



Cylindrospermopsin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB34019	Field Blank	8/20/2018	8/23/2018	< 0.05
AB34012	Raccoon Lake SRA	8/20/2018	8/23/2018	< 0.05
AB34018	Raccoon Lake (Field Duplicate)	8/20/2018	8/23/2018	< 0.05
AB34014	Paynetown SRA	8/20/2018	8/23/2018	< 0.05
AB34013	Fairfax SRA	8/20/2018	8/23/2018	< 0.05
AB34015	Hardy Lake SRA	8/20/2018	8/23/2018	< 0.05
AB34010	Dog Park Lake	8/20/2018	8/23/2018	0.77
AB34017	Whitewater Memorial SP	8/21/2018	8/23/2018	< 0.05
AB34011	Quakertown SRA	8/21/2018	8/23/2018	< 0.05
AB34016	Mounds SRA	8/21/2018	8/23/2018	< 0.05
AB34016LD	Mounds (Lab Duplicate)	8/21/2018	8/23/2018	< 0.05
20180821LB	Lab Blank	8/21/2018	8/23/2018	< 0.05



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
8/23/2018 11:18:51 AM						
Std1	Cylindrospermopsin 1X	1.055 Abs	< 0.000 ng/mL		0.000	A01
Std1	Cylindrospermopsin 1X	1.055 Abs	< 0.000 ng/mL		0.000	B01
Std2	Cylindrospermopsin 1X	0.878 Abs	0.045 ng/mL		0.050	C01
Std2	Cylindrospermopsin 1X	0.856 Abs	0.054 ng/mL		0.050	D01
Std3	Cylindrospermopsin 1X	0.741 Abs	0.116 ng/mL		0.100	E01
Std3	Cylindrospermopsin 1X	0.777 Abs	0.093 ng/mL		0.100	F01
Std4	Cylindrospermopsin 1X	0.589 Abs	0.275 ng/mL		0.250	G01
Std4	Cylindrospermopsin 1X	0.633 Abs	0.216 ng/mL		0.250	H01
Std5	Cylindrospermopsin 1X	0.486 Abs	0.498 ng/mL		0.500	A02
Std5	Cylindrospermopsin 1X	0.499 Abs	0.460 ng/mL		0.500	B02
Std6	Cylindrospermopsin 1X	0.363 Abs	1.178 ng/mL		1.000	C02
Std6	Cylindrospermopsin 1X	0.373 Abs	1.085 ng/mL		1.000	D02
Std7	Cylindrospermopsin 1X	0.292 Abs	> 2.000 ng/mL		2.000	E02
Std7	Cylindrospermopsin 1X	0.339 Abs	1.458 ng/mL		2.000	F02
Normal Control	Cylindrospermopsin 1X	0.414 Abs	0.796 ng/mL			G02
Normal Control	Cylindrospermopsin 1X	0.458 Abs	0.593 ng/mL			H02
AB34019	Cylindrospermopsin 1X	1.084 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	A03
AB34019	Cylindrospermopsin 1X	1.092 Abs [1.0880] {0.5 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	B03
AB34012	Cylindrospermopsin 1X	1.065 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	C03
AB34012	Cylindrospermopsin 1X	1.062 Abs [1.0635] {0.2 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	D03
AB34018	Cylindrospermopsin 1X	1.061 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	E03
AB34018	Cylindrospermopsin 1X	1.103 Abs [1.0820] {2.7 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	F03
AB34014	Cylindrospermopsin 1X	1.059 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	G03
AB34014	Cylindrospermopsin 1X	1.077 Abs [1.0680] {1.2 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	H03
AB34013	Cylindrospermopsin 1X	1.020 Abs	0.005 ng/mL	LOW	0.050 - 2.000	A04
AB34013	Cylindrospermopsin 1X	1.058 Abs [1.0390] {2.6 CV}	< 0.000 ng/mL [0.002]	Out(LR) [Low]	0.050 - 2.000	B04
AB34015	Cylindrospermopsin 1X	1.018 Abs	0.005 ng/mL	LOW	0.050 - 2.000	C04
AB34015	Cylindrospermopsin 1X	1.016 Abs [1.0170] {0.1 CV}	0.006 ng/mL [0.006] {12.9 CV}	Low [Low]	0.050 - 2.000	D04
AB34010	Cylindrospermopsin 1X	0.392 Abs	0.935 ng/mL		0.050 - 2.000	E04
AB34010	Cylindrospermopsin 1X	0.446 Abs [0.4190] {9.1 CV}	0.640 ng/mL [0.769] {26.5 CV}		0.050 - 2.000	F04
AB34017	Cylindrospermopsin 1X	1.082 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	G04
AB34017	Cylindrospermopsin 1X	1.086 Abs [1.0840] {0.3 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	H04
AB34011	Cylindrospermopsin 1X	1.056 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	A05
AB34011	Cylindrospermopsin 1X	1.081 Abs [1.0685] {1.7 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	B05
AB34016	Cylindrospermopsin 1X	1.022 Abs	0.005 ng/mL	LOW	0.050 - 2.000	C05
AB34016	Cylindrospermopsin 1X	1.039 Abs [1.0305] {1.2 CV}	0.002 ng/mL [0.003] {60.6 CV}	Low [Low]	0.050 - 2.000	D05
AB34016LD	Cylindrospermopsin 1X	1.027 Abs	0.004 ng/mL	LOW	0.050 - 2.000	E05
AB34016LD	Cylindrospermopsin 1X	1.086 Abs [1.0565] {3.9 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	F05
20180821LB	Cylindrospermopsin 1X	1.063 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	G05
20180821LB	Cylindrospermopsin 1X	1.110 Abs [1.0865] {3.1 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	H05

The data in this report is preliminary without a quality control report. This data is not warranted for accuracy or other purposes.

Laboratory Analyst Signature

8/23/2018

Date



Assay Calibration Report

Assay Information

Assay Name: Cylindrospermopsin 1X
Assay Mode: 4-Parameter Logistic Weight by:None
Normal: 0.050 - 2.000

Units: ng/mL
of decimals: 3
Assay Description:

Controls:
Normal Control
Standards:
Std1, Concentration = 0.000, Minimum number to use: 2
Std2, Concentration = 0.050, Minimum number to use: 2
Std3, Concentration = 0.100, Minimum number to use: 2
Std4, Concentration = 0.250, Minimum number to use: 2
Std5, Concentration = 0.500, Minimum number to use: 2
Std6, Concentration = 1.000, Minimum number to use: 2
Std7, Concentration = 2.000, Minimum number to use: 2
Curve valid interval: 7 days 0 hours

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
8/23/2018 11:18:51 AM			
Std1	1.055 Abs	< 0.000 ng/mL	A01
Std1	1.055 Abs	< 0.000 ng/mL	B01
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8/23/2018 11:18:51 AM			
Normal Control	0.458 Abs	0.593 ng/mL	H02
Normal Control	0.414 Abs	0.796 ng/mL	G02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.055	0.000	0.00				
Std2	0.867	0.016	1.79	0.050	0.006	12.86	-0.00
Std3	0.759	0.025	3.35	0.104	0.016	15.56	4.00
Std4	0.611	0.031	5.09	0.245	0.042	16.99	-2.00
Std5	0.493	0.009	1.87	0.479	0.027	5.61	-4.20
Std6	0.368	0.007	1.92	1.132	0.066	5.81	13.20
Std7	0.315	0.033	10.53				-100.00
Normal Control	0.436	0.031	7.14	0.694	0.144	20.67	

