



Cylindrospermopsin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB18532	Mississinewa Miami SRA	8/11/2014	8/13/2014	<0.050
AB18533	Potato Creek SP	8/11/2014	8/13/2014	<0.050
AB18537	Ferdinand SP	8/11/2014	8/13/2014	<0.050
AB18538	Lincoln SP	8/11/2014	8/13/2014	1.174
AB18540	Field Blank	8/11/2014	8/13/2014	<0.050
AB18532LD	Mississinewa Miami (Lab Duplicate)	8/11/2014	8/13/2014	<0.050
20149811LB	Lab Blank	8/11/2014	8/13/2014	<0.050
AB18534	Pokagon SP	8/12/2014	8/13/2014	<0.050
AB18535	Sand Lake Chain O'Lakes SP	8/12/2014	8/13/2014	<0.050
AB18536	Salamonie Lost Bridge West SRA	8/12/2014	8/13/2014	<0.050
AB18539	Pokagon SP (Field Duplicate)	8/12/2014	8/13/2014	<0.050



Assay Calibration Report

Assay Information

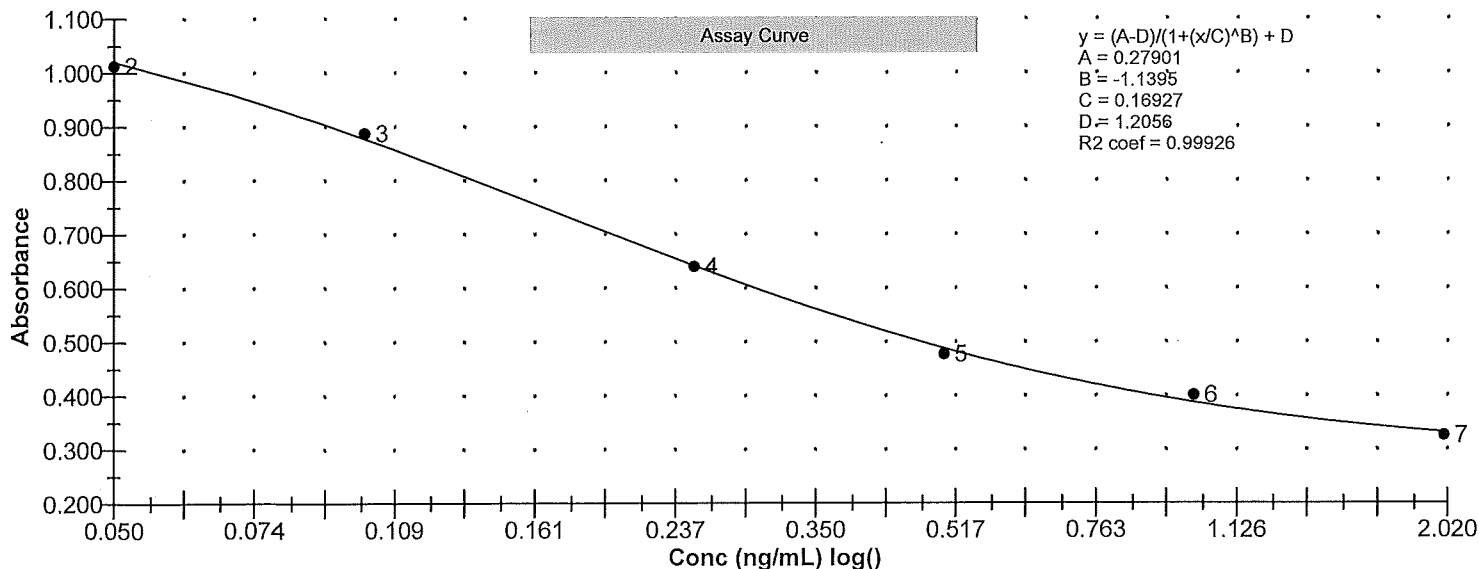
Assay Name: Cylindrospermopsin 1X
 Assay Mode: 4-Parameter Logistic
 Normal: 0.050 - 2.000
 Units: ng/mL
 # of decimals: 3
 Assay Description:

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
8/13/2014 4:00:42 PM			
Std1	1.142 Abs	0.000 ng/mL	A01
Std1	1.201 Abs	0.000 ng/mL	B01
Std1	1.278 Abs	< 0.000 ng/mL	C01
Std2	1.024 Abs	0.049 ng/mL	D01
Std2	1.002 Abs	0.056 ng/mL	E01
Std2	1.014 Abs	0.052 ng/mL	F01
Std3	0.875 Abs	0.101 ng/mL	G01
Std3	0.877 Abs	0.100 ng/mL	H01
Std3	0.908 Abs	0.088 ng/mL	A02
Std4	0.648 Abs	0.243 ng/mL	B02
Std4	0.642 Abs	0.249 ng/mL	C02
Std4	0.630 Abs	0.261 ng/mL	D02
Std5	0.463 Abs	0.576 ng/mL	E02
Std5	0.484 Abs	0.511 ng/mL	F02
Std5	0.483 Abs	0.514 ng/mL	G02
Std6	0.405 Abs	0.858 ng/mL	H02
Std6	0.401 Abs	0.886 ng/mL	A03
Std6	0.397 Abs	0.916 ng/mL	B03
Std7	0.321 Abs	> 2.000 ng/mL	C03
Std7	0.329 Abs	> 2.000 ng/mL	D03
Std7	0.329 Abs	> 2.000 ng/mL	E03
8/13/2014 4:00:42 PM			
Normal Control	0.448 Abs	0.632 ng/mL	H03
Normal Control	0.432 Abs	0.702 ng/mL	G03
Normal Control	0.436 Abs	0.683 ng/mL	F03

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.207	0.068	5.65				
Std2	1.013	0.011	1.09	0.052	0.004	6.71	4.00





Assay Calibration Report

Assay Information

Assay Name: Cylindrospermopsin 1X Units: ng/mL
Assay Mode: 4-Parameter Logistic # of decimals: 3
Normal: 0.050 - 2.000 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

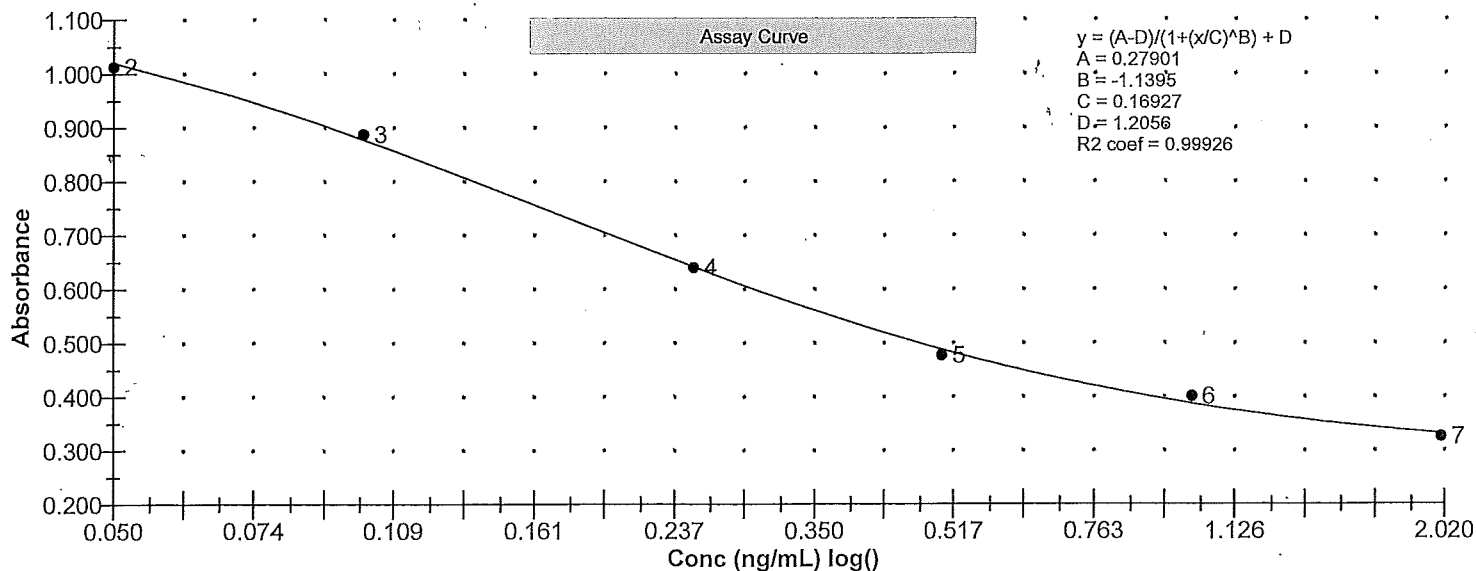
Std7, Concentration = 2.000, Minimum number to use: 3

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
Std3	0.887	0.019	2.09	0.096	0.007	7.51	-4.00
Std4	0.640	0.009	1.43	0.251	0.009	3.65	0.40
Std5	0.477	0.012	2.49	0.534	0.037	6.88	6.80
Std6	0.401	0.004	1.00	0.887	0.029	3.27	-11.30
Std7	0.326	0.005	1.42				-100.00
Normal Control	0.439	0.008	1.90	0.672	0.036	5.38	





Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
8/13/2014 4:00:42 PM						
Std1	Cyldrospermopsin 1X	1.142 Abs	0.000 ng/mL		0.000	A01
Std1	Cyldrospermopsin 1X	1.201 Abs	0.000 ng/mL		0.000	B01
Std1	Cyldrospermopsin 1X	1.278 Abs	< 0.000 ng/mL		0.000	C01
Std2	Cyldrospermopsin 1X	1.024 Abs	0.049 ng/mL		0.050	D01
Std2	Cyldrospermopsin 1X	1.002 Abs	0.056 ng/mL		0.050	E01
Std2	Cyldrospermopsin 1X	1.014 Abs	0.052 ng/mL		0.050	F01
Std3	Cyldrospermopsin 1X	0.875 Abs	0.101 ng/mL		0.100	G01
Std3	Cyldrospermopsin 1X	0.877 Abs	0.100 ng/mL		0.100	H01
Std3	Cyldrospermopsin 1X	0.908 Abs	0.088 ng/mL		0.100	A02
Std4	Cyldrospermopsin 1X	0.648 Abs	0.243 ng/mL		0.250	B02
Std4	Cyldrospermopsin 1X	0.642 Abs	0.249 ng/mL		0.250	C02
Std4	Cyldrospermopsin 1X	0.630 Abs	0.261 ng/mL		0.250	D02
Std5	Cyldrospermopsin 1X	0.463 Abs	0.576 ng/mL		0.500	E02
Std5	Cyldrospermopsin 1X	0.484 Abs	0.511 ng/mL		0.500	F02
Std5	Cyldrospermopsin 1X	0.483 Abs	0.514 ng/mL		0.500	G02
Std6	Cyldrospermopsin 1X	0.405 Abs	0.858 ng/mL		1.000	H02
Std6	Cyldrospermopsin 1X	0.401 Abs	0.886 ng/mL		1.000	A03
Std6	Cyldrospermopsin 1X	0.397 Abs	0.916 ng/mL		1.000	B03
Std7	Cyldrospermopsin 1X	0.321 Abs	> 2.000 ng/mL		2.000	C03
Std7	Cyldrospermopsin 1X	0.329 Abs	> 2.000 ng/mL		2.000	D03
Std7	Cyldrospermopsin 1X	0.329 Abs	> 2.000 ng/mL		2.000	E03
Normal Control	Cyldrospermopsin 1X	0.436 Abs	0.683 ng/mL			F03
Normal Control	Cyldrospermopsin 1X	0.432 Abs	0.702 ng/mL			G03
Normal Control	Cyldrospermopsin 1X	0.448 Abs	0.632 ng/mL			H03
AB18532	Cyldrospermopsin 1X	1.256 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	A04
AB18532	Cyldrospermopsin 1X	1.296 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	B04
AB18532	Cyldrospermopsin 1X	1.255 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	C04
AB18533	Cyldrospermopsin 1X	1.232 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	D04
AB18533	Cyldrospermopsin 1X	1.229 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	E04
AB18533	Cyldrospermopsin 1X	1.232 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	F04
AB18537	Cyldrospermopsin 1X	1.214 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	G04
AB18537	Cyldrospermopsin 1X	1.254 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	H04
AB18537	Cyldrospermopsin 1X	1.208 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	A05
AB18538	Cyldrospermopsin 1X	0.384 Abs	1.030 ng/mL		0.050 - 2.000	B05
AB18538	Cyldrospermopsin 1X	0.362 Abs	1.294 ng/mL		0.050 - 2.000	C05
AB18538	Cyldrospermopsin 1X	0.369 Abs	1.198 ng/mL		0.050 - 2.000	D05
AB18540	Cyldrospermopsin 1X	1.294 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	E05
AB18540	Cyldrospermopsin 1X	1.288 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	F05
AB18540	Cyldrospermopsin 1X	1.290 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	G05
AB18532LD	Cyldrospermopsin 1X	1.310 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	H05
AB18532LD	Cyldrospermopsin 1X	1.241 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	A06
AB18532LD	Cyldrospermopsin 1X	1.301 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	B06
20140811LB	Cyldrospermopsin 1X	1.296 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	C06
20140811LB	Cyldrospermopsin 1X	1.322 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	D06
20140811LB	Cyldrospermopsin 1X	1.284 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	E06
AB18534	Cyldrospermopsin 1X	1.286 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	F06
AB18534	Cyldrospermopsin 1X	1.293 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	G06
AB18534	Cyldrospermopsin 1X	1.324 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	H06

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

Beth Ratchford

Laboratory Analyst Signature

8/14/14

Date



Test Report

Test Information						
Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
AB18535	Cylindrospermopsin 1X	1.236 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	A07
AB18535	Cylindrospermopsin 1X	1.217 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	B07
AB18535	Cylindrospermopsin 1X	1.250 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	C07
AB18536	Cylindrospermopsin 1X	1.258 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	D07
AB18536	Cylindrospermopsin 1X	1.306 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	E07
AB18536	Cylindrospermopsin 1X	1.271 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	F07
AB18539	Cylindrospermopsin 1X	1.257 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	G07
AB18539	Cylindrospermopsin 1X	1.261 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	H07
AB18539	Cylindrospermopsin 1X	1.249 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	A08

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

Date