

MAGRUDER - Fertilizer Check Sample No. - 200201 Grade 6-24-24

- Pass 1 Results for 80 Labs - - Pass 2 Results for 80 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, Other		001.99	2	5.5150	0.0790	0.0300	2	5.5150	0.0790	0.0300
Nitrate Nitrogen, Other		002.99	1	0.0300	0.0283	0.0400	1	0.0300	0.0283	0.0400
Water Insoluble Nitrogen, Meth II(Katz)	970.04	003.20	1	5.7750	0.0636	0.0900	1	5.7750	0.0636	0.0900
Ammon & Nitrate N, Devarda	892.01	009.10	2	5.3825	0.1362	0.1650	2	5.3825	0.1362	0.1650
Total Nitrogen, Modified Comprehensive	978.02	010.11	11	5.6738	0.1124	0.0413	11	5.7011	0.1346	0.0341
Total Nitrogen, Salicylic	955.04D	010.12	9	5.6117	0.0692	0.0311	9	5.6117	0.0692	0.0311
Total Nitrogen, Comprehensive	970.02	010.17	1	5.6450	0.0778	0.1100	1	5.6450	0.0778	0.1100
Total Nitrogen, Combustion		010.60	46	5.6563	0.0939	0.0440	44	5.6546	0.0940	0.0385
Total Nitrogen, Other		010.99	6	5.6398	0.1188	0.0318	6	5.6398	0.1188	0.0318
Method Group 010.XX PCT			73	5.6519	0.0966	0.0419	69	5.6465	0.0905	0.0374
Total Phosphate, Grav Quimociac	962.02	020.10	7	22.481	0.3847	0.1600	6	22.433	0.3723	0.0800
Total Phosphate, Spectrometric	958.01	020.20	15	22.442	0.2090	0.0953	15	22.442	0.2090	0.0953
Total Phosphate, Alka. Quimociac	969.02	020.30	1	22.609	0.0668	0.0945	1	22.609	0.0668	0.0945
Total Phosphate, Automated	978.01	020.40	6	22.488	0.1038	0.1217	6	22.488	0.1038	0.1217
Total Phosphate, ICP		020.50	2	22.301	0.5076	0.0196	2	22.301	0.5076	0.0196
Total Phosphate, Other		020.99	2	22.594	0.1088	0.0135	2	22.594	0.1088	0.0135
Method Group 020.XX PCT			34	22.482	0.2746	0.1056	33	22.473	0.2682	0.0894
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.3250	0.0212	0.0300	1	0.3250	0.0212	0.0300
Insoluble Phosphate, Spectrometric ...	963.03C	030.20	2	0.4575	0.2225	0.0150	2	0.4575	0.2225	0.0150
Insoluble Phosphate, Automated	978.01	030.40	3	0.3267	0.0484	0.0133	3	0.3267	0.0484	0.0133
Insoluble Phosphate, Other		030.99	1	0.2950	0.0495	0.0700	1	0.2950	0.0495	0.0700
Method Group 030.XX PCT			7	0.3593	0.1297	0.0243	7	0.3593	0.1297	0.0243
InDir Available Phosphate, Grav Quim ..	960.02	040.10	1	22.260	0.0424	0.0600	1	22.260	0.0424	0.0600
InDir Available Phosphate, Spectrometri	960.02	040.20	3	22.505	0.8042	0.0500	3	22.505	0.8042	0.0500
InDir Available Phosphate, Automated ..	960.02	040.40	2	22.103	0.0591	0.0950	2	22.103	0.0591	0.0950
InDir Available Phosphate, Other		040.99	1	22.130	0.0707	0.1000	1	22.130	0.0707	0.1000
Method Group 040.XX PCT			7	22.301	0.5349	0.0714	7	22.301	0.5349	0.0714
Dir Available Phosphate, Grav Quim	960.03E	041.10	18	22.276	0.1960	0.0984	18	22.276	0.1960	0.0984
Dir Available Phosphate, Spectrometric	960.03D	041.20	4	22.440	0.6050	0.2111	4	22.440	0.6050	0.2111
Dir Available Phosphate, Alka. Quim ...	960.03C	041.30	1	21.515	0.1061	0.1500	1	21.515	0.1061	0.1500
Dir Available Phosphate, Automated	978.01	041.40	5	22.227	0.3174	0.0506	5	22.227	0.3174	0.0506
Dir Available Phosphate, ICP		041.50	6	22.133	0.3801	0.1300	6	22.133	0.3801	0.1300
Dir Available Phosphate, EDTA Extract .	993.01	041.60	9	22.524	0.2136	0.0870	9	22.524	0.2136	0.0870
Dir Available Phosphate, Other		041.99	1	22.150	0.2121	0.3000	1	22.150	0.2121	0.3000
Method Group 041.XX PCT			45	22.280	0.3535	0.1163	45	22.280	0.3535	0.1163
Water Soluble Phosphate, Spectrometric	970.01	048.20	4	17.354	0.3235	0.1725	4	17.354	0.3235	0.1725
Water Soluble Phosphate, Other		048.99	1	19.870	0.0566	0.0800	1	19.870	0.0566	0.0800
Method Group 048.XX PCT			5	17.857	1.0988	0.1540	5	17.857	1.0988	0.1540
Soluble Potash, STPB Oxalate	958.02	050.00	21	27.012	0.3243	0.0835	20	27.061	0.2442	0.0867

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Soluble Potash, STPB Citrate	969.04	050.10	1	27.128	0.0000	0.0000	1	27.128	0.0000	0.0000
Soluble Potash, AA (Oxalate)		050.30	9	26.738	0.7522	0.1560	8	26.720	0.7882	0.0868
Soluble Potash, ICP (Oxalate)		050.50	2	26.585	0.4721	0.1917	2	26.585	0.4721	0.1917
Soluble Potash, ICP (Citrate)		050.51	7	27.129	0.5910	0.0614	7	27.129	0.5910	0.0614
Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	3	27.997	0.7172	0.2867	3	27.997	0.7172	0.2867
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	7	27.296	0.2059	0.1671	7	27.296	0.2059	0.1671
Soluble Potash, Other		050.99	15	26.516	0.8401	0.2991	13	26.510	0.8098	0.1590
Method Group 050.XX PCT			66	26.961	0.6968	0.1606	60	26.980	0.6282	0.0941
Free Water, Vacuum Oven	965.08B	060.00	6	0.9112	0.3151	0.0376	6	0.9112	0.3151	0.0376
Acid Soluble Calcium, AA	945.04	101.00	1	6.0100	0.0707	0.1000	1	6.0100	0.0707	0.1000
Acid Soluble Calcium, ICP		101.30	7	5.8793	0.2469	0.1100	6	5.8667	0.2389	0.0367
Method Group 101.XX PCT			8	5.8957	0.2348	0.1088	7	5.8872	0.2267	0.0457
Acid Soluble Magnesium, AA	984.01	121.00	2	0.2865	0.0196	0.0220	2	0.2865	0.0196	0.0220
Acid Soluble Magnesium, ICP		121.30	7	0.2720	0.0174	0.0142	6	0.2723	0.0139	0.0066
Method Group 121.XX PCT			9	0.2752	0.0184	0.0160	8	0.2759	0.0161	0.0104
Water Soluble Magnesium, AA		131.00	1	0.0300	0.0000	0.0000	1	0.0300	0.0000	0.0000
Sulfur, Gravimetric	980.02a	144.01	4	0.5999	0.2102	0.0077	4	0.5999	0.2102	0.0077
Sulfur, Other		144.99	6	0.6356	0.1798	0.0084	6	0.6356	0.1798	0.0084
Method Group 144.XX PCT			10	0.6213	0.1879	0.0081	10	0.6213	0.1879	0.0081
Arsenic, ICP		151.30	3	3.6869	0.4975	0.3975	3	3.6869	0.4975	0.3975
Arsenic, Other		151.99	2	4.4750	0.6185	0.1500	2	4.4750	0.6185	0.1500
Method Group 151.XX PPM			5	4.0022	0.6562	0.2985	5	4.0022	0.6562	0.2985
Acid Soluble Boron, Other		165.99	1	0.0216	0.0013	0.0019	1	0.0216	0.0013	0.0019
Cadmium, Atomic Absorption		181.00	3	1.8609	0.1984	0.1002	3	1.8609	0.1984	0.1002
Cadmium, ICP		181.30	10	1.9348	0.1615	0.1689	10	1.9348	0.1615	0.1689
Cadmium, Other		181.99	1	2.0000	0.0000	0.0000	1	2.0000	0.0000	0.0000
Method Group 181.XX PPM			14	1.9236	0.1645	0.1421	14	1.9236	0.1645	0.1421
Water Soluble Chlorine, Titrimetric	928.02	190.00	1	20.755	0.0071	0.0100	1	20.755	0.0071	0.0100
Water Soluble Chlorine, Other		190.99	1	21.296	0.0571	0.0808	1	21.296	0.0571	0.0808
Method Group 190.XX PCT			2	21.026	0.3141	0.0454	2	21.026	0.3141	0.0454
Chromium, Atomic Absorption		191.00	2	38.500	1.2910	1.0000	2	38.500	1.2910	1.0000
Chromium, ICP		191.30	5	39.094	10.912	1.4855	5	39.094	10.912	1.4855
Method Group 191.XX PPM			7	38.924	9.1045	1.3468	7	38.924	9.1045	1.3468
Acid Soluble Cobalt, AA		202.00	2	5.7500	0.9574	0.5000	2	5.7500	0.9574	0.5000
Acid Soluble Cobalt, ICP	965.11	202.30	7	2.0153	0.8468	0.2666	7	2.0153	0.8468	0.2666
Acid Soluble Cobalt, Other		202.99	2	2.5000	0.5774	0.0000	2	2.5000	0.5774	0.0000
Method Group 202.XX PPM			11	2.7825	1.6454	0.2606	10	2.4107	1.1687	0.1867
Acid Soluble Copper, Atomic Absorption	975.01	221.00	4	0.0013	0.0005	0.0001	3	0.0014	0.0005	0.0000
Acid Soluble Copper, ICP		221.30	9	0.0007	0.0002	0.0000	8	0.0007	0.0002	0.0000

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Acid Soluble Copper, Other		221.99	2	0.0011	0.0002	0.0002	2	0.0011	0.0002	0.0002
Method Group 221.XX PCT			16	0.0009	0.0004	0.0001	14	0.0009	0.0004	0.0000
Acid Soluble Iron, ICP		241.30	8	0.4935	0.0366	0.0062	8	0.4935	0.0366	0.0062
Method Group 241.XX PCT			8	0.4935	0.0366	0.0062	8	0.4935	0.0366	0.0062
Lead, Atomic Absorption		251.00	3	2.6444	1.8463	0.2069	3	2.6444	1.8463	0.2069
Lead, ICP		251.30	5	4.7630	2.2448	0.7220	5	4.7630	2.2448	0.7220
Lead, Other		251.99	1	8.0000	0.0000	0.0000	1	8.0000	0.0000	0.0000
Method Group 251.XX PPM			9	4.4165	2.5219	0.4701	8	3.9498	2.2353	0.2914
Acid Soluble Manganese, AA	972.02a	261.00	1	0.0170	0.0014	0.0020	1	0.0170	0.0014	0.0020
Acid Soluble Manganese, ICP	972.02a	261.30	7	0.0157	0.0008	0.0004	7	0.0157	0.0008	0.0004
Method Group 261.XX PCT			8	0.0158	0.0009	0.0006	8	0.0158	0.0009	0.0006
Mercury, ICP		281.30	1	0.1050	0.0212	0.0300	1	0.1050	0.0212	0.0300
Mercury, Other		281.99	1	0.0200	0.0000	0.0000	1	0.0200	0.0000	0.0000
Method Group 281.XX PPM			2	0.0625	0.0506	0.0150	2	0.0625	0.0506	0.0150
Molybdenum, ICP		289.30	8	4.3235	0.3960	0.2320	7	4.3126	0.3941	0.1509
Molybdenum, Other		289.99	2	5.4750	0.6397	0.2500	2	5.4750	0.6397	0.2500
Method Group 289.XX PPM			10	4.5538	0.6416	0.2356	9	4.5709	0.6620	0.1729
Nickel, Atomic Absorption		291.00	2	11.375	4.7891	0.8500	2	11.375	4.7891	0.8500
Nickel, ICP		291.30	8	7.6818	1.1429	0.5774	8	7.6818	1.1429	0.5774
Nickel, Other		291.99	1	6.4950	0.4879	0.6900	1	6.4950	0.4879	0.6900
Method Group 291.XX PPM			11	8.2454	2.5730	0.6372	10	7.5200	1.0940	0.6010
Selenium, ICP		301.30	1	1.0500	0.0707	0.1000	1	1.0500	0.0707	0.1000
Selenium, Other		301.99	3	0.2033	0.0437	0.0133	3	0.2033	0.0437	0.0133
Method Group 301.XX PPM			4	0.4150	0.3946	0.0350	4	0.4150	0.3946	0.0350
Sodium, Atomic Absorption	983.04	311.00	1	0.2965	0.0064	0.0090	1	0.2965	0.0064	0.0090
Sodium, Other		311.99	5	0.6684	0.1794	0.0080	5	0.6684	0.1794	0.0080
Method Group 311.XX PCT			6	0.6064	0.2174	0.0082	6	0.6064	0.2174	0.0082
Acid Soluble Zinc, Atomic Absorption	975.02	321.00	6	0.0043	0.0020	0.0003	5	0.0037	0.0014	0.0001
Acid Soluble Zin, ICP		321.30	11	0.0041	0.0010	0.0002	11	0.0041	0.0010	0.0002
Acid Soluble Zinc, Other		321.99	3	0.0055	0.0022	0.0003	3	0.0055	0.0022	0.0003
Method Group 321.XX PCT			20	0.0044	0.0016	0.0002	19	0.0042	0.0014	0.0002

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 001.99	--	--	Method 010.12	--	--	Method 010.60	--	--	Method 010.XX	--	--	Method 010.XX	--
320	5.5800	.82	102	5.5500	-.89	372	5.6250	-.41	027	5.7725	1.39	041	5.6250	-.45
Avg	5.5150		415	5.5514	-1.03	041	5.6250	-.49	162	5.7500	1.27	397	5.6069	-.46
247	5.4500	-.91	185	5.5400	-1.04	007	5.6500	-.53	086	5.7355	1.22	361	5.6050	-.49
						040	5.6050	-.55	409	5.7000 R	1.16	040	5.6050	-.49
--	Method 002.99	--	--	Method 010.17	--	361	5.6050	-.55	029	5.7450	1.09	136	5.6000	-.51
247	0.0300	.71	262	5.6450	.71	324	5.6400	-.55	037	5.7300	1.02	326	5.6000	-.53
						136	5.6000	-.58	360	5.6850 R	.93	324	5.6400	-.56
--	Method 003.20	--	--	Method 010.60	--	142	5.5950	-.65	292	5.7250	.87	416	5.6026	-.56
391	5.7750	.71	043	5.8800 s	2.67	296	5.5850	-.76	106	5.7050	.70	142	5.5950	-.59
			356	5.8750	2.42	247	5.5900	-.76	330	5.7000	.59	262	5.6450	-.61
--	Method 009.10	--	325	5.8700	2.30	023	5.5850	-.79	024	5.6850	.58	296	5.5850	-.70
030	5.4000	.13	025	5.8250	1.81	057	5.5800	-.86	007	5.6500	.55	247	5.5900	-.71
Avg	5.3825		234	5.8200	1.79	049	5.5700	-.92	275	5.6950	.54	023	5.5850	-.73
258	5.3650	-1.22	027	5.7725	1.25	095	5.5650	-.97	376	5.6900	.49	211	5.5900	-.77
			086	5.7355	1.11	389	5.5600	-1.03	288	5.6850	.46	220	5.6400 R	-.78
--	Method 010.11	--	409	5.7000 R	1.07	232	5.5300	-1.33	251	5.6550	.40	057	5.5800	-.81
405	5.9550	1.89	029	5.7450	.96	233	5.4750	-1.92	369	5.6800	.37	157	5.5750	-.81
363	5.9400 S	1.79	037	5.7300	.91	009	5.4300	-2.41	377	5.6750	.36	148	5.5700	-.85
414	5.7900	.66	360	5.6850 R	.86				322	5.6669	.33	153	5.5695	-.85
Avg	5.6772		292	5.7250	.75	--	Method 010.99	--	131	5.6765	.33	049	5.5700	-.87
288	5.6850	-.16	106	5.7050	.60	090	5.8450	1.73	024	5.6750	.32	095	5.5650	-.92
322	5.6669	-.30	330	5.7000	.48	024	5.6850	.48	028	5.6650	.26	389	5.5600	-.98
029	5.6600	-.31	275	5.6950	.43	300	5.6450	.13	137	5.6700	.26	102	5.5500	-1.07
114	5.6550	-.36	376	5.6900	.39	Avg	5.6398		035	5.6500	.22	415	5.5514	-1.13
028	5.6250	-.58	251	5.6550	.37	362	5.6150	-.24	114	5.6550	.19	185	5.5400	-1.18
220	5.6400 R	-.69	369	5.6800	.27	153	5.5695	-.59	029	5.6600	.19	232	5.5300	-1.29
211	5.5900	-.88	377	5.6750	.27	177	5.4790	-1.36	401	5.6550	.11	177	5.4790	-1.85
157	5.5750	-.94	131	5.6765	.23				Avg	5.6465		233	5.4750	-1.90
148	5.5700	-.98	024	5.6750	.22	--	Method 010.XX	--	390	5.6400	-.13	009	5.4300	-2.42
			028	5.6650	.19	405	5.9550 A	3.41	334	5.6340	-.14			
--	Method 010.12	--	401	5.6550	.05	363	5.9400 s	3.26	351	5.6340	-.15	--	Method 020.10	--
162	5.7500	2.13	Avg	5.6546		043	5.8800 s	2.85	300	5.6450	-.17	114	22.905	1.29
137	5.6700	.84	390	5.6400	-.19	356	5.8750	2.60	157	5.6450	-.17	162	22.770 R	1.25
351	5.6340	.33	157	5.6450	-.19	325	5.8700	2.48	220	5.6250	-.29	148	22.690	.69
Avg	5.6117		035	5.6500	-.22	090	5.8450	2.20	028	5.6250	-.29	090	22.585	.42
397	5.6069	-.19	334	5.6340	-.22	025	5.8250	1.97	096	5.6250	-.36	Avg	22.433	
326	5.6000	-.22	220	5.6250	-.35	234	5.8200	1.95	372	5.6250	-.36	300	22.350	-.29
416	5.6026	-.39	096	5.6250	-.41	414	5.7900	1.59	362	5.6150	-.39	313	22.270	-.44

* 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 020.10	--	--	Method 020.50	--	--	Method 020.XX	--	--	Method 040.10	--	--	Method 041.10	--
095	21.800	-1.70	157	21.861	-.87	288	22.325	-.56	090	22.260	.71	131	22.190	-.57
			389	20.750 S	-3.06	334	22.315	-.60				177	22.161	-.60
--	Method 020.20	--				313	22.270	-.76	--	Method 040.20	--	049	22.130	-.76
392	23.055 S	2.95	--	Method 020.99	--	356	22.245	-.87	372	23.530	1.28	040	22.195	-.80
391	22.700	1.32	153	22.688	.87	030	21.900	-2.14	Avg	22.505		136	22.100	-.93
258	22.700	1.25	Avg	22.594		157	21.861	-2.28	220	22.130	-.47	009	22.085	-.98
362	22.645	.98	320	22.500	-.86	095	21.800	-2.51	363	21.855	-.81	405	22.025	-1.29
234	22.560	.68				262	21.640 S	-3.11				326	22.015	-1.34
324	22.545	.64	--	Method 020.XX	--	389	20.750 S	-6.43	--	Method 040.40	--			
369	22.445	.55	330	22.615 S	5.97				096	22.120	.74	--	Method 041.20	--
292	22.525	.43	392	23.055	2.19	--	Method 030.10	--	Avg	22.103		415	23.214	1.28
376	22.480	.38	114	22.905	1.65	090	0.3250	.71	409	22.085	-.98	106	22.715	.55
363	22.495	.33	162	22.770 R	1.63							Avg	22.440	
Avg	22.442		361	22.740	1.00	--	Method 030.20	--	--	Method 040.99	--	362	21.920	-.88
220	22.395	-.23	391	22.700	.92	363	0.6500	.87	247	22.130	.71	397	21.913	-.89
232	22.360	-.40	258	22.700	.86	Avg	0.4575							
288	22.325	-.57	148	22.690	.81	220	0.2650	-.87	--	Method 040.XX	--	--	Method 041.30	--
334	22.315	-.62	153	22.688	.80				372	23.530	2.30	260	21.515	.71
356	22.245	-.98	193	22.520	.66	--	Method 030.40	--	Avg	22.301				
030	21.900	-2.60	362	22.645	.65	409	0.3600	.72	090	22.260	-.10	--	Method 041.40	--
262	21.640 S	-3.84	416	22.609	.54	247	0.3550	.59	220	22.130	-.32	023	22.725	1.58
			090	22.585	.45	Avg	0.3267		247	22.130	-.33	025	22.395	.54
--	Method 020.30	--	234	22.560	.44	096	0.2650	-1.28	096	22.120	-.35	Avg	22.227	
416	22.609	-.71	035	22.565	.42				409	22.085	-.42	029	22.090	-.43
			324	22.545	.42	--	Method 030.99	--	363	21.855	-.84	131	22.040	-.59
--	Method 020.40	--	376	22.480	.26	320	0.2950	-.71				027	21.884	-1.08
193	22.520	1.67	292	22.525	.23				--	Method 041.10	--			
035	22.565	.97	142	22.530	.22	--	Method 030.XX	--	296	22.640	1.86	--	Method 041.50	--
142	22.530	.42	363	22.495	.19	363	0.6500	2.24	414	22.510	1.42	007	23.300 S	3.24
Avg	22.488		247	22.480	.15	409	0.3600	.08	041	22.470	1.22	023	22.650	1.38
247	22.480	-.39	320	22.500	.10	Avg	0.3593		211	22.480	1.04	360	22.320	.63
409	22.445	-.60	Avg	22.473		247	0.3550	-.05	028	22.440	.84	102	22.200	.32
096	22.385	-1.04	409	22.445	-.20	090	0.3250	-.29	322	22.436	.83	Avg	22.133	
			220	22.395	-.29	320	0.2950	-.56	137	22.395	.61	361	22.115	-.06
--	Method 020.50	--	096	22.385	-.35	220	0.2650	-.73	086	22.280	.41	325	22.045	-.24
330	22.615 S	3.20	232	22.360	-.42	096	0.2650	-.73	Avg	22.276		251	21.470	-1.75
361	22.740	.87	369	22.445	-.44				057	22.245	-.18			
Avg	22.301		300	22.350	-.53				029	22.175	-.52			

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 041.60	--	--	Method 041.XX	--	--	Method 048.XX	--	--	Method 050.30	--	--	Method 050.61	--
296	22.830	1.44	Avg	22.280		Avg	17.857		095	27.865	1.46	035	27.340	.67
377	22.830	1.43	288	22.270	-.09	247	17.765	-.08	397	27.313	.75	025	27.340	.26
397	22.658	.80	057	22.245	-.11	362	17.370	-.45	136	27.175	.58	Avg	27.296	
351	22.535	.05	086	22.280	-.23	363	17.320	-.49	040	26.885 R	.50	037	27.275	-.38
Avg	22.524		029	22.175	-.30	193	16.960	-.83	234	27.095	.48	028	27.195	-.54
037	22.490	-.21	131	22.190	-.32				Avg	26.720		029	26.990	-1.49
028	22.475	-.42	177	22.161	-.34	--	Method 050.00	--	142	26.450	-.34			
177	22.317	-.97	102	22.200	-.36	131	28.525 s	6.00	193	26.350	-.48	--	Method 050.99	--
043	22.315	-1.06	049	22.130	-.43	416	27.500	1.81	405	26.285	-.56	360	27.675	1.50
288	22.270	-1.20	040	22.195	-.45	090	27.305	1.06	351	25.227	-1.89	325	27.600	1.35
095	21.555 s	-4.61	361	22.115	-.47	345	27.275	1.02	185	24.000 S	-3.45	177	27.527	1.26
			136	22.100	-.53	350	27.270	.86				363	27.360 R	1.26
--	Method 041.99	--	029	22.090	-.54	057	27.225	.69	--	Method 050.50	--	232	26.835	.41
401	22.150	.71	009	22.085	-.55	326	27.220	.65	157	26.980	.84	376	26.745	.31
			401	22.150	-.56	211	27.190	.60	Avg	26.585		275	26.645 X	.24
--	Method 041.XX	--	325	22.045	-.67	220	27.190	.53	324	26.190	-.89	247	26.535	.07
007	23.300 s	3.10	131	22.040	-.68	391	27.100	.44	106	22.230 S	-9.24	Avg	26.510	
415	23.214	2.64	405	22.025	-.73	049	27.105	.39				153	26.277	-.29
296	22.830	1.56	326	22.015	-.76	029	27.100	.16	--	Method 050.51	--	260	26.250	-.34
377	22.830	1.56	362	21.920	-1.07	Avg	27.061		023	28.030	1.53	027	26.228	-.35
106	22.715	1.34	397	21.913	-1.08	028	27.015	-.21	389	27.750	1.05	372	26.040	-.58
023	22.725	1.27	027	21.884	-1.12	148	27.000	-.25	361	27.195	.11	401	25.750 R	-1.23
397	22.658	1.11	095	21.555	-2.11	095	27.035	-.36	Avg	27.129		262	25.300	-1.49
023	22.650	1.07	260	21.515	-2.18	258	26.930	-.54	007	27.000	-.22	369	24.975	-1.91
296	22.640	1.02	251	21.470	-2.29	137	26.905	-.64	377	26.950	-.31	330	24.960 S	-3.00
414	22.510	.78				043	26.880	-.75	102	26.800	-.56			
351	22.535	.72	--	Method 048.20	--	296	26.830	-.99	251	26.180	-1.61	--	Method 050.XX	--
041	22.470	.67	247	17.765	1.27	162	26.735	-1.35				114	43.870 s	26.89
037	22.490	.60	362	17.370	.31	392	26.410	-2.67	--	Method 050.60	--	390	28.755	2.83
028	22.475	.59	Avg	17.354		414	26.040 A	-4.18	390	28.755	1.06	131	28.525	2.46
211	22.480	.57	363	17.320	-.24	300	22.745 s	-17.68	Avg	27.997		356	27.980 R	1.71
028	22.440	.46	193	16.960	-1.31	009	22.730 s	-17.74	356	27.980	-.56	023	28.030	1.67
322	22.436	.45							288	27.255	-1.03	095	27.865	1.41
360	22.320	.44	--	Method 048.99	--	--	Method 050.10	--	415	24.565 S	-4.79	360	27.675 R	1.24
025	22.395	.33	275	19.870 X	.71	322	27.128	.00				389	27.750	1.23
137	22.395	.33							--	Method 050.61	--	363	27.360 R	1.08
043	22.315	.26	--	Method 048.XX	--	--	Method 050.30	--	030	27.600	1.55	030	27.600	1.00
177	22.317	.11	275	19.870 X	1.83	114	43.870 s	21.76	041	27.335	.97	325	27.600	.99

* 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 050.XX	--	--	Method 101.30	--	--	Method 121.XX	--	--	Method 144.XX	--
177	27.527	.87	376	26.745	-.40	361	6.1800	1.31	102	0.2864	.68	401	0.6720	.27
416	27.500	.83	275	26.645 X	-.58	131	5.9550 R	1.21	324	0.2800	.67	Avg	0.6213	
041	27.335	.64	040	26.885 R	-.59	009	6.0462	.75	Avg	0.2759		193	0.2600	-1.92
035	27.340	.61	247	26.535	-.71	096	6.0400	.73	009	0.2734	-.15	247	0.2550	-1.95
025	27.340	.57	142	26.450	-.84	Avg	5.8667		131	0.2725	-.21			
090	27.305	.53	392	26.410	-.91	324	5.6750	-.82	043	0.2750	-.31	--	Method 151.30	--
397	27.313	.53	193	26.350	-1.01	102	5.6542	-.89	247	0.2750	-.31	389	4.1500	.98
345	27.275	.51	405	26.285	-1.11	035	5.6050	-1.10	035	0.2465	-1.82	247	3.7500	.52
037	27.275	.48	153	26.277	-1.12				096	0.2700 R	-1.90	Avg	3.6869	
350	27.270	.46	260	26.250	-1.17	--	Method 101.XX	--	193	0.1345 s	-8.77	102	3.1608	-1.13
288	27.255	.44	027	26.228	-1.20	361	6.1800	1.29						
057	27.225	.39	251	26.180	-1.28	131	5.9550 R	1.25	--	Method 131.00	--	--	Method 151.99	--
326	27.220	.38	324	26.190	-1.28	009	6.0462	.70	193	0.0300	.00	409	5.0000	.85
211	27.190	.35	372	26.040	-1.50	096	6.0400	.68				Avg	4.4750	
028	27.195	.35	414	26.040	-1.50	043	6.0100	.58	--	Method 144.01	--	220	3.9500	-.88
361	27.195	.34	401	25.750 R	-2.21	Avg	5.8872		043	0.7250	.60			
220	27.190	.33	262	25.300	-2.67	324	5.6750	-.96	288	0.7200	.57	--	Method 151.XX	--
136	27.175	.33	351	25.227	-2.79	102	5.6542	-1.03	102	0.6946	.45	409	5.0000	1.52
391	27.100	.25	369	24.975 A	-3.20	035	5.6050	-1.25	Avg	0.5999		389	4.1500	.32
049	27.105	.24	415	24.565 s	-3.85				193	0.2600	-1.62	Avg	4.0022	
322	27.128	.24	330	24.960 s	-4.38	--	Method 121.00	--				220	3.9500	-.24
029	27.100	.19	185	24.000 s	-4.74	086	0.2980	1.05	--	Method 144.99	--	247	3.7500	-.54
234	27.095	.18	300	22.745 s	-6.74	Avg	0.2865		035	0.7490	.63	102	3.1608	-1.32
095	27.035	.16	009	22.730 s	-6.77	043	0.2750	-.64	096	0.7350	.55			
028	27.015	.07	106	22.230 s	-7.57	193	0.1345 S	-7.74	009	0.7029	.37	--	Method 165.99	--
148	27.000	.04							324	0.7000	.36	009	0.0216	.71
007	27.000	.03	--	Method 060.00	--	--	Method 121.30	--	401	0.6720	.20			
029	26.990	.02	193	1.5450	2.01	102	0.2864	1.03	Avg	0.6356		--	Method 181.00	--
Avg	26.980		Avg	0.9112		324	0.2800	.91	247	0.2550	-2.12	193	2.8500 S	4.99
258	26.930	-.08	362	0.8900	-.07	247	0.2750	.41				220	2.1000	1.31
157	26.980	-.08	363	0.9000	-.10	009	0.2734	.08	--	Method 144.XX	--	Avg	1.8609	
377	26.950	-.09	416	0.8271	-.29	131	0.2725	.04	035	0.7490	.68	300	1.7500	-.61
137	26.905	-.12	007	0.6550	-.82	Avg	0.2723		096	0.7350	.61	397	1.7327	-.65
043	26.880	-.17	361	0.6500	-.83	035	0.2465	-1.85	043	0.7250	.55			
232	26.835	-.24				096	0.2700 R	-2.16	288	0.7200	.52	--	Method 181.30	--
296	26.830	-.26	--	Method 101.00	--				009	0.7029	.43	324	2.1500	1.62
102	26.800	-.29	043	6.0100	.71	--	Method 121.XX	--	324	0.7000	.42	035	2.0200	1.29
162	26.735	-.40				086	0.2980	1.73	102	0.6946	.39	096	2.0000	.40

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 181.30	--	--	Method 190.XX	--	--	Method 202.30	--	--	Method 221.30	--	--	Method 241.30	--
389	2.0000	.40	009	21.296	.87	232	1.6500	-.47	330	0.0007	.12	324	0.5350	1.14
157	1.9350	.03	Avg	21.026		389	1.3500	-.79	389	0.0007	.12	131	0.5050	.34
Avg	1.9348		027	20.755	-.86	324	1.2500	-.95	Avg	0.0007		057	0.5030	.27
232	1.8800	-.36							324	0.0006	-.67	247	0.5000	.18
102	1.9078	-.43	--	Method 191.00	--	--	Method 202.99	--	035	0.0005 R	-.82	Avg	0.4935	
009	1.8050	-.90	193	39.500	.87	409	3.0000	.87	157	0.0003	-2.25	102	0.4803	-.43
106	1.9000	-1.26	Avg	38.500		Avg	2.5000		--	Method 221.99	--	035	0.4565	-1.01
376	1.7500	-1.47	220	37.500	-.87	320	2.0000	-.87	409	0.0013	.73	009	0.4285	-1.78
247	0.5000 s	-8.88							Avg	0.0011		--	Method 241.XX	--
--	Method 181.99	--	--	Method 191.30	--	--	Method 202.XX	--	220	0.0010	-.98	096	0.5400	1.27
409	2.0000	.00	096	58.800	1.81	193	6.5000 R	3.53	096	0.5400	1.27	324	0.5350	1.14
			009	39.215	.11	220	5.0000	2.22	324	0.5350	1.14	131	0.5050	.34
			Avg	39.094		009	3.8200	1.21	--	Method 221.XX	--	057	0.5030	.27
--	Method 181.XX	--	035	35.000	-.38	409	3.0000	.50	086	0.0035 s	6.19	247	0.5000	.18
193	2.8500 s	5.64	102	32.403	-.61	Avg	2.4107		029	0.0025 s	3.91	Avg	0.4935	
324	2.1500	1.65	247	30.050	-.83	102	2.1873	-.22	390	0.0020	2.55	102	0.4803	-.43
035	2.0200	1.30				320	2.0000	-.35	247	0.0014	1.08	035	0.4565	-1.01
220	2.1000	1.23	--	Method 191.XX	--	106	1.9500	-.40	193	0.0013	.91	009	0.4285	-1.78
096	2.0000	.46	096	58.800	2.19	247	1.9000	-.51	409	0.0013	.80	193	0.2605 s	-6.36
389	2.0000	.46	009	39.215	.13	232	1.6500	-.66	234	0.0011 R	.50			
409	2.0000	.46	193	39.500	.08	389	1.3500	-.91	220	0.0010 R	.36	--	Method 251.00	--
157	1.9350	.08	Avg	38.924		324	1.2500	-1.02	Avg	0.0009		220	5.0000	1.28
Avg	1.9236		220	37.500	-.17				102	0.0008	-.17	Avg	2.6444	
232	1.8800	-.29	035	35.000	-.43	--	Method 221.00	--	106	0.0008	-.27	193	1.7000	-.54
102	1.9078	-.40	102	32.403	-.72	086	0.0035 S	4.28	232	0.0008	-.35	397	1.2333 X	-.76
009	1.8050	-.82	247	30.050	-.98	029	0.0025 S	2.40	009	0.0008	-.36			
300	1.7500	-1.10				390	0.0020	1.20	330	0.0007	-.50	--	Method 251.30	--
397	1.7327	-1.16	--	Method 202.00	--	Avg	0.0014		389	0.0007	-.50	324	8.1500	1.57
106	1.9000	-1.22	193	6.5000	.94	193	0.0013	-.18	324	0.0006	-.81	247	5.2500	.30
376	1.7500	-1.39	Avg	5.7500		234	0.0011 R	-.61	035	0.0005	-.86	376	4.9500	.14
247	0.5000 s	-8.66	220	5.0000	-.78	397	0.0009	-1.01	157	0.0003	-1.44	Avg	4.7630	
												389	3.6000	-.52
--	Method 190.00	--	--	Method 202.30	--	--	Method 221.30	--	--	Method 241.00	--	157	1.8650	-1.29
027	20.755	-.71	009	3.8200	2.13	247	0.0014 s	4.11	193	0.2605 S	.00			
			102	2.1873	.25	102	0.0008	.99				--	Method 251.99	--
			Avg	2.0153		106	0.0008	.71				409	8.0000	.00
--	Method 190.99	--	106	1.9500	-.10	232	0.0008	.52	--	Method 241.30	--			
009	21.296	.71	247	1.9000	-.38	009	0.0008	.47	096	0.5400	1.27			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 251.XX	--	--	Method 281.30	--	--	Method 289.XX	--	--	Method 301.30	--	--	Method 321.00	--
324	8.1500 R	1.93	376	0.1050	.71	389	4.0000	-.86	247	1.0500	.71	029	0.0060	1.69
409	8.0000	1.81				106	3.9500	-.94				028	0.0038	.07
247	5.2500	.62	--	Method 281.99	--				--	Method 301.99	--	Avg	0.0037	
220	5.0000	.47	220	0.0200	.00	--	Method 291.00	--	220	0.2500	1.07	095	0.0035	-.19
376	4.9500	.46				193	15.500	.87	389	0.2050	.12	397	0.0031	-.40
Avg	3.9498		--	Method 281.XX	--	Avg	11.375		Avg	0.2033		193	0.0020	-1.20
389	3.6000	-.16	376	0.1050	.89	220	7.2500	-.86	131	0.1550	-1.16			
157	1.8650	-.93	Avg	0.0625								--	Method 321.30	--
193	1.7000	-1.02	220	0.0200	-.84	--	Method 291.30	--	--	Method 301.XX	--	057	0.0061	2.03
397	1.2333 X	-1.22				247	8.8000	.98	247	1.0500	1.61	009	0.0056	1.52
			--	Method 289.30	--	102	8.3798	.62	Avg	0.4150		330	0.0046	.53
--	Method 261.00	--	009	8.5300 s	10.82	157	8.3400	.58	220	0.2500	-.42	389	0.0045	.42
Avg	0.0170		057	5.0000	1.74	232	8.1000	.45	389	0.2050	-.53	Avg	0.0041	
086	0.0170	-.71	247	4.4000 R	1.04	096	8.0000	.28	131	0.1550	-.66	324	0.0038	-.41
193	0.0105 S	-4.61	232	4.6500	.94	Avg	7.6818					247	0.0037	-.46
			102	4.3530	.11	009	7.5850	-.36	--	Method 311.00	--	232	0.0036	-.49
--	Method 261.30	--	Avg	4.3126		376	6.9000	-1.04	193	0.2965	.71	106	0.0036	-.52
096	0.0166	1.18	157	4.1350	-.45	324	5.3500	-2.08				102	0.0034	-.67
247	0.0163	.80	389	4.0000	-.79				--	Method 311.99	--	035	0.0032	-.88
324	0.0163	.75	106	3.9500	-.93	--	Method 291.99	--	096	1.0000	1.85	157	0.0029	-1.24
Avg	0.0157		324	4.1000	-.93	409	28.000 S	44.08	Avg	0.6684				
057	0.0155	-.33				035	6.4950	.71	102	0.6279	-.23	--	Method 321.99	--
102	0.0153	-.65	--	Method 289.99	--	Avg	6.4950		009	0.6123	-.32	320	0.0350 S	13.19
009	0.0154	-.81	409	6.0000	.82				324	0.5850	-.47	409	0.0084	1.26
035	0.0144	-1.65	Avg	5.4750		--	Method 291.XX	--	035	0.5170	-.85	Avg	0.0055	
			220	4.9500	-.91	409	28.000 s	18.72				096	0.0046	-.42
--	Method 261.XX	--				193	15.500 A	7.31	--	Method 311.XX	--	220	0.0036	-.86
086	0.0170	1.62	--	Method 289.XX	--	247	8.8000	1.17	096	1.0000	1.81			
096	0.0166	.82	009	8.5300 s	6.05	102	8.3798	.79	102	0.6279	.10	--	Method 321.XX	--
247	0.0163	.50	409	6.0000	2.16	157	8.3400	.75	009	0.6123	.04	320	0.0350 s	21.46
324	0.0163	.47	220	4.9500	.69	232	8.1000	.60	Avg	0.6064		390	0.0165 s	8.59
Avg	0.0158		057	5.0000	.65	096	8.0000	.44	324	0.5850	-.10	409	0.0084	2.88
057	0.0155	-.44	232	4.6500	.26	009	7.5850	.37	035	0.5170	-.41	234	0.0075 R	2.32
102	0.0153	-.69	Avg	4.5709		Avg	7.5200		193	0.2965	-1.43	057	0.0061	1.32
009	0.0154	-.76	102	4.3530	-.33	220	7.2500	-.40				029	0.0060	1.25
035	0.0144	-1.57	247	4.4000 R	-.66	035	6.4950	-.99	--	Method 321.00	--	009	0.0056	.97
193	0.0105 s	-5.67	157	4.1350	-.66	376	6.9000	-1.00	390	0.0165 S	9.34	096	0.0046	.30
			324	4.1000	-.84	324	5.3500	-2.03	234	0.0075 R	2.80	330	0.0046	.29

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

Laboratory Averages & Accuracy Indexes

<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
--	Method 321.XX	--												
389	0.0045	.21												
Avg	0.0042													
028	0.0038	-.31												
324	0.0038	-.34												
247	0.0037	-.39												
232	0.0036	-.42												
106	0.0036	-.44												
220	0.0036	-.44												
095	0.0035	-.53												
102	0.0034	-.54												
035	0.0032	-.69												
397	0.0031	-.75												
157	0.0029	-.93												
193	0.0020	-1.52												

* 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
001.99	2	0.0000	1.16	0.27	101.30	7	0.0528	0.96	0.44
001.XX	2	0.0000	1.16	0.27	101.XX	8	0.0374	0.96	0.44
009.10	2	0.0000	0.18	0.86	121.00	3	-2.5800	4.51	0.52
009.XX	2	0.0000	0.18	0.86	121.30	7	-0.0236	0.90	0.87
010.11	12	-0.0378	0.97	0.20	121.XX	10	-0.9132	2.88	0.72
010.12	9	0.0000	0.97	0.34	144.01	4	0.0000	1.08	0.03
010.60	47	0.0681	1.00	0.36	144.99	6	0.0000	1.05	0.03
010.99	6	0.0000	1.04	0.15	144.XX	10	0.0000	1.03	0.03
010.XX	70	0.1395	1.14	0.35	151.30	3	0.0000	1.00	0.41
020.10	7	0.1292	1.01	0.35	151.99	2	0.0000	1.20	0.17
020.20	17	-0.0534	1.51	0.28	151.XX	5	0.0000	1.02	0.26
020.40	6	0.0000	0.63	0.77	181.00	4	1.2464	2.63	0.31
020.50	4	-0.6088	1.80	1.57	181.30	11	-0.8075	2.76	0.67
020.99	2	0.0000	1.22	0.09	181.XX	16	-0.1889	2.76	0.58
020.XX	37	-0.2134	1.51	1.02	190.XX	2	0.0000	1.22	0.09
030.20	2	0.0000	1.22	0.04	191.00	2	0.0000	1.10	0.39
030.40	3	0.0000	1.10	0.15	191.30	5	0.0000	1.06	0.08
030.XX	7	0.0000	1.03	0.12	191.XX	7	0.0000	1.04	0.09
040.20	3	0.0000	1.12	0.04	202.00	2	0.0000	1.11	0.37
040.40	2	0.0000	0.42	0.81	202.30	7	0.0000	1.02	0.20
040.XX	7	0.0000	1.04	0.07	202.99	2	0.0000	1.22	0.00
041.10	18	0.0000	0.95	0.34	202.XX	11	0.3181	1.43	0.17
041.20	4	0.0000	1.06	0.20	221.00	6	0.9614	1.97	0.58
041.40	5	0.0000	1.05	0.10	221.30	10	0.3339	1.63	0.13
041.50	7	0.4385	1.49	0.44	221.99	2	0.0000	0.98	0.52
041.60	10	-0.4538	1.71	0.36	221.XX	18	0.5735	1.86	0.41
041.XX	39	0.0239	1.08	0.34	241.30	8	0.0000	1.03	0.11
048.20	4	0.0000	1.02	0.31	241.XX	9	-0.7071	2.33	0.11
048.XX	5	0.0000	1.06	0.08	251.00	3	0.0000	1.11	0.09
050.00	24	-1.4000	5.32	0.22	251.30	5	0.0000	1.03	0.22
050.30	11	1.6833	6.79	0.15	251.XX	9	0.2088	1.15	0.17
050.50	3	-3.0750	5.39	0.34	261.00	2	-2.2981	3.25	0.56
050.51	7	0.0000	1.04	0.07	261.30	7	0.0000	0.97	0.35
050.60	4	-1.1962	2.54	0.29	261.XX	9	-0.6271	2.06	0.47
050.61	7	0.0000	0.89	0.50	281.XX	2	0.0000	1.19	0.21
050.99	16	-0.1127	1.08	0.65	289.30	9	1.2138	3.66	0.69
050.XX	70	-0.1291	3.79	0.43	289.99	2	0.0000	1.16	0.28
060.00	6	0.0000	1.05	0.07	289.XX	11	0.5202	2.02	0.39
060.XX	6	0.0000	1.05	0.07	291.00	2	0.0000	1.22	0.09

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
291.30	8	0.0000	0.96	0.35					
291.99	2	22.0382	31.17	0.50					
291.XX	12	2.1678	5.68	0.35					
301.99	3	0.0000	1.09	0.21					
301.XX	4	0.0000	1.08	0.07					
311.99	5	0.0000	1.06	0.03					
311.XX	6	0.0000	1.05	0.02					
321.00	7	1.7209	3.59	0.43					
321.30	11	0.0000	1.01	0.14					
321.99	4	3.2795	6.62	0.67					
321.XX	21	1.3954	5.02	0.52					