

MAGRUDER - Fertilizer Check Sample No. - 200108 Grade 6-6-18

- Pass 1 Results for 86 Labs - - Pass 2 Results for 85 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, MgO Distillation	920.03	001.10	13	3.1253	0.1028	0.0324	12	3.1303	0.1033	0.0226
Ammoniacal Nitrogen, Other		001.99	9	3.1267	0.0679	0.0356	9	3.1267	0.0679	0.0356
Method Group 001.XX PCT			22	3.1258	0.0893	0.0337	21	3.1287	0.0889	0.0281
Nitrate Nitrogen, Jones Modified	930.02	002.20	4	3.0442	0.2038	0.0327	4	3.0442	0.2038	0.0327
Nitrate Nitrogen, Other		002.99	13	2.9734	0.1313	0.0336	12	2.9662	0.1327	0.0247
Method Group 002.XX PCT			17	2.9901	0.1510	0.0334	16	2.9857	0.1537	0.0267
Nitrogen From Urea, Other		005.99	1	45.864	0.0448	0.0633	1	45.864	0.0448	0.0633
Percent Biuret, Spec (as Biuret)	960.04	008.10	1	1.1597	0.0033	0.0046	1	1.1597	0.0033	0.0046
Ammon & Nitrate N, Devarda	892.01	009.10	8	6.1940	0.0740	0.0155	8	6.1940	0.0740	0.0155
Total Nitrogen, Modified Comprehensive	978.02	010.11	5	6.2030	0.0566	0.0420	5	6.2030	0.0566	0.0420
Total Nitrogen, Salicylic	955.04D	010.12	6	6.2220	0.1152	0.0343	6	6.2220	0.1152	0.0343
Total Nitrogen, Comprehensive	970.02	010.17	1	6.3838	0.0509	0.0720	1	6.3838	0.0509	0.0720
Total Nitrogen, Combustion		010.60	47	6.2642	0.1256	0.0677	45	6.2630	0.1236	0.0580
Total Nitrogen, Other		010.99	6	6.1395	0.1266	0.0203	6	6.1395	0.1266	0.0203
Method Group 010.XX PCT			65	6.2459	0.1261	0.0583	62	6.2455	0.1246	0.0487
Total Phosphate, Grav Quimociac	962.02	020.10	7	5.6836	0.0678	0.0329	7	5.6836	0.0678	0.0329
Total Phosphate, Spectrometric	958.01	020.20	17	5.6568	0.1035	0.0405	16	5.6519	0.0999	0.0274
Total Phosphate, Alka. Quimociac	969.02	020.30	1	5.6375	0.0054	0.0076	1	5.6375	0.0054	0.0076
Total Phosphate, Automated	978.01	020.40	7	5.6386	0.1268	0.0714	6	5.6083	0.0969	0.0433
Total Phosphate, ICP		020.50	4	5.6675	0.0696	0.0400	4	5.6675	0.0696	0.0400
Total Phosphate, Other		020.99	3	5.6661	0.1978	0.0851	3	5.6661	0.1978	0.0851
Method Group 020.XX PCT			39	5.6596	0.1062	0.0472	36	5.6475	0.0951	0.0331
Insoluble Phosphate, Grav Quimociac	963.03C	030.10	2	0.0925	0.0096	0.0050	2	0.0925	0.0096	0.0050
Insoluble Phosphate, Spectrometric	963.03C	030.20	4	0.1100	0.0857	0.0300	4	0.1100	0.0857	0.0300
Insoluble Phosphate, Automated	978.01	030.40	2	0.2300	0.0424	0.0700	2	0.2300	0.0424	0.0700
Method Group 030.XX PCT			8	0.1356	0.0838	0.0338	8	0.1356	0.0838	0.0338
InDir Available Phosphate, Grav Quim	960.02	040.10	1	5.6000	0.0424	0.0600	1	5.6000	0.0424	0.0600
InDir Available Phosphate, Spectrometri	960.02	040.20	3	5.5000	0.0569	0.0133	3	5.5000	0.0569	0.0133
InDir Available Phosphate, Automated	960.02	040.40	4	5.3750	0.0929	0.0800	4	5.3750	0.0929	0.0800
InDir Available Phosphate, Other		040.99	1	5.4800	0.0283	0.0400	1	5.4800	0.0283	0.0400
Method Group 040.XX PCT			9	5.4533	0.1045	0.0511	9	5.4533	0.1045	0.0511
Dir Available Phosphate, Grav Quim	960.03E	041.10	15	5.5280	0.1575	0.0380	15	5.5280	0.1575	0.0380
Dir Available Phosphate, Spectrometric	960.03D	041.20	5	5.4051	0.1995	0.0492	5	5.4051	0.1995	0.0492
Dir Available Phosphate, Alka. Quim	960.03C	041.30	1	5.6000	0.0990	0.1400	1	5.6000	0.0990	0.1400
Dir Available Phosphate, Automated	978.01	041.40	4	5.4794	0.1689	0.0488	4	5.4794	0.1689	0.0488
Dir Available Phosphate, ICP		041.50	8	5.4200	0.1788	0.0538	8	5.4200	0.1788	0.0538
Dir Available Phosphate, EDTA Extract	993.01	041.60	11	5.6138	0.1172	0.0462	11	5.6138	0.1172	0.0462
Dir Available Phosphate, Other		041.99	1	5.8200	0.0707	0.1000	1	5.8200	0.0707	0.1000
Method Group 041.XX PCT			45	5.5199	0.1759	0.0487	45	5.5199	0.1759	0.0487

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Water Soluble Phosphate, Spectrometric	970.01	048.20	2	3.7675	0.1127	0.0050	2	3.7675	0.1127	0.0050
Water Soluble Phosphate, ICP		048.50	1	3.7500	0.0424	0.0600	1	3.7500	0.0424	0.0600
Water Soluble Phosphate, Other		048.99	3	3.6417	0.0799	0.0633	3	3.6417	0.0799	0.0633
Method Group 048.XX PCT			6	3.7017	0.1024	0.0433	6	3.7017	0.1024	0.0433
Soluble Potash, STPB Oxalate	958.02	050.00	18	18.091	0.2113	0.0717	17	18.093	0.2136	0.0565
Soluble Potash, STPB Citrate	969.04	050.10	1	18.190	0.0000	0.0000	1	18.190	0.0000	0.0000
Soluble Potash, AA (Oxalate)		050.30	9	18.074	0.6124	0.1401	8	18.097	0.6400	0.0889
Soluble Potash, ICP (Oxalate)		050.50	3	18.080	0.4792	0.1200	3	18.080	0.4792	0.1200
Soluble Potash, ICP (Citrate)		050.51	9	17.882	0.6882	0.2017	9	17.882	0.6882	0.2017
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	6	18.213	0.2023	0.1267	6	18.213	0.2023	0.1267
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	7	18.337	0.3393	0.0771	7	18.337	0.3393	0.0771
Soluble Potash, Other		050.99	19	18.131	0.4589	0.1170	17	18.094	0.4601	0.0813
Method Group 050.XX PCT			74	18.079	0.4756	0.1180	69	18.075	0.4757	0.0914
Free Water, Vacuum Oven	965.08B	060.00	5	0.4723	0.0521	0.0176	5	0.4723	0.0521	0.0176
Acid Soluble Calcium, AA	945.04	101.00	16	5.1659	0.2485	0.0967	15	5.1697	0.2516	0.0779
Acid Soluble Calcium, ICP		101.30	19	5.1652	0.2438	0.0661	18	5.1752	0.2439	0.0526
Acid Soluble Calcium, Titrimetric	945.03	101.70	1	5.4220	0.0554	0.0783	1	5.4220	0.0554	0.0783
Acid Soluble Calcium, Other		101.99	1	5.0100	0.1980	0.2800	1	5.0100	0.1980	0.2800
Method Group 101.XX PCT			37	5.1682	0.2437	0.0855	34	5.1800	0.2456	0.0645
Acid Soluble Magnesium, AA	984.01	121.00	23	4.5399	0.2912	0.0730	23	4.5399	0.2912	0.0730
Acid Soluble Magnesium, ICP		121.30	18	4.5287	0.2982	0.0500	17	4.4897	0.2563	0.0412
Acid Soluble Magnesium, Titrimetric ...	964.01	121.70	2	4.7215	0.0862	0.0068	2	4.7215	0.0862	0.0068
Method Group 121.XX PCT			43	4.5436	0.2888	0.0603	40	4.5257	0.2750	0.0487
Water Soluble Magnesium, AA		131.00	6	4.2617	0.3058	0.0100	6	4.2617	0.3058	0.0100
Water Soluble Magnesium, ICP		131.30	3	3.9283	0.5953	0.0167	3	3.9283	0.5953	0.0167
Water Soluble Magnesium, Other		131.99	1	3.1150	0.1909	0.2700	1	3.1150	0.1909	0.2700
Method Group 131.XX PCT			10	4.0470	0.5237	0.0380	9	4.1506	0.4369	0.0122
Sulfur, Gravimetric	980.02a	144.01	11	13.961	0.4015	0.0906	11	13.961	0.4015	0.0906
Sulfur, Gravimetric	980.02b	144.02	1	14.525	0.0212	0.0300	1	14.525	0.0212	0.0300
Sulfur, Gravimetric	980.02c	144.03	1	13.725	0.0354	0.0500	1	13.725	0.0354	0.0500
Sulfur, Turbidimetric	63.845	144.50	1	11.515	0.5445	0.7700	1	11.515	0.5445	0.7700
Sulfur, Other		144.99	21	13.791	0.6348	0.1346	19	13.765	0.6543	0.0840
Method Group 144.XX PCT			36	13.740	0.7593	0.1347	33	13.790	0.6772	0.0863
Arsenic, ICP		151.30	5	5.3249	4.2379	0.3510	5	5.3249	4.2379	0.3510
Arsenic, Other		151.99	2	4.5025	1.1671	1.5550	2	4.5025	1.1671	1.5550
Method Group 151.XX PPM			7	5.0899	3.5912	0.6950	6	5.1624	3.8526	0.3425
Acid Soluble Boron, Spectrometric	982.01	165.00	10	0.0432	0.0062	0.0010	10	0.0432	0.0062	0.0010
Acid Soluble Boron, Other		165.99	11	0.0447	0.0057	0.0029	11	0.0447	0.0057	0.0029
Method Group 165.XX PCT			21	0.0440	0.0059	0.0020	21	0.0440	0.0059	0.0020

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Water Soluble Boron, Other		171.99	1	0.0428	0.0003	0.0004	1	0.0428	0.0003	0.0004
Cadmium, Atomic Absorption		181.00	4	4.0588	1.0672	0.1525	3	3.9950	1.2450	0.0367
Cadmium, ICP		181.30	5	2.8018	0.6210	0.3776	5	2.8018	0.6210	0.3776
Cadmium, Other		181.99	1	3.1500	0.2121	0.3000	1	3.1500	0.2121	0.3000
Method Group 181.XX PPM			10	3.3394	0.9892	0.2798	10	3.3394	0.9892	0.2798
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	14	2.1301	0.1184	0.0181	14	2.1301	0.1184	0.0181
Water Soluble Chlorine, Other		190.99	4	2.1397	0.0470	0.0233	4	2.1397	0.0470	0.0233
Method Group 190.XX PCT			19	2.1429	0.1140	0.0251	17	2.1515	0.0714	0.0198
Chromium, ICP		191.30	4	42.654	7.6513	3.2388	4	42.654	7.6513	3.2388
Acid Soluble Cobalt, AA		202.00	2	12.613	5.6581	0.5105	2	12.613	5.6581	0.5105
Acid Soluble Cobalt, ICP	965.11	202.30	7	8.6307	2.4430	0.7671	6	8.6192	2.5971	0.4617
Acid Soluble Cobalt, Other		202.99	1	15.000	0.0000	0.0000	1	15.000	0.0000	0.0000
Method Group 202.XX PPM			11	9.1537	4.6774	0.5901	10	9.1990	4.8968	0.3891
Acid Soluble Copper, Atomic Absorption	975.01	221.00	5	0.0062	0.0007	0.0002	5	0.0062	0.0007	0.0002
Acid Soluble Copper, ICP		221.30	9	0.0057	0.0006	0.0005	8	0.0057	0.0006	0.0003
Acid Soluble Copper, Other		221.99	2	0.0064	0.0011	0.0007	2	0.0064	0.0011	0.0007
Method Group 221.XX PCT			16	0.0060	0.0007	0.0005	15	0.0060	0.0007	0.0003
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	19	0.2269	0.0412	0.0046	18	0.2283	0.0417	0.0038
Acid Soluble Iron, ICP		241.30	21	0.2198	0.0335	0.0098	20	0.2185	0.0334	0.0077
Method Group 241.XX PCT			40	0.2231	0.0373	0.0073	38	0.2233	0.0375	0.0058
Lead, Atomic Absorption		251.00	1	10.434	0.0488	0.0690	1	10.434	0.0488	0.0690
Lead, ICP		251.30	5	11.874	0.8807	0.3990	5	11.874	0.8807	0.3990
Lead, Other		251.99	3	15.385	2.5101	1.5833	3	15.385	2.5101	1.5833
Method Group 251.XX PPM			10	13.371	2.8650	1.2314	9	12.884	2.4037	0.7571
Acid Soluble Manganese, AA	972.02a	261.00	18	0.1614	0.0105	0.0060	17	0.1604	0.0094	0.0051
Acid Soluble Manganese, AA	972.02b	261.11	2	0.1535	0.0038	0.0030	2	0.1535	0.0038	0.0030
Acid Soluble Manganese, ICP	972.02a	261.30	18	0.1571	0.0142	0.0040	19	0.1552	0.0159	0.0041
Acid Soluble Manganese, Other		261.99	2	0.1608	0.0116	0.0055	2	0.1608	0.0116	0.0055
Method Group 261.XX PCT			40	0.1591	0.0122	0.0049	39	0.1585	0.0118	0.0045
Water Soluble Manganese, Atomic Abs. ..	972.03	271.00	2	0.0575	0.0029	0.0000	2	0.0575	0.0029	0.0000
Water Soluble Manganese, ICP	972.03	271.30	2	0.0573	0.0142	0.0015	2	0.0573	0.0142	0.0015
Method Group 271.XX PCT			4	0.0574	0.0095	0.0008	4	0.0574	0.0095	0.0008
Mercury, Atomic Absorption		281.00	1	0.0710	0.0014	0.0020	1	0.0710	0.0014	0.0020
Mercury, ICP		281.30	1	0.0600	0.0141	0.0200	1	0.0600	0.0141	0.0200
Mercury, Other		281.99	2	0.0797	0.0182	0.0062	2	0.0797	0.0182	0.0062
Method Group 281.XX PPM			4	0.0726	0.0157	0.0086	4	0.0726	0.0157	0.0086
Molybdenum, Atomic Absorption		289.00	1	3.5555	0.0180	0.0255	1	3.5555	0.0180	0.0255
Molybdenum, ICP		289.30	5	4.9600	2.1709	0.1760	5	4.9600	2.1709	0.1760
Molybdenum, Other		289.99	1	5.3500	0.2121	0.3000	1	5.3500	0.2121	0.3000

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Method Group 289.XX PPM			7	4.8151	1.8896	0.1722	7	4.8151	1.8896	0.1722
Nickel, Atomic Absorption		291.00	1	20.301	0.0686	0.0970	1	20.301	0.0686	0.0970
Nickel, ICP		291.30	6	22.079	5.5436	0.5450	6	22.079	5.5436	0.5450
Nickel, Other		291.99	2	22.900	6.6818	2.5000	2	22.900	6.6818	2.5000
Method Group 291.XX PPM			9	22.064	5.3193	0.9297	8	22.659	5.3038	0.5459
Selenium, ICP		301.30	1	3.2000	0.1414	0.2000	1	3.2000	0.1414	0.2000
Selenium, Other		301.99	1	0.3600	0.1414	0.2000	1	0.3600	0.1414	0.2000
Method Group 301.XX PPM			2	1.7800	1.6437	0.2000	2	1.7800	1.6437	0.2000
Sodium, Atomic Absorption	983.04	311.00	1	0.4000	0.0000	0.0000	1	0.4000	0.0000	0.0000
Sodium, Other		311.99	5	0.4464	0.0626	0.0103	5	0.4464	0.0626	0.0103
Method Group 311.XX PCT			6	0.4387	0.0595	0.0086	6	0.4387	0.0595	0.0086
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	22	0.1480	0.0090	0.0039	21	0.1479	0.0089	0.0031
Acid Soluble Zin, ICP		321.30	22	0.1476	0.0122	0.0034	21	0.1475	0.0124	0.0029
Acid Soluble Zinc, Other		321.99	2	0.1507	0.0107	0.0002	2	0.1507	0.0107	0.0002
Method Group 321.XX PCT			46	0.1479	0.0106	0.0035	44	0.1479	0.0107	0.0029
Water Soluble Zinc, ICP		325.30	1	0.0265	0.0035	0.0050	1	0.0265	0.0035	0.0050

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 001.10	--	--	Method 001.XX	--	--	Method 002.99	--	--	Method 009.10	--	--	Method 010.60	--
372	3.3300	1.94	289	3.1600	.42	247	2.8000	-1.26	030	6.1000	-1.27	394	6.3600	.85
320	3.2350	1.10	396	3.1500	.24	251	2.7200	-1.86	309	5.7250	s -6.35	096	6.3500	.71
234	3.2100	.78	416	3.1478	.21							057	6.2750	.69
029	3.1750	.44	200	3.1300	.11	--	Method 002.XX	--	--	Method 010.11	--	369	6.2900	.61
416	3.1478	.17	Avg	3.1287		029	3.2400	1.66	322	6.8675	S 11.74	041	6.3300	.57
Avg	3.1303		397	3.1258	-.03	395	3.1800	1.26	029	6.2700	1.18	361	6.3250	.54
397	3.1258	-.04	351	3.1140	-.17	234	3.1400	1.04	414	6.2350	.84	251	6.3150	.51
200	3.1300	-.10	405	3.0900	-.45	392	3.1000	.74	Avg	6.2030		027	6.2950	.45
351	3.1140	-.16	028	3.0850	-.52	300	3.0600	R .66	028	6.1950	-.17	247	6.2650	.45
028	3.0850	-.46	193	3.0850	-.52	360	3.0850	.65	148	6.1700	-.61	377	6.3000	.34
415	3.0460	-.83	415	3.0460	-.94	396	3.0800	.62	363	6.1450	-1.41	330	6.3000	.30
395	3.0400	-.87	395	3.0400	-1.00	415	3.0617	.49	288	3.0900	S -55.02	325	6.2950	.29
251	3.0650	R -0.96	030	3.0500	-1.05	397	2.9898	.09				401	6.2850	.27
309	2.9250	-2.00	251	3.0650	R -1.11	288	2.9950	.07	--	Method 010.12	--	070	6.2900	.23
			363	3.0300	-1.12	Avg	2.9857		162	6.3500	1.19	040	6.2850	.18
--	Method 001.99	--	309	2.9250	-2.31	394	2.9750	-.18	137	6.3150	.82	356	6.2650	.04
247	3.4300	s 4.62	409	2.1350	s -11.20	030	2.9000	-.56	185	6.3000	.68	028	6.2650	.04
300	3.1950	1.29				289	2.9000	-.65	Avg	6.2220		Avg	6.2630	
394	3.2000	1.08	--	Method 002.20	--	405	2.8700	-.76	351	6.1920	-.28	106	6.2600	-.02
096	3.1800	.79	029	3.2400	.96	247	2.8000	-1.21	326	6.1150	-.94	136	6.2450	-.19
289	3.1600	.57	234	3.1400	.51	028	2.7350	-1.63	102	6.0600	-1.41	296	6.2350	-.23
396	3.1500	.34	415	3.0617	.09	251	2.7200	-1.73				230	6.2600	-.24
Avg	3.1267		Avg	3.0442					--	Method 010.17	--	360	6.2500	-.26
405	3.0900	-.56	028	2.7350	-1.52	--	Method 005.99	--	415	6.3838	-.71	049	6.2250	-.37
193	3.0850	-.65				415	45.864	.71				055	6.2200	-.42
030	3.0500	-1.35	--	Method 002.99	--				--	Method 010.60	--	409	6.1950	-.59
363	3.0300	-1.43	395	3.1800	1.61	--	Method 008.10	--	402	6.7450	s 5.09	262	6.1900	-.59
409	2.1350	s -14.63	392	3.1000	1.01	415	1.1597	.71	025	6.7750	S 4.14	023	6.1900	-.67
			360	3.0850	.90				095	6.5500	2.33	292	6.1650	-.95
--	Method 001.XX	--	300	3.0600	R .88	--	Method 009.10	--	324	6.4350	1.39	035	6.1800	-1.05
247	3.4300	s 3.51	396	3.0800	.86	200	6.3200	1.71	043	6.3950	1.32	009	6.1300	-1.08
372	3.3300	2.27	288	2.9950	.22	392	6.2500	.76	381	6.3630	R 1.31	234	6.2200	R -1.34
320	3.2350	1.30	397	2.9898	.20	396	6.2350	.56	037	6.4200	1.28	389	6.1000	-1.38
300	3.1950	.97	394	2.9750	.20	395	6.2200	.35	029	6.4150	1.24	232	6.0900	-1.40
234	3.2100	.92	Avg	2.9662		Avg	6.1940		007	6.4000	1.11	334	6.0830	-1.46
394	3.2000	.80	030	2.9000	-.50	090	6.1750	-.42	131	6.3700	1.03	024	6.0850	-1.47
096	3.1800	.58	289	2.9000	-.63	416	6.1363	-.79	390	6.3450	1.02	142	5.9950	-2.17
029	3.1750	.52	405	2.8700	-.73	397	6.1156	-1.08	372	6.3700	.87	233	5.9450	-2.58

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 010.60	--	--	Method 010.XX	--	--	Method 010.XX	--	--	Method 020.20	--	--	Method 020.XX	--
376	5.6500 s	-4.98	137	6.3150	.57	153	6.0881	-1.26	309	5.6250	-.37	376	5.9250	2.94
383	5.5350 s	-5.90	027	6.2950	.54	234	6.2200 R	-1.30	334	5.5850	-.67	307	5.8600 R	2.39
393	4.8190 s	-11.68	247	6.2650	.47	334	6.0830	-1.30	106	5.5800	-.72	035	5.8200 R	2.21
			377	6.3000	.47	024	6.0850	-1.32	356	5.5750	-.85	324	5.7350 R	1.61
--	Method 010.99	--	330	6.3000	.44	102	6.0600	-1.49	397	5.5601	-.92	162	5.7700	1.29
211	6.8800 S	5.85	185	6.3000	.44	177	6.0390	-1.66	232	5.4800	-1.72	372	5.7450	1.03
362	6.2850	1.17	325	6.2950	.42	142	5.9950	-2.01	383	4.9800 s	-6.75	402	5.7300	.92
300	6.2750	1.07	362	6.2850	.38	405	5.9600	-2.30				300	5.7300	.89
307	6.1900	.41	401	6.2850	.38	233	5.9450	-2.41	--	Method 020.30	--	142	5.7250	.83
Avg	6.1395		070	6.2900	.37	376	5.6500 s	-4.80	416	5.6375	.71	389	5.7150	.76
153	6.0881	-.41	040	6.2850	.32	383	5.5350 s	-5.71	Avg	5.6375		292	5.7100	.67
177	6.0390	-.79	230	6.2600	.27	393	4.8190 s	-11.45	330	5.4850 S	-56.89	095	5.7050	.66
405	5.9600	-1.43	360	6.2500	.24	288	3.0900 s	-25.32				392	5.7100	.66
			300	6.2750	.24				--	Method 020.40	--	090	5.7000	.64
--	Method 010.XX	--	029	6.2700	.20	--	Method 020.10	--	035	5.8200 R	2.51	363	5.7000	.55
402	6.7450 s	5.16	028	6.2650	.16	162	5.7700	1.28	142	5.7250	1.21	369	5.6600	.54
211	6.8800 s	5.09	356	6.2650	.16	300	5.7300	.75	394	5.6750	.78	153	5.6982	.54
322	6.8675 s	4.99	106	6.2600	.12	090	5.7000	.50	320	5.6350	.28	394	5.6750	.47
025	6.7750 s	4.25	Avg	6.2455		095	5.7050	.49	409	5.6150	.09	414	5.6700	.39
095	6.5500	2.46	296	6.2350	-.09	Avg	5.6836		Avg	5.6083		247	5.6600	.25
324	6.4350	1.52	136	6.2450	-.12	414	5.6700	-.49	193	5.5500	-.79	361	5.6500	.21
043	6.3950	1.42	049	6.2250	-.26	148	5.6500	-.52	289	5.4500	-1.65	362	5.6600	.13
037	6.4200	1.41	414	6.2350	-.29	395	5.5600	-1.82				148	5.6500	.11
381	6.3630 R	1.39	055	6.2200	-.32				--	Method 020.50	--	Avg	5.6475	
029	6.4150	1.37	028	6.1950	-.41	--	Method 020.20	--	402	5.7300	1.00	416	5.6375	-.11
007	6.4000	1.24	351	6.1920	-.44	381	6.4400 s	9.68	389	5.7150	.77	320	5.6350	-.14
415	6.3838	1.15	262	6.1900	-.45	376	5.9250	2.76	Avg	5.6675		200	5.6350	-.21
131	6.3700	1.15	409	6.1950	-.45	324	5.7350 R	1.50	361	5.6500	-.38	096	5.6200	-.29
390	6.3450	1.10	307	6.1900	-.45	372	5.7450	.93	396	5.5750	-1.33	409	5.6150	-.35
372	6.3700	1.00	023	6.1900	-.55	292	5.7100	.59				309	5.6250	-.35
394	6.3600	.97	148	6.1700	-.61	392	5.7100	.58	--	Method 020.99	--	334	5.5850	-.66
162	6.3500	.93	292	6.1650	-.83	369	5.6600	.51	307	5.8600	1.06	106	5.5800	-.71
096	6.3500	.84	363	6.1450	-.92	363	5.7000	.48	153	5.6982	.17	396	5.5750	-.76
057	6.2750	.72	009	6.1300	-.93	247	5.6600	.22	Avg	5.6661		356	5.5750	-.85
041	6.3300	.70	035	6.1800 R	-.96	362	5.6600	.08	405	5.4400	-1.16	395	5.5600	-.92
361	6.3250	.67	326	6.1150	-1.05	Avg	5.6519					397	5.5601	-.92
369	6.2900	.67	389	6.1000	-1.23	200	5.6350	-.23	--	Method 020.XX	--	193	5.5500	-1.15
251	6.3150	.62	232	6.0900	-1.25	096	5.6200	-.32	381	6.4400 s	10.21	232	5.4800	-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 020.XX	--	--	Method 040.20	--	--	Method 041.10	--	--	Method 041.60	--	--	Method 041.XX	--
289	5.4500	-2.09	106	5.5050	.12	040	5.4200	-.69	262	5.8800	2.30	029	5.5300	.08
405	5.4400	-2.22	Avg	5.5000		131	5.4200	-.70	296	5.6900	.66	029	5.5250	.04
330	5.4850	s -3.27	096	5.4350	-1.17	009	5.3900	-.90	377	5.6500	.53	Avg	5.5199	
383	4.9800	s -7.04	--	Method 040.40	--	211	5.3850	-.91	043	5.6200	.43	397	5.5168	-.08
--	Method 030.10	--	394	5.4900	1.51	326	5.3550	-1.11	028	5.6350	.19	037	5.5150	-.09
090	0.1000	.78	409	5.3800	.54	136	4.2850	s -7.89	288	5.6200	.18	296	5.5150	-.09
Avg	0.0925		Avg	5.3750		--	Method 041.20	--	397	5.6266	.14	322	5.4968	-.15
320	0.0850	-.94	193	5.3250	-.60	362	5.6250	1.12	Avg	5.6138		177	5.4835	-.22
--	Method 030.20	--	289	5.3050	-.76	397	5.5168	.56	177	5.5890	-.21	351	5.4665	-.30
247	0.1800	.94	--	Method 040.99	--	030	5.4500	.34	037	5.5150	-.85	070	5.4650	-.32
096	0.1850	.89	247	5.4800	-.71	Avg	5.4051		351	5.4665	-1.26	095	5.4600	-.44
Avg	0.1100		--	Method 040.XX	--	363	5.3600	-.25	095	5.4600	-1.38	055	5.4550	-.45
106	0.0750	-.41	090	5.6000	1.43	415	5.0736	-1.66	--	Method 041.99	--	030	5.4500	-.49
395	0.0000	-1.28	395	5.5600	1.02	--	Method 041.30	--	401	5.8200	-.71	040	5.4200	-.57
--	Method 030.40	--	394	5.4900	.84	260	5.6000	.71	--	Method 041.XX	--	131	5.4200	-.58
409	0.2350	1.07	106	5.5050	.50	--	Method 041.40	--	007	6.1000	s 3.35	131	5.4050	-.67
Avg	0.2300		247	5.4800	.32	025	6.0900	s 3.62	025	6.0900	s 3.24	325	5.4000	-.68
193	0.2250	-.60	Avg	5.4533		049	5.7000	1.35	137	5.9500	2.45	009	5.3900	-.76
--	Method 030.XX	--	096	5.4350	-.23	029	5.5300	.31	262	5.8800	2.06	211	5.3850	-.77
409	0.2350	1.30	409	5.3800	-.85	Avg	5.4794		401	5.8200	1.73	363	5.3600	-.92
193	0.2250	1.11	193	5.3250	-1.25	131	5.4050	-.46	023	5.7950	1.57	360	5.3650	-.92
247	0.1800	.71	289	5.3050	-1.42	027	5.2825	-1.17	041	5.7600	1.38	326	5.3550	-.95
096	0.1850	.62	--	Method 041.10	--	--	Method 041.50	--	049	5.7000	1.08	251	5.3250	-1.15
Avg	0.1356		137	5.9500	2.68	007	6.1000	s 3.84	296	5.6900	.97	027	5.2825	-1.35
090	0.1000	-.43	041	5.7600	1.49	023	5.7950	2.10	041	5.7600	1.38	102	5.2750	-1.42
320	0.0850	-.61	028	5.6500	.78	361	5.5250	.59	049	5.7000	1.08	393	5.2100	-1.76
106	0.0750	-.73	414	5.5350	.35	070	5.4650	.27	296	5.6900	.97	415	5.0736	-2.54
395	0.0000	-1.62	057	5.5800	.34	Avg	5.4200		377	5.6500	.79	136	4.2850	s -7.02
--	Method 040.10	--	Avg	5.5280		325	5.4000	-.13	028	5.6500	.74	--	Method 048.20	--
090	5.6000	.71	029	5.5250	-.04	360	5.3650	-.40	028	5.6350	.66	395	3.8650	.87
--	Method 040.20	--	296	5.5150	-.13	251	5.3250	-.61	043	5.6200	.64	Avg	3.7675	
395	5.5600	1.05	322	5.4968	-.21	102	5.2750	-.86	362	5.6250	.63	362	3.6700	-.87
--	Method 040.20	--	177	5.4835	-.29	393	5.2100	-1.18	397	5.6266	.61	193	3.0500	s -6.38
395	5.5600	1.05	055	5.4550	-.54	--	Method 048.50	--	260	5.6000	.60	396	3.7500	.71
									414	5.5350	.32			
									361	5.5250	.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 048.99	--	--	Method 050.00	--	--	Method 050.60	--	--	Method 050.99	--	--	Method 050.XX	--
275	16.320 S	158.77	131	16.540 s	-7.48	200	18.315	.51	027	17.835	-.62	325	18.190	.25
247	3.7200	1.32				356	18.300	.45	395	17.515	-1.26	322	18.190	.24
Avg	3.6417		--	Method 050.10	--	Avg	18.213		394	16.965	-2.46	029	18.170	.20
363	3.6300	-.19	322	18.190	.00	289	18.120	-.71				049	18.105	.17
394	3.5750	-.86				396	18.025	-.93	--	Method 050.XX	--	363	18.115	.14
			--	Method 050.30	--	288	18.015	-1.19	275	32.795 s	30.94	345	18.130	.12
--	Method 048.XX	--	137	19.300	1.88	415	14.824 S	-16.75	137	19.300	2.57	028	18.110	.08
275	16.320 s	123.22	381	18.813	1.12				360	19.020	1.99	Avg	18.075	
395	3.8650	1.60	397	18.194	.22	--	Method 050.61	--	030	18.950	1.84	247	18.060	-.04
247	3.7200	.71	Avg	18.097		030	18.950	1.81	381	18.813	1.55	148	18.050	-.06
396	3.7500	.56	142	17.990	-.17	029	18.565	.67	307	18.705	1.33	177	18.049	-.06
Avg	3.7017		234	17.755	-.54	035	18.405	.23	262	18.660 R	1.31	055	18.065	-.08
362	3.6700	-.31	106	17.885 R	-.54	Avg	18.337		324	18.670	1.26	232	18.040	-.08
363	3.6300	-.71	095	17.750	-.55	037	18.275	-.29	023	18.605	1.13	326	18.030	-.10
394	3.5750	-1.25	136	17.705	-.62	028	18.195	-.42	401	18.550	1.05	396	18.025	-.11
193	3.0500 s	-6.38	351	17.274	-1.29	049	18.105	-.72	029	18.565	1.03	211	18.020	-.12
			309	16.225 S	-2.93	025	17.865	-1.39	390	18.505	.92	142	17.990	-.19
--	Method 050.00	--				041	16.930 s	-4.15	416	18.501	.90	300	17.965	-.23
416	18.501	1.91	--	Method 050.50	--				007	18.400 R	.80	383	17.935	-.30
095	18.370	1.31	324	18.670	1.24	--	Method 050.99	--	070	18.425	.76	288	18.015	-.31
057	18.250	.79	Avg	18.080		275	32.795 s	31.95	377	18.400	.71	292	17.925	-.32
009	18.240	.69	292	17.925	-.33	360	19.020	2.01	035	18.405	.70	162	18.055	-.35
043	18.225	.69	402	17.645	-.92	307	18.705	1.33	153	18.396	.68	362	17.870 X	-.44
090	18.210	.62				262	18.660 R	1.32	095	18.370	.62	025	17.865	-.44
029	18.170	.36	--	Method 050.51	--	401	18.550	1.04	361	18.355	.59	392	17.840	-.49
345	18.130	.18	023	18.605	1.06	153	18.396	.66	260	18.325	.54	405	17.825	-.53
028	18.110	.12	007	18.400	.81	369	18.230 R	.53	369	18.230 R	.53	027	17.835	-.56
Avg	18.093		070	18.425	.80	260	18.325	.52	200	18.315	.51	234	17.755	-.68
148	18.050	-.21	377	18.400	.77	376	18.195	.22	356	18.300	.48	095	17.750	-.69
055	18.065	-.21	361	18.355	.69	325	18.190	.21	037	18.275	.45	106	17.885 R	-.70
326	18.030	-.30	Avg	17.882		363	18.115	.13	057	18.250	.39	296	17.735	-.73
211	18.020	-.35	251	17.515	-.70	Avg	18.094		009	18.240	.35	136	17.705	-.78
300	17.965	-.60	102	17.363	-.76	247	18.060	-.08	043	18.225	.34	372	17.665	-.87
162	18.055 R	-.79	389	17.150	-1.07	177	18.049	-.10	397	18.194	.33	402	17.645	-.92
392	17.840	-1.18	393	16.725	-1.68	232	18.040	-.12	090	18.210	.31	395	17.515	-1.18
296	17.735	-1.70				383	17.935	-.35	028	18.195	.25	251	17.515 R	-1.35
372	17.665	-2.01	--	Method 050.60	--	362	17.870 X	-.49	376	18.195	.25	102	17.363	-1.50
193	17.160 s	-4.43	390	18.505	1.50	405	17.825	-.59	289	18.120	.25	351	17.274	-1.69

* 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 050.XX	--	--	Method 101.30	--	--	Method 101.XX	--	--	Method 121.00	--	--	Method 121.30	--
389	17.150	-1.95	360	5.4900	1.30	247	5.3000	.53	395	4.6600	.41	393	3.8500	-2.50
193	17.160	-1.95	393	5.4700 X	1.21	395	5.3100	.53	369	4.6350	.38	320	1.9245 s	-10.01
394	16.965	-2.34	035	5.4600	1.17	055	5.2950	.48	029	4.6300	.31			
041	16.930	-2.41	361	5.3950	.91	330	5.2750	.40	043	4.6200	.29	--	Method 121.70	--
393	16.725	-2.84	409	5.3550	.74	057	5.2416	.31	106	4.6050	.22	415	4.7961	.87
131	16.540 s	-3.32	247	5.3000	.55	396	5.2300	.22	177	4.5955	.19	Avg	4.7215	
309	16.225 s	-3.89	330	5.2750	.42	324	5.2150	.15	Avg	4.5399		416	4.6470	-.87
415	14.824 s	-6.83	057	5.2416	.33	177	5.2010	.12	040	4.5375	-.06			
			396	5.2300	.24	009	5.1936	.07	137	4.5100	-.11	--	Method 121.XX	--
--	Method 060.00	--	324	5.2150	.17	Avg	5.1800		296	4.4700	-.39	360	5.1900 R	2.44
320	0.6350 s	3.62	009	5.1936	.09	037	5.1600	-.08	351	4.4135	-.43	392	5.0300	1.84
416	0.5415	1.33	Avg	5.1752		136	5.1650	-.12	234	4.4150	-.48	055	5.0250	1.82
363	0.4950	.52	102	5.1733	-.26	040	5.1550	-.12	136	4.3600	-.62	028	5.0200	1.80
361	0.4900	.39	376	5.0500	-.55	106	5.1500	-.17	095	4.3700	-.70	035	4.8700	1.25
Avg	0.4723		300	5.0100	-.68	029	5.1350	-.21	262	4.2400	-1.05	381	4.7885 R	1.04
193	0.4200	-1.01	394	4.9700	-.84	102	5.1733	-.26	289	4.2250	-1.08	415	4.7961	.98
362	0.4150	-1.14	023	4.9850 R	-1.01	376	5.0500	-.57	200	4.1350 X	-1.39	232	4.7600	.85
			251	4.8950	-1.15	300	5.0100	-.70	309	3.8000	-2.54	247	4.7100	.69
--	Method 101.00	--	389	4.8800	-1.21	351	4.9995	-.74				037	4.7050	.66
028	5.5750	1.62	292	4.5500	-2.57	397	5.1090 R	-.82	--	Method 121.30	--	397	4.6282	.51
137	5.5200	1.39	193	3.3500 s	-7.49	394	4.9700	-.86	360	5.1900 R	2.76	395	4.6600	.49
043	5.4100	.98				131	5.0100 R	-.90	035	4.8700	1.48	102	4.6552	.48
395	5.3100	.56	--	Method 101.70	--	289	4.9750	-.98	232	4.7600	1.06	369	4.6350	.44
055	5.2950	.51	415	5.4220	.71	023	4.9850 R	-1.01	247	4.7100	.87	416	4.6470	.44
177	5.2010	.15				296	4.9300	-1.06	102	4.6552	.65	029	4.6300	.38
Avg	5.1697		--	Method 101.99	--	251	4.8950	-1.16	389	4.6250	.54	389	4.6250	.37
037	5.1600	-.04	131	5.0100	.71	389	4.8800	-1.22	023	4.6100	.47	043	4.6200	.36
040	5.1550	-.08	--	Method 101.XX	--	095	4.5650	-2.56	394	4.5550	.31	023	4.6100	.31
136	5.1650	-.10	028	5.5750	1.62	292	4.5500	-2.57	057	4.5610	.30	106	4.6050	.29
106	5.1500	-.14	137	5.5200	1.39	193	3.3500 s	-7.45	330	4.5600	.28	177	4.5955	.25
029	5.1350	-.17	360	5.4900	1.27	--	Method 121.00	--	Avg	4.4897		394	4.5550	.20
351	4.9995	-.68	393	5.4700 X	1.18	392	5.0300	1.69	009	4.4895	-.07	057	4.5610	.16
397	5.1090 R	-.79	035	5.4600	1.14	055	5.0250	1.67	361	4.4600	-.12	330	4.5600	.13
289	4.9750	-.92	415	5.4220	1.00	028	5.0200	1.65	396	4.3900	-.41	251	4.5500	.09
296	4.9300	-.99	043	5.4100	.96	381	4.7885	.94	324	4.3850	-.42	040	4.5375	.07
095	4.5650	-2.45	361	5.3950	.88	037	4.7050	.57	292	4.3250	-.65	Avg	4.5257	
			409	5.3550	.72	397	4.6282	.45	376	3.9700	-2.04	137	4.5100	-.07
												009	4.4895	-.15

* 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 121.XX	--	--	Method 131.XX	--	--	Method 144.99	--	--	Method 144.XX	--	--	Method 151.XX	--
361	4.4600	-.24	029	4.4850	.77	288	14.405	.98	394	13.990	.30	232	13.000	2.04
296	4.4700	-.38	396	4.3200	.39	247	14.375	.93	401	13.965	.26	Avg	5.1624	
351	4.4135	-.41	360	4.3050	.36	324	14.235	.72	405	13.950	.25	247	4.8500	-.09
234	4.4150	-.47	234	4.2850	.31	023	14.115 R	.66	137	13.945	.24	409	4.3500	-.21
396	4.3900	-.51	Avg	4.1506		360	13.960 R	.63				102	4.1995	-.25
324	4.3850	-.52	289	4.0900	-.14	232	14.160 X	.60	040	13.825	.06	040	4.6550 R	-.39
136	4.3600	-.60	309	3.7000	-1.03	136	14.068	.46	070	13.790	.04	096	3.2000	-.51
095	4.3700 R	-.69	393	3.1600	-2.27	394	13.990	.35	395	13.810	.03	009	1.3750	-.98
292	4.3250	-.74	040	3.1150 R	-2.39	401	13.965	.31	Avg	13.790				
262	4.2400	-1.06				405	13.950	.29	361	13.725	-.10	--	Method 165.00	--
289	4.2250	-1.10	--	Method 144.01	--	330	13.935	.28	193	13.715	-.11	137	0.0700 s	4.34
200	4.1350 X	-1.42	043	14.495	1.34	040	13.825	.09	376	13.690	-.15	397	0.0599 s	3.38
376	3.9700	-2.03	095	14.415	1.13	Avg	13.765		102	13.647	-.21	292	0.0520	1.43
393	3.8500	-2.46	296	14.390	1.09	376	13.690	-.12	389	13.650	-.22	029	0.0480	.78
309	3.8000	-2.64	251	14.135	.53	389	13.650	-.19	396	13.605	-.28	289	0.0470	.64
320	1.9245 s	-9.46	055	14.115	.38	396	13.605	-.25	009	13.528	-.46	028	0.0455	.38
			Avg	13.961		009	13.528	-.45	028	13.395	-.59	392	0.0435	.25
--	Method 131.00	--	137	13.945	-.12	028	13.395	-.57	351	13.116	-1.00	040	0.0445	.22
106	4.5100	.81	395	13.810	-.38	409	12.695	-1.64	409	12.695	-1.62	Avg	0.0432	
395	4.5000	.78	070	13.790	-.43	177	12.555	-1.85	177	12.555	-1.82	057	0.0426	-.13
029	4.4850	.73	193	13.715	-.61	393	12.415 X	-2.06	393	12.415 X	-2.03	023	0.0425	-.14
234	4.2850	.09	102	13.647	-.78	131	8.7270 s	-7.70	397	11.692	-3.10	037	0.0375	-.93
Avg	4.2617		351	13.116	-2.11				289	11.515 R	-3.41	055	0.0290	-2.30
289	4.0900	-.56	397	11.692 s	-5.66	--	Method 144.XX	--	131	8.7270 s	-7.48			
309	3.7000	-1.84				035	15.100	1.94	372	7.8900 s	-8.71	--	Method 165.99	--
			--	Method 144.02	--	292	14.525	1.09				324	0.0513	1.29
--	Method 131.30	--	292	14.525	.71	043	14.495	1.05	--	Method 151.30	--	396	0.0510	1.11
396	4.3200	.66				095	14.415	.92	232	13.000	1.81	009	0.0486	.72
360	4.3050	.63	--	Method 144.03	--	288	14.405	.91	Avg	5.3249		360	0.0475	.50
Avg	3.9283		361	13.725	.71	296	14.390	.90	247	4.8500	-.12	394	0.0469	.49
393	3.1600	-1.29	Avg	13.725		247	14.375	.87	102	4.1995	-.27	035	0.0465	.42
			372	7.8900 S	-165.04	324	14.235	.66	096	3.2000	-.50	Avg	0.0447	
--	Method 131.99	--				023	14.115 R	.61	009	1.3750	-.93	300	0.0440	-.37
040	3.1150	-.71	--	Method 144.50	--	360	13.960 R	.59				232	0.0418	-.53
			289	11.515	.71	232	14.160 X	.55	--	Method 151.99	--	409	0.0415	-.71
--	Method 131.XX	--				251	14.135	.54	040	4.6550	1.21	251	0.0400	-.83
106	4.5100	.82	--	Method 144.99	--	055	14.115	.48	Avg	4.5025		376	0.0325	-2.19
395	4.5000	.80	035	15.100	2.05	136	14.068	.41	409	4.3500	-.18			

* 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 165.XX	--	--	Method 181.30	--	--	Method 190.00	--	--	Method 191.30	--	--	Method 221.00	--
137	0.0700 s	4.42	102	3.2790	.77	200	2.0650 X	-.55	009	52.490	1.29	193	0.0705 s	92.63
397	0.0599 s	3.43	035	2.8450	.17	027	2.0350	-.81	102	42.777	.20	029	0.0070	1.18
292	0.0520	1.36	Avg	2.8018		395	1.8050	-2.74	Avg	42.654		106	0.0069	1.04
324	0.0513	1.35	324	2.8000	-.64	396	1.1600 s	-8.19	035	42.350	-.44	Avg	0.0062	
396	0.0510	1.18	247	1.8000	-1.62	--	Method 190.99	--	247	33.000	-1.27	028	0.0059	-.59
009	0.0486	.81	--	Method 181.99	--	040	2.3350 s	4.38	--	Method 202.00	--	095	0.0055	-.91
029	0.0480	.68	409	3.1500	.71	397	2.1964	1.22	106	17.500	.87	397	0.0056	-.92
360	0.0475	.60	--	Method 181.XX	--	288	2.1550	.81	Avg	12.613		--	Method 221.30	--
394	0.0469	.57	376	7.1650 s	3.87	Avg	2.1397		397	7.7255	-.86	402	0.0105 S	8.58
289	0.0470	.54	037	5.5850	2.27	009	2.1175	-.47	--	Method 202.30	--	251	0.0100 S	7.64
035	0.0465	.50	193	4.2500	.95	360	2.0900	-1.06	009	13.720	1.96	396	0.0060 R	1.85
300	0.0440	.34	394	3.4000	.06	--	Method 190.XX	--	324	8.7000 R	.50	330	0.0065	1.41
028	0.0455	.27	Avg	3.3394		137	2.9200 s	10.77	035	9.3250	.38	247	0.0063	1.06
040	0.0445	.12	102	3.2790	-.08	234	2.7300 s	8.25	Avg	8.6192		009	0.0059	.72
Avg	0.0440		409	3.1500	-.24	040	2.3350 R	2.73	096	8.0000	-.24	232	0.0059	.70
057	0.0426	-.25	232	3.2850	-.30	043	2.2900	1.96	040	7.4000	-.51	035	0.0056	-.41
023	0.0425	-.27	300	3.0000	-.34	029	2.2800	1.80	232	6.8700	-.67	040	0.0054	-.57
392	0.0435	-.27	035	2.8450	-.51	102	2.2312	1.12	247	6.4000	-.86	324	0.0051	-1.19
232	0.0418	-.40	324	2.8000	-.68	397	2.1964	.65	320	0.0500 s	-3.30	096	0.0051	-1.22
409	0.0415	-.60	247	1.8000	-1.56	300	2.1900	.54	--	Method 202.99	--	102	0.0000 S	-10.20
251	0.0400	-.68	--	Method 190.00	--	288	2.1550	.49	409	15.000	.00	--	Method 221.99	--
037	0.0375	-1.10	137	2.9200 s	6.67	055	2.1800	.49	--	Method 202.XX	--	409	0.0073	.82
376	0.0325	-2.00	234	2.7300 s	5.15	023	2.1550	.35	106	17.500	1.70	Avg	0.0064	
055	0.0290	-2.55	043	2.2900	1.36	Avg	2.1515		409	15.000	1.18	376	0.0055	-.91
--	Method 171.99	--	029	2.2800	1.27	392	2.1450	-.11	009	13.720	.92	--	Method 221.XX	--
396	0.0428	.71	102	2.2312	.85	057	2.1300	-.30	035	9.3250	.14	193	0.0705 s	89.47
--	Method 181.00	--	300	2.1900	.51	136	2.1300	-.33	Avg	9.1990		402	0.0105 s	6.33
037	5.5850	1.28	055	2.1800	.45	009	2.1175	-.48	096	8.0000	-.24	251	0.0100 s	5.60
193	4.2500 R	.29	023	2.1550	.30	394	2.1050	-.65	324	8.7000 R	-.28	409	0.0073	1.87
Avg	3.9950		392	2.1450	.13	360	2.0900	-.86	397	7.7255	-.30	029	0.0070	1.44
394	3.4000	-.48	Avg	2.1301		028	2.0800	-1.04	040	7.4000	-.38	396	0.0060 R	1.39
300	3.0000	-.80	057	2.1300	.00	200	2.0650 X	-1.21	232	6.8700	-.48	106	0.0069	1.31
--	Method 181.30	--	136	2.1300	-.08	027	2.0350	-1.64	247	6.4000	-.57	330	0.0065	.76
376	7.1650 S	7.03	394	2.1050	-.22	395	1.8050 A	-4.85	320	0.0500	-1.87	247	0.0063	.49
232	3.2850	.91	028	2.0800	-.46	396	1.1600 s	-13.89						

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 221.XX	--	--	Method 241.30	--	--	Method 241.XX	--	--	Method 251.30	--	--	Method 261.00	--
Avg	0.0060		409	0.2600	1.28	095	0.2405	.46	247	11.900	.03	106	0.1600	-.04
028	0.0059	-.42	330	0.2450 R	1.09	136	0.2390	.42	Avg	11.874		043	0.1550	-.78
009	0.0059	-.46	324	0.2500	.94	394	0.2370	.39	096	10.500	-1.66	193	0.1550	-.78
232	0.0059	-.50	131	0.2495	.94	023	0.2310	.32				381	0.1585	-.82
035	0.0056	-.57	232	0.2450	.81	035	0.2335	.28	--	Method 251.99	--	028	0.1530	-.84
095	0.0055	-.58	057	0.2417	.71	177	0.2315	.22	376	17.550	1.04	289	0.1435	-1.86
397	0.0056	-.59	394	0.2370	.57	397	0.2301	.20	409	16.000	.25	392	0.1400	-2.16
040	0.0054	-.78	023	0.2310	.46	389	0.2250	.14	Avg	15.385				
376	0.0055	-.94	035	0.2335	.46	Avg	0.2233		040	12.605	-1.17	--	Method 261.11	--
324	0.0051	-1.27	389	0.2250	.25	247	0.2230	-.03				029	0.1560	.66
096	0.0051	-1.28	247	0.2230	.14	028	0.2190	-.12	--	Method 251.XX	--	Avg	0.1535	
102	0.0000 s	-8.27	Avg	0.2185		289	0.2170	-.17	037	22.140 s	4.71	095	0.1510	-1.03
			360	0.2095	-.28	043	0.2100	-.35	324	17.750 R	2.33	040	0.1210 S	-8.60
--	Method 241.00	--	009	0.2100	-.36	360	0.2095	-.37	376	17.550	2.03			
137	0.2900	1.48	292	0.2000	-.55	009	0.2100	-.42	409	16.000	1.30	--	Method 261.30	--
055	0.2850	1.36	376	0.2000	-.55	376	0.2000	-.62	009	12.975	.06	023	0.2375 s	5.17
037	0.2710	1.02	102	0.1944	-.81	193	0.2000	-.62	Avg	12.884		330	0.1800	1.55
029	0.2640	.86	402	0.1865	-.97	292	0.2000	-.62	232	12.100	-.34	324	0.1750	1.28
106	0.2600	.76	396	0.1780	-1.21	369	0.2000	-.68	040	12.605	-.40	361	0.1700	.93
351	0.2466	.44	300	0.1700	-1.45	102	0.1944 R	-.83	247	11.900	-.41	009	0.1661	.77
296	0.2395	.31	320	0.1460	-2.17	402	0.1865	-.99	102	11.897	-.42	376	0.1650	.69
095	0.2405	.29				381	0.1835	-1.08	096	10.500	-1.01	035	0.1660	.68
136	0.2390	.26	--	Method 241.XX	--	396	0.1780	-1.21	397	10.434	-1.02	131	0.1629	.63
397	0.2301	.08	251	0.3450 s	3.27	300	0.1700	-1.42				102	0.1649	.61
177	0.2315	.08	137	0.2900	1.78	395	0.1500	-1.95	--	Method 261.00	--	251	0.1600	.30
Avg	0.2283		055	0.2850	1.65	320	0.1460	-2.06	055	0.2300 s	7.48	057	0.1573	.15
028	0.2190	-.23	361	0.2800	1.51	040	0.1335	-2.39	262	0.1800 R	2.35	247	0.1575	.15
289	0.2170	-.27	037	0.2710	1.27				177	0.1705	1.09	389	0.1555	.04
043	0.2100	-.44	029	0.2640	1.09	--	Method 251.00	--	037	0.1700	1.03	Avg	0.1571	
193	0.2000	-.68	409	0.2600	1.01	037	22.140 S	274.64	137	0.1700	1.03	393	0.1520	-.21
369	0.2000 R	-.72	106	0.2600	.98	397	10.434	.71	351	0.1679	.82	292	0.1500	-.33
381	0.1835	-1.09	330	0.2450 R	.88	Avg	10.434		369	0.1650	.73	396	0.1445	-.68
395	0.1500	-1.88	131	0.2495	.71				395	0.1650	.73	360	0.1435	-.77
040	0.1335	-2.27	324	0.2500	.71	--	Method 251.30	--	397	0.1646	.61	300	0.1300	-1.58
			351	0.2466	.62	324	17.750 s	7.37	296	0.1655	.55	320	0.1276	-1.74
--	Method 241.30	--	232	0.2450	.59	009	12.975	1.26	136	0.1625	.28	402	0.1220 S	-2.10
251	0.3450 s	3.81	057	0.2417	.50	232	12.100	.34	Avg	0.1604				
361	0.2800	1.84	296	0.2395	.46	102	11.897	.22	234	0.1600	-.04			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 261.99	--	--	Method 261.XX	--	--	Method 281.99	--	--	Method 291.30	--	--	Method 311.99	--
409	0.1700	.80	381	0.1585	-.64	Avg	0.0797		376	31.560	1.71	251	0.5500	1.65
Avg	0.1608		095	0.1510	-.69	296	0.0643	-.85	393	25.700	.65	009	0.4516	.09
394	0.1515	-.93	292	0.1500	-.72				009	22.215	.03	Avg	0.4464	
			394	0.1515	-.76	--	Method 281.XX	--	Avg	22.079		247	0.4400	-.19
--	Method 261.XX	--	396	0.1445	-1.20	376	0.0950	1.47	247	19.700	-.43	035	0.4220	-.41
023	0.2375 s	6.71	360	0.1435	-1.31	Avg	0.0726		232	17.150	-.89	320	0.3686	-1.25
055	0.2300 s	6.12	289	0.1435	-1.33	232	0.0710	-.12	324	16.150	-1.08			
262	0.1800 R	2.01	392	0.1400	-1.57	296	0.0643	-.53				--	Method 311.XX	--
330	0.1800	1.82	300	0.1300	-2.42	096	0.0600	-1.03	--	Method 291.99	--	251	0.5500	1.87
324	0.1750	1.46	320	0.1276	-2.63				409	28.500	.84	009	0.4516	.22
177	0.1705	1.02	402	0.1220 s	-3.11	--	Method 289.00	--	Avg	22.900		247	0.4400	.17
037	0.1700	.97	040	0.1210 s	-3.19	397	3.5555	.71	035	17.300	-.89	Avg	0.4387	
137	0.1700	.97										035	0.4220	-.31
361	0.1700	.97	--	Method 271.00	--	--	Method 289.30	--	--	Method 291.XX	--	193	0.4000	-.65
409	0.1700	.97	395	0.0600	.87	009	9.0050	1.87	376	31.560	1.68	320	0.3686	-1.18
009	0.1661	.81	Avg	0.0575		Avg	4.9600		409	28.500	1.11			
351	0.1679	.80	029	0.0550	-.87	096	4.6000	-.17	393	25.700	.57	--	Method 321.00	--
376	0.1650	.69				324	3.9500	-.47	Avg	22.659		137	0.1700	2.48
395	0.1650	.69	--	Method 271.30	--	232	3.7450	-.56	009	22.215	-.08	392	0.1650	2.00
369	0.1650	.69	393	0.0695	.86	247	3.5000	-.67	397	20.301	-.44	055	0.1600	1.35
131	0.1629	.66	Avg	0.0573					247	19.700	-.56	106	0.1500 R	1.15
035	0.1660	.64	396	0.0450	-.87	--	Method 289.99	--	232	17.150	-1.04	177	0.1525	.59
397	0.1646	.61				409	5.3500	.71	035	17.300 R	-1.08	037	0.1490	.26
296	0.1655	.59	--	Method 271.XX	--				324	16.150	-1.24	200	0.1500 X	.23
102	0.1649	.56	393	0.0695	1.28	--	Method 289.XX	--				395	0.1500	.23
136	0.1625	.36	395	0.0600	.28	009	9.0050	2.22	--	Method 301.30	--	136	0.1490	.17
251	0.1600	.13	Avg	0.0574		409	5.3500	.29	247	3.2000	-.71	289	0.1490	.17
106	0.1600	.13	029	0.0550	-.25	Avg	4.8151					028	0.1485	.09
234	0.1600	.13	396	0.0450	-1.31	096	4.6000	-.11	--	Method 301.99	--	Avg	0.1479	
Avg	0.1585					324	3.9500	-.46	040	0.3600	.71	029	0.1475	-.07
247	0.1575	-.10	--	Method 281.00	--	232	3.7450	-.57				351	0.1472	-.11
057	0.1573	-.16	232	0.0710	-.71	397	3.5555	-.67	--	Method 301.XX	--	381	0.1450	-.47
029	0.1560	-.21				247	3.5000	-.70	247	3.2000	.87	296	0.1430	-.56
389	0.1555	-.26	--	Method 281.30	--				Avg	1.7800		043	0.1450	-.65
043	0.1550	-.52	096	0.0600	.71	--	Method 291.00	--	040	0.3600	-.87	369	0.1450	-.65
193	0.1550	-.52				397	20.301	.71				193	0.1400	-.89
028	0.1530	-.53	--	Method 281.99	--				--	Method 311.00	--	262	0.1400	-.89
393	0.1520	-.56	376	0.0950	.89				193	0.4000	.00	095	0.1380	-1.11

* 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 321.00	--	--	Method 321.XX	--	--	Method 321.XX	--						
397	0.1375	-1.17	361	0.1600	1.14	376	0.1350	-1.29						
234	0.1350	-1.55	389	0.1600	1.14	234	0.1350	-1.29						
			330	0.1600	1.14	393	0.1265	-2.00						
--	Method 321.30	--	409	0.1600	1.14	300	0.1250	-2.19						
360	0.1635	1.29	247	0.1590	1.05	320	0.1209	-2.55						
330	0.1600	1.01	102	0.1580	.99				--	Method 325.30	--			
361	0.1600	1.01	106	0.1500 R	.96	396	0.0265	-.71						
409	0.1600	1.01	402	0.1495 R	.72									
247	0.1590	.93	035	0.1555	.72									
102	0.1580	.88	023	0.1535	.53									
035	0.1555	.65	177	0.1525	.49									
402	0.1495 R	.63	057	0.1503	.25									
023	0.1535	.48	009	0.1500	.23									
057	0.1503	.24	037	0.1490	.22									
009	0.1500	.22	324	0.1500	.20									
324	0.1500	.20	200	0.1500 X	.20									
251	0.1500	.20	395	0.1500	.20									
292	0.1500	.20	251	0.1500	.20									
Avg	0.1475		292	0.1500	.20									
394	0.1465	-.15	136	0.1490	.14									
131	0.1435	-.35	289	0.1490	.14									
040	0.1420	-.55	028	0.1485	.08									
396	0.1390	-.69	Avg	0.1479										
376	0.1350	-1.09	029	0.1475	-.06									
393	0.1265	-1.70	351	0.1472	-.09									
300	0.1250	-1.87	394	0.1465	-.19									
320	0.1209	-2.18	381	0.1450	-.39									
			131	0.1435	-.43									
--	Method 321.99	--	296	0.1430	-.46									
389	0.1600	.87	043	0.1450	-.54									
Avg	0.1507		369	0.1450	-.54									
409	0.1414	-.87	409	0.1414	-.61									
			040	0.1420	-.66									
--	Method 321.XX	--	193	0.1400	-.74									
137	0.1700	2.07	262	0.1400	-.74									
392	0.1650	1.67	396	0.1390	-.84									
360	0.1635	1.47	095	0.1380	-.92									
055	0.1600	1.14	397	0.1375	-.97									

* 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
001.10	13	-0.0486	0.98	0.25	050.51	9	0.0000	1.01	0.20
001.99	11	-0.9215	4.81	0.56	050.60	7	-2.3931	6.39	0.37
001.XX	24	-0.3546	2.58	0.36	050.61	8	-0.5184	1.75	0.15
002.20	4	0.0000	1.07	0.11	050.99	20	1.6739	7.19	0.19
002.99	13	0.0544	0.99	0.20	050.XX	75	0.2255	3.85	0.22
002.XX	17	0.0284	0.98	0.16	060.00	6	0.5209	1.58	0.77
009.10	9	-0.7043	2.32	0.18	060.XX	6	0.5209	1.58	0.77
009.XX	9	-0.7043	2.32	0.18	101.00	16	-0.0151	0.96	0.28
010.11	7	-6.1824	21.99	0.44	101.30	20	-0.4132	1.93	0.19
010.12	6	0.0000	1.03	0.20	101.XX	38	-0.2428	1.53	0.25
010.60	52	-0.2697	2.28	0.60	121.00	23	0.0000	1.00	0.18
010.99	7	0.8354	2.41	0.12	121.30	19	-0.3830	2.60	0.13
010.XX	71	-0.4134	3.70	0.52	121.70	2	0.0000	1.22	0.05
020.10	7	0.0000	0.99	0.30	121.XX	44	-0.1512	1.77	0.16
020.20	19	0.1051	2.61	1.34	131.00	6	0.0000	1.05	0.02
020.30	2	-14.1887	20.07	34.87	131.30	3	0.0000	1.12	0.02
020.40	7	0.3119	1.23	0.53	131.XX	10	-0.2370	1.23	0.10
020.50	4	0.0000	1.02	0.32	144.01	12	-0.4710	1.90	0.15
020.99	3	0.0000	1.07	0.26	144.03	2	-82.5194	116.70	0.54
020.XX	42	0.1089	2.00	1.08	144.99	22	-0.3122	1.90	0.17
030.10	2	0.0000	1.11	0.37	144.XX	38	-0.4951	2.12	0.16
030.20	4	0.0000	1.04	0.25	151.30	5	0.0000	1.06	0.06
030.40	2	0.0000	0.17	0.86	151.99	2	0.0000	0.18	0.86
030.XX	8	0.0000	0.99	0.28	151.XX	7	-0.0188	0.96	0.15
040.20	3	0.0000	1.10	0.16	165.00	12	0.5871	1.69	0.59
040.40	4	0.0000	0.89	0.53	165.99	11	0.0000	0.97	0.31
040.XX	9	0.0000	0.97	0.34	165.XX	23	0.3096	1.41	0.49
041.10	16	-0.4934	2.20	0.15	181.00	4	0.0512	0.92	0.10
041.20	5	0.0000	1.05	0.15	181.30	6	1.1709	3.00	0.37
041.40	5	0.7230	1.86	0.18	181.XX	11	0.3516	1.51	0.19
041.50	9	0.4227	1.59	0.25	190.00	17	0.2085	3.06	0.25
041.60	11	0.0000	0.99	0.26	190.99	5	0.8303	2.04	0.71
041.XX	42	-0.0350	1.65	0.23	190.XX	22	0.1227	4.47	0.42
048.20	3	-2.1230	3.78	0.26	191.30	4	0.0000	1.04	0.25
048.99	4	39.6922	79.39	0.82	191.XX	4	0.0000	1.04	0.25
048.XX	8	14.6063	43.95	0.50	202.00	2	0.0000	1.22	0.06
050.00	20	-0.5906	2.06	0.49	202.30	8	-0.4086	1.46	0.21
050.30	10	-0.3257	1.29	0.16	202.XX	11	-0.0093	0.97	0.10
050.50	3	0.0000	1.11	0.14	221.00	6	15.4372	37.82	0.36

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
221.30	12	0.5399	4.65	0.65					
221.99	2	0.0000	1.13	0.34					
221.XX	20	4.6570	20.16	0.46					
241.00	19	-0.0357	1.00	0.09					
241.30	22	0.2083	1.25	0.24					
241.XX	41	0.0744	1.10	0.17					
251.00	2	119.9673	169.66	94.49					
251.30	6	1.1119	2.87	1.30					
251.99	3	0.0000	1.01	0.40					
251.XX	11	0.5341	1.54	0.92					
261.00	19	0.4999	1.95	0.49					
261.11	3	-2.8615	5.00	0.55					
261.30	20	0.2582	1.51	0.19					
261.99	2	0.0000	1.13	0.34					
261.XX	44	0.1887	1.80	0.32					
271.00	2	0.0000	1.22	0.00					
271.30	2	0.0000	1.22	0.06					
271.XX	4	0.0000	1.08	0.06					
281.99	2	0.0000	1.19	0.20					
281.XX	4	0.0000	1.00	0.36					
289.30	5	0.0000	1.06	0.06					
289.XX	7	0.0000	1.04	0.07					
291.30	6	0.0000	1.05	0.07					
291.99	2	0.0000	1.19	0.22					
291.XX	9	-0.1123	1.02	0.14					
301.XX	2	0.0000	1.22	0.06					
311.99	5	0.0000	1.05	0.10					
311.XX	6	0.0000	1.04	0.10					
321.00	22	0.0106	0.95	0.36					
321.30	22	0.0072	0.97	0.21					
321.99	2	0.0000	1.22	0.01					
321.XX	45	0.0020	0.95	0.30					