



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	SRB1301	1,475.0	1,476.7	58.2	<b>1,307.9 - 1,645.4</b>	0.33	60.2	13
			SRB1302	354.3	321.0	19.0	<b>265.9 - 376.1</b>	0.27	26.4	13
			SRB1303	6,929.3	6,490.0	439.3	<b>5,215.9 - 7,764.1</b>	0.20	150.5	13
206	PO4 - P	mg/kg	SRB1301	3,093.7	3,329.0	117.6	<b>2,987.9 - 3,670.2</b>	0.49	62.5	11
			SRB1302	2,151.0	2,042.3	108.7	<b>1,727.0 - 2,357.6</b>	0.15	83.4	11
			SRB1303	3,008.3	3,086.7	100.0	<b>2,796.7 - 3,376.7</b>	0.17	74.2	11
209	TKN	Percent	SRB1301	2.96	2.85	0.14	<b>2.43 - 3.27</b>	0.28	0.08	10
			SRB1302	3.43	3.33	0.14	<b>2.93 - 3.73</b>	0.08	0.10	10
			SRB1303	3.47	3.37	0.20	<b>2.80 - 3.95</b>	0.44	0.10	10
212	P	Percent	SRB1301	0.54	0.52	0.027	<b>0.44 - 0.60</b>	1.15	0.02	22
			SRB1302	0.40	0.39	0.021	<b>0.33 - 0.45</b>	1.71	0.01	22
			SRB1303	0.42	0.41	0.019	<b>0.35 - 0.46</b>	0.58	0.01	22
213	K	Percent	SRB1301	2.55	2.43	0.09	<b>2.16 - 2.70</b>	0.14	0.10	23
			SRB1302	4.21	4.03	0.22	<b>3.40 - 4.66</b>	0.53	0.12	23
			SRB1303	3.91	3.74	0.15	<b>3.31 - 4.18</b>	0.89	0.14	23
214	Ca	Percent	SRB1301	1.29	1.24	0.06	<b>1.05 - 1.43</b>	0.84	0.05	22
			SRB1302	0.43	0.40	0.030	<b>0.31 - 0.48</b>	1.51	0.01	22
			SRB1303	1.54	1.49	0.05	<b>1.33 - 1.64</b>	2.24 X	0.05	22
215	Mg	Percent	SRB1301	0.55 X	0.48	0.020	<b>0.42 - 0.53</b>	1.25	0.02	21
			SRB1302	0.20	0.18	0.010	<b>0.15 - 0.21</b>	1.08	0.01	21
			SRB1303	0.34 X	0.30	0.010	<b>0.27 - 0.33</b>	1.39	0.01	21
216	S	Percent	SRB1301	0.24	0.23	0.017	<b>0.18 - 0.28</b>	0.63	0.01	23
			SRB1302	0.36	0.35	0.018	<b>0.30 - 0.40</b>	1.98	0.01	23
			SRB1303	0.73	0.72	0.035	<b>0.62 - 0.82</b>	1.64	0.02	23
217	Na	Percent	SRB1301	0.034 X	0.006	0.004	<b>0.000 - 0.018</b>	3.18 X	0.003	17
			SRB1302	0.029 X	0.007	0.003	<b>0.000 - 0.016</b>	0.67	0.001	17
			SRB1303	0.99	0.89	0.037	<b>0.78 - 0.99</b>	0.25	0.03	18
219	B	mg/kg	SRB1301	38.5	34.3	2.59	<b>26.8 - 41.8</b>	0.76	1.1	17
			SRB1302	6.15	4.13	1.27	<b>0.46 - 7.81</b>	0.73	0.60	17
			SRB1303	29.1	24.9	2.55	<b>17.5 - 32.3</b>	0.88	1.2	17
220	Zn	mg/kg	SRB1301	41.2	36.8	2.65	<b>29.1 - 44.5</b>	0.67	2.4	22
			SRB1302	27.2	25.2	2.68	<b>17.4 - 32.9</b>	1.02	2.6	22
			SRB1303	32.1	30.6	1.85	<b>25.2 - 35.9</b>	0.26	2.1	22
221	Mn	mg/kg	SRB1301	75.7	68.0	3.67	<b>57.4 - 78.6</b>	0.18	2.9	21
			SRB1302	64.5	59.7	3.28	<b>50.1 - 69.2</b>	0.65	2.6	21
			SRB1303	42.7	39.6	2.64	<b>32.0 - 47.3</b>	0.91	1.7	21
222	Fe	mg/kg	SRB1301	86.7	120.5	13.3	<b>81.8 - 159.2</b>	0.36	13.3	22
			SRB1302	128.2	116.6	9.90	<b>87.9 - 145.3</b>	0.21	8.4	22
			SRB1303	729.5	666.1	70.3	<b>462.3 - 869.9</b>	0.57	28.3	22
223	Cu	mg/kg	SRB1301	7.78	6.57	0.43	<b>5.31 - 7.82</b>	0.22	0.52	21
			SRB1302	5.04 X	4.00	0.33	<b>3.03 - 4.97</b>	0.24	0.53	21
			SRB1303	9.50	8.33	0.73	<b>6.21 - 10.46</b>	0.57	0.68	21

## Agriculture Laboratory Proficiency (ALP) Program

Performance Analysis Report - Test Cycle 20

CTS Lab Code: U6291A

### 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	SRB1301	SRB1302	SRB1303
202	NO3 - N Cd Rd.	-0.03	1.75	1.00
206	PO4 - P	-2.00	1.00	-0.78
209	TKN	0.74	0.75	0.48
212	P	1.01	0.64	0.47
213	K	1.34	0.81	1.16
214	Ca	0.79	1.11	0.91
215	Mg	3.52	2.00	3.90
216	S	0.30	0.58	0.41
217	Na	6.92	6.81	2.78
219	B	1.63	1.59	1.62
220	Zn	1.64	0.76	0.85
221	Mn	2.09	1.48	1.14
222	Fe	-2.53	1.18	0.90
223	Cu	2.79	3.13	1.59