Cylindrospermopsin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB18766	Field Blank	8/18/2014	8/20/2014	<0.050
AB18767	Raccoon Lake SRA	8/18/2014	8/20/2014	<0.050
AB18768	Fairfax SRA	8/18/2014	8/20/2014	<0.050
AB18769	Paynetown SRA	8/18/2014	8/20/2014	<0.050
AB18775	Monroe Lake Intake	8/18/2014	8/20/2014	<0.050
AB18767LD	Raccoon Lake SRA (Lab Duplicate)	8/18/2014	8/20/2014	<0.050
20140818LB	Lab Blank	8/18/2014	8/20/2014	<0.050
AB18770	Hardy Lake SRA	8/19/2014	8/20/2014	<0.050
AB18771	Mounds SRA	8/19/2014	8/20/2014	<0.050
AB18772	Quakertown SRA	8/19/2014	8/20/2014	<0.050
AB18773	Whitewater Memorial SP	8/19/2014	8/20/2014	<0.050
AB18765	Quakertown SRA (Field Duplicate)	8/19/2014	8/20/2014	<0.050

Assay Calibration Report

Assay Information

Assay Name: Cylindrospermopsin 1X
Assay Mode: 4-Parameter Logistic
Normal: 0.050 - 2.000

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

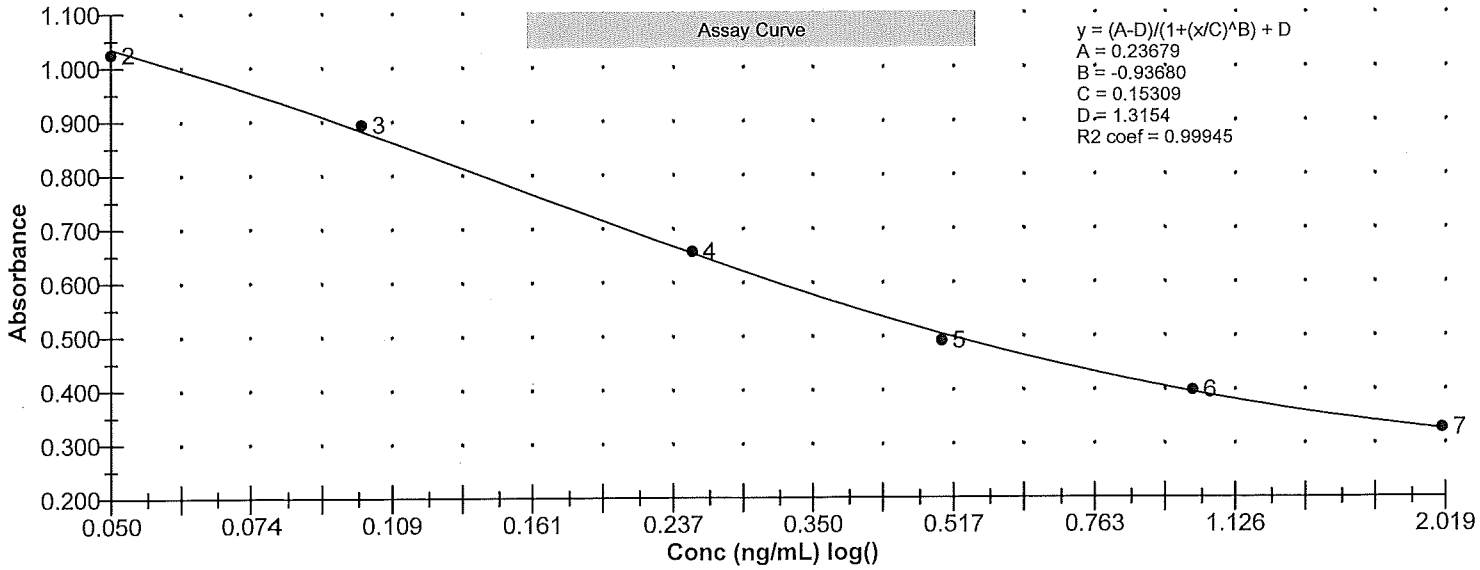
Controls:
Normal Control
Standards:
Std1, Concentration = 0.000, Minimum number to use: 3
Std2, Concentration = 0.050, Minimum number to use: 3
Std3, Concentration = 0.100, Minimum number to use: 3
Std4, Concentration = 0.250, Minimum number to use: 3
Std5, Concentration = 0.500, Minimum number to use: 3
Std6, Concentration = 1.000, Minimum number to use: 3
Std7, Concentration = 2.000, Minimum number to use: 3
Curve valid interval: 7 days 0 hours
Axis Mode: Y = Abs, X = Log(Conc)

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
8/20/2014 3:01:01 PM			
Std1	1.324 Abs	< 0.000 ng/mL	A01
Std1	1.345 Abs	< 0.000 ng/mL	B01
Std1	1.281 Abs	0.000 ng/mL	C01
Std2	1.055 Abs	0.045 ng/mL	D01
Std2	1.021 Abs	0.054 ng/mL	E01
Std2	0.999 Abs	0.060 ng/mL	F01
Std3	0.871 Abs	0.105 ng/mL	G01
Std3	0.917 Abs	0.086 ng/mL	H01
Std4	0.651 Abs	0.254 ng/mL	B02
Std4	0.660 Abs	0.244 ng/mL	C02
Std4	0.664 Abs	0.240 ng/mL	D02
Std5	0.475 Abs	0.588 ng/mL	E02
Std5	0.501 Abs	0.509 ng/mL	F02
Std5	0.500 Abs	0.512 ng/mL	G02
Std6	0.418 Abs	0.844 ng/mL	H02
Std6	0.393 Abs	1.020 ng/mL	A03
Std6	0.386 Abs	1.078 ng/mL	B03
Std7	0.330 Abs	1.896 ng/mL	C03
Std7	0.332 Abs	1.850 ng/mL	D03
Std7	0.323 Abs	> 2.000 ng/mL	E03
8/13/2014 4:00:42 PM			
Normal Control	0.436 Abs	0.747 ng/mL	F03
Normal Control	0.432 Abs	0.767 ng/mL	G03
Normal Control	0.448 Abs	0.692 ng/mL	H03

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.317	0.033	2.48				
Std2	1.025	0.028	2.75	0.053	0.008	14.24	6.00
Std3	0.894	0.033	3.64	0.095	0.013	14.07	-5.00

Assay Curve



Assay Calibration Report

Assay Information

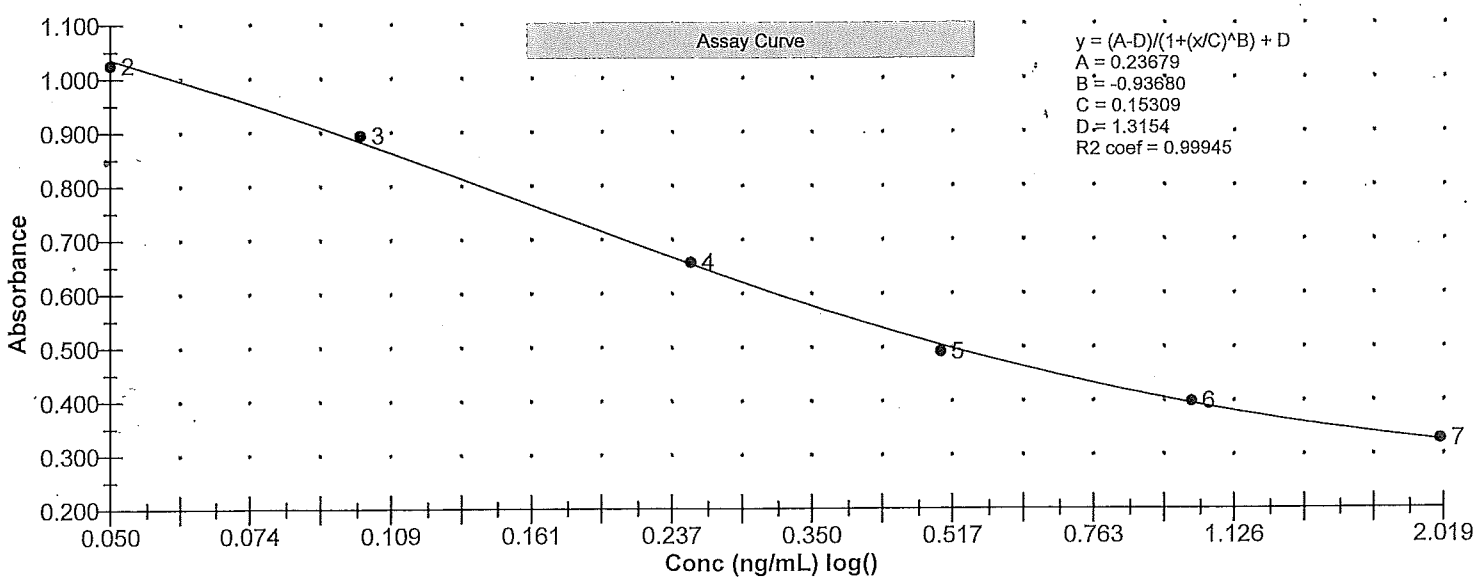
Assay Name: Cylindrospermopsin 1X
Assay Mode: 4-Parameter Logistic
Normal: 0.050 - 2.000

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

Controls:
Normal Control
Standards:
Std1, Concentration = 0.000, Minimum number to use: 3
Std2, Concentration = 0.050, Minimum number to use: 3
Std3, Concentration = 0.100, Minimum number to use: 3
Std4, Concentration = 0.250, Minimum number to use: 3
Std5, Concentration = 0.500, Minimum number to use: 3
Std6, Concentration = 1.000, Minimum number to use: 3
Std7, Concentration = 2.000, Minimum number to use: 3
Curve valid interval: 7 days 0 hours
Axis Mode: Y = Abs, X = Log(Conc)

Assay Calibration and Statistics

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std4	0.658	0.007	1.01	0.246	0.007	2.93	-1.60
Std5	0.492	0.015	2.99	0.536	0.045	8.35	7.20
Std6	0.399	0.017	4.22	0.981	0.122	12.43	-1.90
Std7	0.328	0.005	1.44				-100.00
Normal Control	0.439	0.008	1.90	0.735	0.039	5.28	



Test Report

Test Information

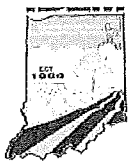
Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			8/20/2014 3:01:01 PM			
Std1	Cylindrospermopsin 1X	1.324 Abs	< 0.000 ng/mL		0.000	A01
Std1	Cylindrospermopsin 1X	1.345 Abs	< 0.000 ng/mL		0.000	B01
Std1	Cylindrospermopsin 1X	1.281 Abs	0.000 ng/mL		0.000	C01
Std2	Cylindrospermopsin 1X	1.055 Abs	0.047 ng/mL		0.050	D01
Std2	Cylindrospermopsin 1X	1.021 Abs	0.056 ng/mL		0.050	E01
Std2	Cylindrospermopsin 1X	0.999 Abs	0.062 ng/mL		0.050	F01
Std3	Cylindrospermopsin 1X	0.871 Abs	0.108 ng/mL		0.100	G01
Std3	Cylindrospermopsin 1X	0.917 Abs	0.089 ng/mL		0.100	H01
Std4	Cylindrospermopsin 1X	0.651 Abs	0.258 ng/mL		0.250	B02
Std4	Cylindrospermopsin 1X	0.660 Abs	0.249 ng/mL		0.250	C02
Std4	Cylindrospermopsin 1X	0.664 Abs	0.245 ng/mL		0.250	D02
Std5	Cylindrospermopsin 1X	0.475 Abs	0.591 ng/mL		0.500	E02
Std5	Cylindrospermopsin 1X	0.501 Abs	0.513 ng/mL		0.500	F02
Std5	Cylindrospermopsin 1X	0.500 Abs	0.515 ng/mL		0.500	G02
Std6	Cylindrospermopsin 1X	0.418 Abs	0.844 ng/mL		1.000	H02
Std6	Cylindrospermopsin 1X	0.393 Abs	1.016 ng/mL		1.000	A03
Std6	Cylindrospermopsin 1X	0.386 Abs	1.074 ng/mL		1.000	B03
Std7	Cylindrospermopsin 1X	0.330 Abs	1.872 ng/mL		2.000	C03
Std7	Cylindrospermopsin 1X	0.332 Abs	1.828 ng/mL		2.000	D03
Std7	Cylindrospermopsin 1X	0.323 Abs	> 2.000 ng/mL		2.000	E03
Normal Control	Cylindrospermopsin 1X	0.448 Abs	0.692 ng/mL			F03
Normal Control	Cylindrospermopsin 1X	0.446 Abs	0.700 ng/mL			G03
Normal Control	Cylindrospermopsin 1X	0.459 Abs	0.646 ng/mL			H03
AB18766	Cylindrospermopsin 1X	1.262 Abs	0.000 ng/mL	LOW	0.050 - 2.000	A04
AB18766	Cylindrospermopsin 1X	1.293 Abs	0.000 ng/mL	LOW	0.050 - 2.000	B04
AB18766	Cylindrospermopsin 1X	1.296 Abs	0.000 ng/mL	LOW	0.050 - 2.000	C04
AB18767	Cylindrospermopsin 1X	1.256 Abs	0.000 ng/mL	LOW	0.050 - 2.000	D04
AB18767	Cylindrospermopsin 1X	1.277 Abs	0.000 ng/mL	LOW	0.050 - 2.000	E04
AB18767	Cylindrospermopsin 1X	1.324 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	F04
AB18768	Cylindrospermopsin 1X	1.298 Abs	0.000 ng/mL	LOW	0.050 - 2.000	G04
AB18768	Cylindrospermopsin 1X	1.293 Abs	0.000 ng/mL	LOW	0.050 - 2.000	H04
AB18768	Cylindrospermopsin 1X	1.278 Abs	0.000 ng/mL	LOW	0.050 - 2.000	A05
AB18769	Cylindrospermopsin 1X	1.257 Abs	0.000 ng/mL	LOW	0.050 - 2.000	B05
AB18769	Cylindrospermopsin 1X	1.305 Abs	0.000 ng/mL	LOW	0.050 - 2.000	C05
AB18769	Cylindrospermopsin 1X	1.256 Abs	0.000 ng/mL	LOW	0.050 - 2.000	D05
AB18775	Cylindrospermopsin 1X	1.281 Abs	0.000 ng/mL	LOW	0.050 - 2.000	E05
AB18775	Cylindrospermopsin 1X	1.272 Abs	0.000 ng/mL	LOW	0.050 - 2.000	F05
AB18775	Cylindrospermopsin 1X	1.264 Abs	0.000 ng/mL	LOW	0.050 - 2.000	G05
AB18767LD	Cylindrospermopsin 1X	1.266 Abs	0.000 ng/mL	LOW	0.050 - 2.000	H05
AB18767LD	Cylindrospermopsin 1X	1.237 Abs	0.000 ng/mL	LOW	0.050 - 2.000	A06
AB18767LD	Cylindrospermopsin 1X	1.264 Abs	0.000 ng/mL	LOW	0.050 - 2.000	B06
20140818LB	Cylindrospermopsin 1X	1.301 Abs	0.000 ng/mL	LOW	0.050 - 2.000	C06
20140818LB	Cylindrospermopsin 1X	1.257 Abs	0.000 ng/mL	LOW	0.050 - 2.000	D06
20140818LB	Cylindrospermopsin 1X	1.278 Abs	0.000 ng/mL	LOW	0.050 - 2.000	E06
AB18770	Cylindrospermopsin 1X	1.266 Abs	0.000 ng/mL	LOW	0.050 - 2.000	F06
AB18770	Cylindrospermopsin 1X	1.239 Abs	0.000 ng/mL	LOW	0.050 - 2.000	G06
AB18770	Cylindrospermopsin 1X	1.265 Abs	0.000 ng/mL	LOW	0.050 - 2.000	H06
AB18771	Cylindrospermopsin 1X	1.234 Abs	0.000 ng/mL	LOW	0.050 - 2.000	A07

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

8/21/14

Date



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
AB18771	Cylindrospermopsin 1X	1.263 Abs	0.000 ng/mL	LOW	0.050 - 2.000	B07
AB18771	Cylindrospermopsin 1X	1.272 Abs	0.000 ng/mL	LOW	0.050 - 2.000	C07
AB18772	Cylindrospermopsin 1X	1.284 Abs	0.000 ng/mL	LOW	0.050 - 2.000	D07
AB18772	Cylindrospermopsin 1X	1.291 Abs	0.000 ng/mL	LOW	0.050 - 2.000	E07
AB18772	Cylindrospermopsin 1X	1.246 Abs	0.000 ng/mL	LOW	0.050 - 2.000	F07
AB18773	Cylindrospermopsin 1X	1.226 Abs	0.000 ng/mL	LOW	0.050 - 2.000	G07
AB18773	Cylindrospermopsin 1X	1.287 Abs	0.000 ng/mL	LOW	0.050 - 2.000	H07
AB18773	Cylindrospermopsin 1X	1.188 Abs	0.000 ng/mL	LOW	0.050 - 2.000	A08
AB18765	Cylindrospermopsin 1X	1.216 Abs	0.000 ng/mL	LOW	0.050 - 2.000	B08
AB18765	Cylindrospermopsin 1X	1.190 Abs	0.000 ng/mL	LOW	0.050 - 2.000	C08
AB18765	Cylindrospermopsin 1X	1.262 Abs	0.000 ng/mL	LOW	0.050 - 2.000	D08

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Laboratory Analyst Signature

8/21/14

Date