



Agriculture Laboratory Proficiency (ALP) Program

Performance Analysis Report - Test Cycle 28

CTS Lab Code: U6291A

Web Code: FQP3HU for Analysis #802

Analysis # 802: Botanicals Properties

Test Code	Analysis	Units	Samples	Lab Mean	Grand Median	MAD	95% Conf Interval	WithinLab Performance, k	WithinLab Avg STD	Labs Rpt
202	NO3 - N Cd Rd.	mg/kg	SRB1507	20,324.3	20,226.0	605.4	18,470.2 - 21,981.7	0.46	645.3	14
			SRB1508	10.00	43.3	16.4	0.0 - 90.9	0.13	7.49	14
			SRB1509	243.3	217.3	31.6	125.6 - 309.0	1.29	8.7	14
206	PO4 - P	mg/kg	SRB1507	4,231.3	3,930.0	299.0	3,062.9 - 4,797.1	0.79	213.2	11
			SRB1508	1,282.3	1,320.0	83.2	1,078.7 - 1,561.3	0.68	47.7	11
			SRB1509	838.3	913.9	75.5	694.8 - 1,132.9	0.19	63.2	11
208	Cl	Percent	SRB1507	1.17	1.10	0.08	0.87 - 1.33	0.28	0.14	14
			SRB1508	0.078	0.10	0.030	0.01 - 0.18	1.67	0.010	14
			SRB1509	1.38 X	0.14	0.06	0.00 - 0.31	2.70 X	0.02	14
209	TKN	Percent	SRB1507	4.68	4.87	0.26	4.12 - 5.62	0.04	0.52	10
			SRB1508	2.41	2.31	0.10	2.02 - 2.59	0.80	0.07	10
			SRB1509	2.45	2.24	0.09	1.99 - 2.50	0.85	0.14	10
212	P	Percent	SRB1507	0.59	0.61	0.023	0.54 - 0.68	0.75	0.02	31
			SRB1508	0.26	0.26	0.012	0.23 - 0.30	0.32	0.01	31
			SRB1509	0.15	0.15	0.009	0.12 - 0.18	0.49	0.01	31
213	K	Percent	SRB1507	7.16	7.36	0.41	6.17 - 8.56	0.14	0.44	32
			SRB1508	1.34	1.27	0.05	1.12 - 1.41	0.15	0.06	32
			SRB1509	1.28	1.24	0.031	1.15 - 1.33	0.17	0.06	32
214	Ca	Percent	SRB1507	1.19	1.16	0.048	1.03 - 1.30	0.95	0.07	30
			SRB1508	2.02	1.88	0.09	1.61 - 2.16	0.76	0.12	30
			SRB1509	4.31 X	3.89	0.09	3.62 - 4.15	1.29	0.18	30
215	Mg	Percent	SRB1507	1.56	1.46	0.07	1.26 - 1.66	0.17	0.07	31
			SRB1508	0.32	0.29	0.016	0.24 - 0.33	0.25	0.03	31
			SRB1509	0.40	0.36	0.013	0.32 - 0.40	0.53	0.01	31
216	S	Percent	SRB1507	0.41	0.41	0.019	0.35 - 0.47	0.84	0.02	30
			SRB1508	0.29	0.28	0.013	0.24 - 0.32	0.31	0.01	30
			SRB1509	0.24	0.22	0.017	0.18 - 0.27	2.13	0.01	29
217	Na	Percent	SRB1507	3.09	2.89	0.20	2.29 - 3.48	0.15	0.17	25
			SRB1508	0.036	0.027	0.005	0.014 - 0.041	1.31	0.008	25
			SRB1509	0.024	0.020	0.004	0.008 - 0.032	1.69	0.002	25
219	B	mg/kg	SRB1507	27.9	27.9	1.45	23.7 - 32.1	0.45	2.2	28
			SRB1508	64.9	60.6	4.34	48.0 - 73.2	0.36	2.9	28
			SRB1509	82.2	77.3	4.83	63.3 - 91.3	0.23	2.9	28
220	Zn	mg/kg	SRB1507	43.3	42.7	1.13	39.4 - 46.0	0.63	2.3	29
			SRB1508	123.3	108.8	6.88	88.9 - 128.8	0.27	5.2	29
			SRB1509	87.6	81.1	3.98	69.5 - 92.6	0.12	2.4	29
221	Mn	mg/kg	SRB1507	63.3	62.8	2.37	55.9 - 69.6	0.11	3.0	31
			SRB1508	258.4	236.0	11.0	204.1 - 267.9	0.14	29.8	31
			SRB1509	35.2	33.0	2.17	26.8 - 39.3	0.82	1.7	31
222	Fe	mg/kg	SRB1507	445.7	453.5	31.8	361.2 - 545.8	0.09	58.1	30
			SRB1508	152.8	151.9	6.37	133.4 - 170.3	0.73	9.5	30
			SRB1509	109.5	104.5	5.61	88.3 - 120.8	1.12	3.7	30
223	Cu	mg/kg	SRB1507	21.1	20.6	1.27	16.9 - 24.3	0.67	1.2	30
			SRB1508	54.2 X	43.3	2.37	36.4 - 50.1	0.22	2.5	30
			SRB1509	36.4	35.5	1.47	31.3 - 39.8	0.62	1.6	30



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Laboratory Performance Summary - Botanicals Properties

Performance Review of Laboratory-Sample Biases

z-scores calculated using Lab Median and mean average deviation
(numbers closer to zero indicate closer agreement with other laboratories and
scores outside limits in red)

Test Code	Analysis	SRB1507	SRB1508	SRB1509
202	NO3 - N Cd Rd.	0.16	-2.03	0.82
206	PO4 - P	1.01	-0.45	-1.00
208	Cl	0.97	-0.67	21.39
209	TKN	-0.73	1.10	2.33
212	P	-1.00	0.00	-0.16
213	K	-0.48	1.43	1.28
214	Ca	0.53	1.39	4.71
215	Mg	1.54	2.41	2.83
216	S	0.01	0.93	1.24
217	Na	1.00	1.79	1.01
219	B	-0.03	0.99	1.00
220	Zn	0.50	2.11	1.63
221	Mn	0.22	2.04	1.00
222	Fe	-0.24	0.15	0.89
223	Cu	0.40	4.61	0.60