



Cylindrospermopsin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB33948	Quakertown SRA	8/7/2018	8/9/2018	< 0.05
AB33949	Mounds SRA	8/7/2018	8/9/2018	< 0.05
AB33950	Raccoon Lake SRA	8/6/2018	8/9/2018	< 0.05
AB33951	Deam Lake SRA	8/7/2018	8/9/2018	< 0.05
AB33952	Hardy Lake SRA	8/7/2018	8/9/2018	< 0.05
AB33953	Fairfax SRA	8/6/2018	8/9/2018	< 0.05
AB33954	Paynetown SRA	8/6/2018	8/9/2018	< 0.05
AB33955	Starve Hollow SRA	8/6/2018	8/9/2018	< 0.05
AB33956	Whitewater Memorial SP	8/7/2018	8/9/2018	< 0.05
AB33957	Raccoon Lake (Field Duplicate)	8/6/2018	8/9/2018	< 0.05
AB33958	Field Blank	8/6/2018	8/9/2018	< 0.05
AB33959	Dog Park Lake	8/6/2018	8/9/2018	0.10
AB33954LD	Paynetown (Lab Duplicate)	8/6/2018	8/9/2018	< 0.05
20180807LB	Lab Blank	8/7/2018	8/9/2018	< 0.05



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
8/9/2018 12:56:49 PM						
Std1	Cylindrospermopsin 1X	1.040 Abs	< 0.000 ng/mL		0.000	A01
Std1	Cylindrospermopsin 1X	1.030 Abs	0.000 ng/mL		0.000	B01
Std2	Cylindrospermopsin 1X	0.844 Abs	0.051 ng/mL		0.050	C01
Std2	Cylindrospermopsin 1X	0.842 Abs	0.052 ng/mL		0.050	D01
Std3	Cylindrospermopsin 1X	0.722 Abs	0.121 ng/mL		0.100	E01
Std3	Cylindrospermopsin 1X	0.782 Abs	0.081 ng/mL		0.100	F01
Std4	Cylindrospermopsin 1X	0.590 Abs	0.264 ng/mL		0.250	G01
Std4	Cylindrospermopsin 1X	0.613 Abs	0.231 ng/mL		0.250	H01
Std5	Cylindrospermopsin 1X	0.495 Abs	0.469 ng/mL		0.500	A02
Std5	Cylindrospermopsin 1X	0.494 Abs	0.472 ng/mL		0.500	B02
Std6	Cylindrospermopsin 1X	0.385 Abs	1.025 ng/mL		1.000	C02
Std6	Cylindrospermopsin 1X	0.357 Abs	1.309 ng/mL		1.000	D02
Std7	Cylindrospermopsin 1X	0.293 Abs	> 2.000 ng/mL		2.000	E02
Std7	Cylindrospermopsin 1X	0.355 Abs	1.333 ng/mL		2.000	F02
Normal Control	Cylindrospermopsin 1X	0.423 Abs	0.764 ng/mL			G02
Normal Control	Cylindrospermopsin 1X	0.451 Abs	0.626 ng/mL			H02
AB33948	Cylindrospermopsin 1X	1.041 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	A03
AB33948	Cylindrospermopsin 1X	1.064 Abs [1.0525] {1.5 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	B03
AB33949	Cylindrospermopsin 1X	1.064 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	C03
AB33949	Cylindrospermopsin 1X	1.031 Abs [1.0475] {2.2 CV}	0.000 ng/mL [< 0.000]	Low [Out(LR)]	0.050 - 2.000	D03
AB33950	Cylindrospermopsin 1X	1.059 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	E03
AB33950	Cylindrospermopsin 1X	1.058 Abs [1.0585] {0.1 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	F03
AB33951	Cylindrospermopsin 1X	1.000 Abs	0.005 ng/mL	LOW	0.050 - 2.000	G03
AB33951	Cylindrospermopsin 1X	1.026 Abs [1.0130] {1.8 CV}	0.001 ng/mL [0.003] {94.3 CV}	Low [Low]	0.050 - 2.000	H03
AB33952	Cylindrospermopsin 1X	1.026 Abs	0.001 ng/mL	LOW	0.050 - 2.000	A04
AB33952	Cylindrospermopsin 1X	1.073 Abs [1.0495] {3.2 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	B04
AB33953	Cylindrospermopsin 1X	1.045 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	C04
AB33953	Cylindrospermopsin 1X	1.037 Abs [1.0410] {0.5 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	D04
AB33954	Cylindrospermopsin 1X	1.036 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	E04
AB33954	Cylindrospermopsin 1X	1.090 Abs [1.0630] {3.6 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	F04
AB33955	Cylindrospermopsin 1X	1.046 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	G04
AB33955	Cylindrospermopsin 1X	1.052 Abs [1.0490] {0.4 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	H04
AB33956	Cylindrospermopsin 1X	1.045 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	A05
AB33956	Cylindrospermopsin 1X	1.053 Abs [1.0490] {0.5 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	B05
AB33957	Cylindrospermopsin 1X	1.033 Abs	0.000 ng/mL	LOW	0.050 - 2.000	C05
AB33957	Cylindrospermopsin 1X	1.032 Abs [1.0325] {0.1 CV}	0.000 ng/mL [0.000]	Low [Low]	0.050 - 2.000	D05
AB33958	Cylindrospermopsin 1X	1.058 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	E05
AB33958	Cylindrospermopsin 1X	1.087 Abs [1.0725] {1.9 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	F05
AB33959	Cylindrospermopsin 1X	0.748 Abs	0.102 ng/mL		0.050 - 2.000	G05
AB33959	Cylindrospermopsin 1X	0.749 Abs [0.7485] {0.1 CV}	0.102 ng/mL [0.102] {0.0 CV}		0.050 - 2.000	H05
AB33954LD	Cylindrospermopsin 1X	0.856 Abs	0.046 ng/mL	LOW	0.050 - 2.000	A06
AB33954LD	Cylindrospermopsin 1X	0.963 Abs [0.9095] {8.3 CV}	0.012 ng/mL [0.027] {82.9 CV}	Low [Low]	0.050 - 2.000	B06
20180807LB	Cylindrospermopsin 1X	1.030 Abs	0.000 ng/mL	LOW	0.050 - 2.000	C06
20180807LB	Cylindrospermopsin 1X	1.034 Abs [1.0320] {0.3 CV}	0.000 ng/mL [0.000]	Low [Low]	0.050 - 2.000	D06

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

8/9/2018

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
8/9/2018 12:56:49 PM			
Std1	1.040 Abs	< 0.000 ng/mL	A01
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Std7	0.355 Abs	1.333 ng/mL	F02
8/9/2018 12:56:49 PM			
Normal Control	0.451 Abs	0.626 ng/mL	H02
Normal Control	0.423 Abs	0.764 ng/mL	G02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.035	0.007	0.68				
Std2	0.843	0.001	0.17	0.052	0.001	1.37	4.00
Std3	0.752	0.042	5.64	0.101	0.028	28.00	1.00
Std4	0.601	0.016	2.70	0.248	0.023	9.43	-0.80
Std5	0.494	0.001	0.14	0.470	0.002	0.45	-6.00
Std6	0.371	0.020	5.34	1.167	0.201	17.21	16.70
Std7	0.324	0.044	13.53				-100.00
Normal Control	0.437	0.020	4.53	0.695	0.098	14.04	

