.65	0.48
003.99	2	0.0000	1.03	0.47	021.99	5	0.2380	1.06	0.57
004.00	12	1.0065	3.03	0.34	022.01	39	-0.5165	3.97	0.30
004.06	12	0.3219	1.26	0.26	022.03	29	0.0014	0.95	0.40
004.07	14	-0.0392	0.98	0.21	022.05	27	-0.2570	1.31	0.61
004.11	2	0.0000	1.22	0.00	022.99	8	0.0808	0.96	0.51
004.99	2	0.0000	0.00	0.00	025.01	20	-0.0345	2.08	0.14
005.00	79	-0.8390	2.41	0.35	025.03	28	0.2088	1.51	0.27
005.11	3	-102.530	90.98	0.61	025.05	22	-0.3917	1.88	0.25
005.99	11	-0.0424	0.93	0.18	025.99	2	0.0000	1.07	0.42
008.02	5	0.0000	1.06	0.10	026.99	3	0.0000	1.11	0.08
008.08	7	0.0000	1.03	0.13	027.01	42	0.0688	1.21	0.27
008.99	3	0.0000	0.96	0.47	027.03	32	-0.2638	1.53	0.23
009.07	4	0.0000	1.06	0.16	027.05	25	0.0787	0.98	0.55
009.09	7	0.1089	1.00	0.18	027.99	7	-0.3787	1.27	0.56
009.99	2	0.0000	1.14	0.32	028.01	35	0.1347	1.18	0.30
010.11	2	0.0000	1.21	0.15	028.03	29	0.0010	1.46	0.30
010.99	10	0.0000	1.03	0.06	028.05	26	-0.4807	1.86	0.35

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
028.99	7	0.0000	0.97	0.36	122.00	4	0.0000	1.08	0.04
031.01	46	-0.4508	2.01	0.21	124.00	3	0.0000	1.12	0.05
031.02	5	0.0000	1.06	0.08	125.00	4	0.0000	1.08	0.02
031.03	7	0.0000	0.82	0.59	126.00	4	0.0000	1.08	0.06
031.05	62	0.0257	1.14	0.27	127.00	4	0.0000	1.07	0.09
031.06	2	-1.8267	2.58	7.43	128.00	4	0.0000	1.05	0.20
031.99	9	0.5408	1.87	0.30	129.00	4	0.0000	0.96	0.44
032.01	34	-0.1947	1.21	0.23	130.00	4	0.0000	1.05	0.21
032.02	10	-0.5388	1.92	0.45	131.00	3	0.0000	1.10	0.15
032.05	58	-0.0244	1.06	0.34	132.00	4	0.0000	0.90	0.52
032.99	3	0.0000	1.00	0.41	133.00	3	0.0000	1.10	0.17
033.00	24	-1.8746	4.69	0.16	134.00	4	0.0000	1.08	0.04
033.01	30	15.7445	87.18	0.65	135.00	4	0.0000	1.05	0.23
033.03	5	-0.4898	2.26	0.10	136.01	2	0.0000	0.54	0.78
033.99	9	-5.8850	7.23	0.10	137.00	2	0.0000	1.07	0.42
034.04	7	0.2402	1.15	0.14	138.00	3	0.2998	1.10	0.06
034.05	5	-0.9709	2.36	0.13					
034.99	5	-1.3698	3.19	0.20					
035.00	28	-0.2796	2.59	0.23					
035.01	3	0.0000	0.29	0.88					
035.03	54	-0.1092	1.38	0.19					
035.05	12	-0.2606	1.52	0.41					
035.99	6	0.0000	0.98	0.34					
036.03	23	-0.0743	0.97	0.15					
037.01	38	-0.1699	2.95	0.29					
037.03	28	-0.0066	1.53	0.40					
037.05	26	-0.4146	2.32	0.21					
037.99	7	-1.1990	3.31	0.17					
038.00	11	0.0907	1.01	0.21					
039.02	6	0.0000	1.02	0.22					
041.00	4	1034.412	2068.82	46.43					
054.01	9	0.7821	2.52	0.25					
105.01	2	0.0000	0.95	0.55					
106.02	22	605.2364	1959.27	69.24					
108.02	2	0.0000	1.21	0.14					
109.02	9	0.0000	0.94	0.40					
114.01	2	0.0000	0.26	0.85					
120.00	4	0.0000	1.08	0.08					
121.00	4	0.0000	1.05	0.23					