Cylindrospermopsin ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB22622	Fairfax SRA	8/3/2015	8/5/2015	< 0.050
AB22623	Paynetown SRA	8/3/2015	8/5/2015	< 0.050
AB22624	Starve Hollow SRA	8/3/2015	8/5/2015	< 0.050
AB22625	Deam Lake SRA	8/3/2015	8/5/2015	< 0.050
AB22626	Hardy Lake SRA	8/3/2015	8/5/2015	< 0.050
AB22627	Raccoon Lake SRA	8/4/2015	8/5/2015	< 0.050
AB22628	Whitewater Memorial SP	8/4/2015	8/5/2015	< 0.050
AB22629	Quakertown SRA	8/4/2015	8/5/2015	< 0.050
AB22630	Mounds SRA	8/4/2015	8/5/2015	< 0.050
AB22631	Hardy Lake (Field Duplicate)	8/3/2015	8/5/2015	< 0.050
AB22632	Field Blank	8/3/2015	8/5/2015	< 0.050
AB22624LD	Starve Hollow (Lab Duplicate)	8/3/2015	8/5/2015	< 0.050
20150805LB	Lab Blank	8/4/2015	8/5/2015	< 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:

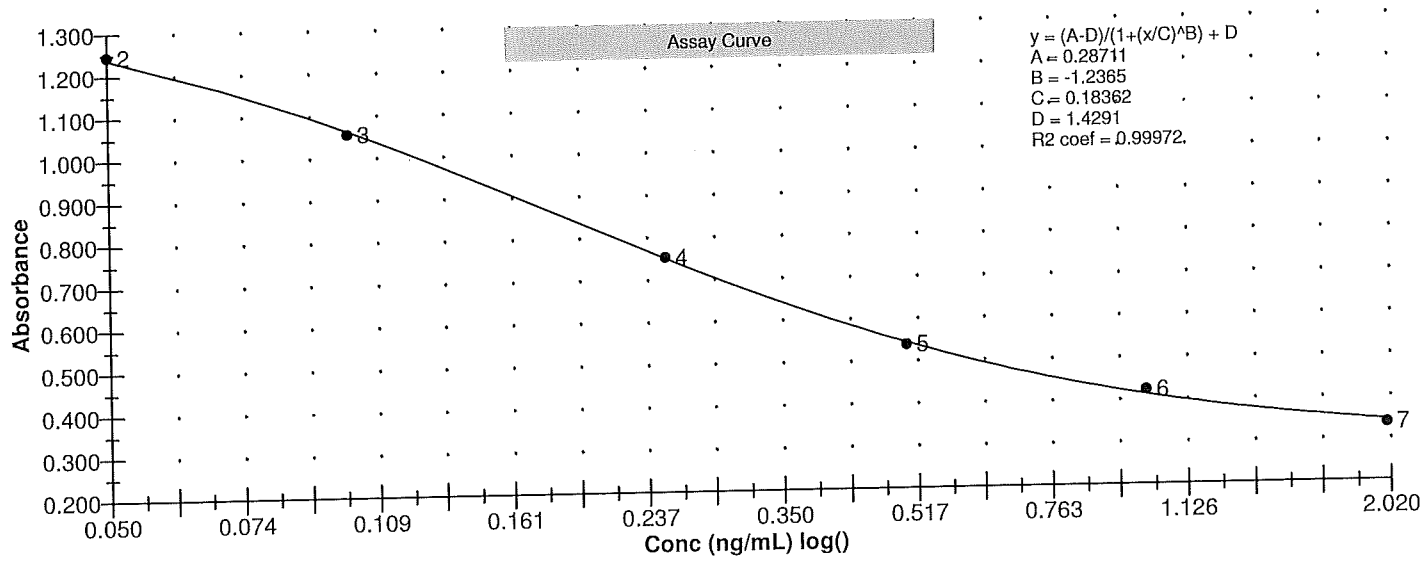
Controls:
Normal Control
Standards:
Std1, Concentration = 0.000, Minimum number to use: 3
Std2, Concentration = 0.050, Minimum number to use: 3
Std3, Concentration = 0.100, Minimum number to use: 3
Std4, Concentration = 0.250, Minimum number to use: 3
Std5, Concentration = 0.500, Minimum number to use: 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
8/5/2015 12:59:07 PM			
Std1	1.481 Abs	< 0.000 ng/mL	A01
Std1	1.391 Abs	0.000 ng/mL	B01
Std1	1.409 Abs	0.000 ng/mL	C01
Std2	1.258 Abs	0.045 ng/mL	D01
Std2	1.235 Abs	0.051 ng/mL	E01
Std2	1.245 Abs	0.048 ng/mL	F01
Std3	1.040 Abs	0.108 ng/mL	G01
Std3	1.071 Abs	0.097 ng/mL	H01
Std3	1.057 Abs	0.102 ng/mL	A02
Std4	0.745 Abs	0.254 ng/mL	B02
Std4	0.759 Abs	0.244 ng/mL	C02
Std4	0.754 Abs	0.247 ng/mL	D02
Std5	0.536 Abs	0.516 ng/mL	E02
Std5	0.534 Abs	0.521 ng/mL	F02
Std5	0.548 Abs	0.491 ng/mL	G02
Std6	0.432 Abs	0.874 ng/mL	H02
Std6	0.412 Abs	1.002 ng/mL	A03
Std6	0.424 Abs	0.921 ng/mL	B03
Std7	0.347 Abs	1.906 ng/mL	C03
Std7	0.332 Abs	> 2.000 ng/mL	D03
Std7	0.331 Abs	> 2.000 ng/mL	E03
8/5/2015 12:59:07 PM			
Normal Control	0.496 Abs	0.616 ng/mL	H03
Normal Control	0.462 Abs	0.732 ng/mL	G03
Normal Control	0.456 Abs	0.757 ng/mL	F03

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.427	0.048	3.34				
Std2	1.246	0.012	0.93	0.048	0.003	6.25	-4.00

Assay Curve



Assay Calibration Report

Assay Information

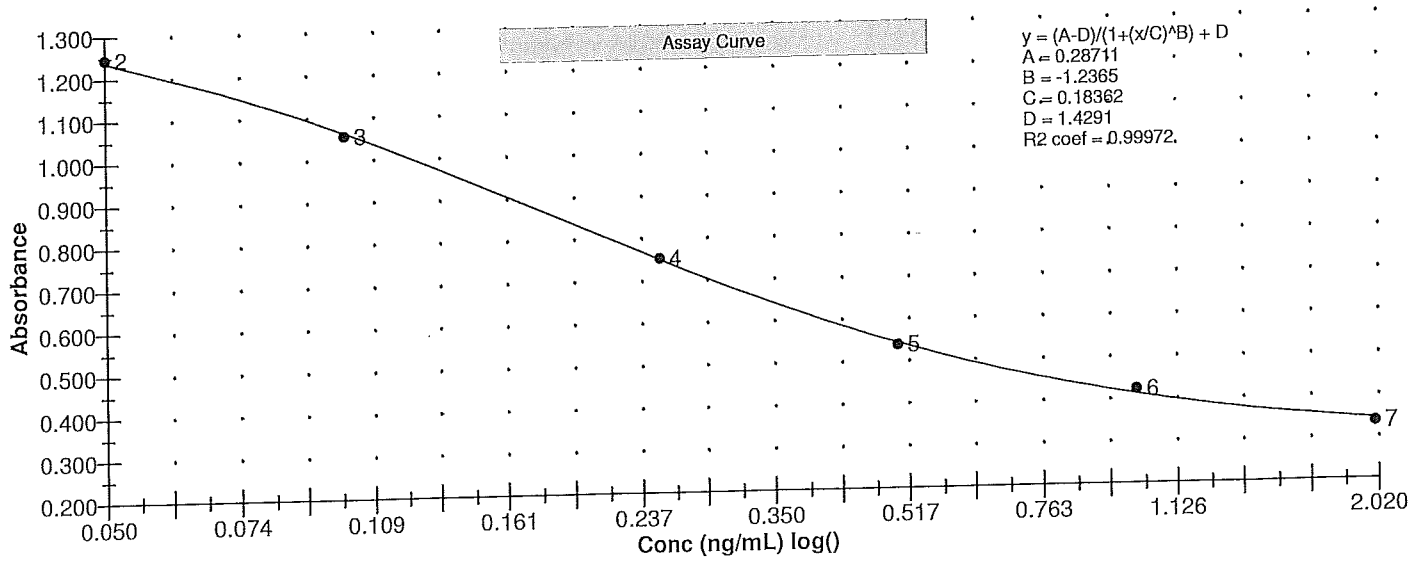
Assay Name: Cylindrospermopsin 1X
Assay Mode: 4-Parameter Logistic
Normal: 0.050 - 2.000

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
Std3	1.056	0.016	1.47	0.102	0.006	5.38	2.00
Std4	0.753	0.007	0.94	0.248	0.005	2.07	-0.80
Std5	0.539	0.008	1.40	0.509	0.016	3.16	1.80
Std6	0.423	0.010	2.38	0.932	0.065	6.94	-6.80
Std7	0.337	0.009	2.66				-100.00
Normal Control	0.471	0.022	4.58	0.702	0.075	10.72	



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			8/5/2015 12:59:07 PM			
Std1	Cylindrospermopsin 1X	1.481 Abs	< 0.000 ng/mL		0.000	A01
Std1	Cylindrospermopsin 1X	1.391 Abs	0.000 ng/mL		0.000	B01
Std1	Cylindrospermopsin 1X	1.409 Abs	0.000 ng/mL		0.000	C01
Std2	Cylindrospermopsin 1X	1.258 Abs	0.045 ng/mL		0.050	D01
Std2	Cylindrospermopsin 1X	1.235 Abs	0.051 ng/mL		0.050	E01
Std2	Cylindrospermopsin 1X	1.245 Abs	0.048 ng/mL		0.050	F01
Std3	Cylindrospermopsin 1X	1.040 Abs	0.108 ng/mL		0.100	G01
Std3	Cylindrospermopsin 1X	1.071 Abs	0.097 ng/mL		0.100	H01
Std3	Cylindrospermopsin 1X	1.057 Abs	0.102 ng/mL		0.100	A02
Std4	Cylindrospermopsin 1X	0.745 Abs	0.254 ng/mL		0.250	B02
Std4	Cylindrospermopsin 1X	0.759 Abs	0.244 ng/mL		0.250	C02
Std4	Cylindrospermopsin 1X	0.754 Abs	0.247 ng/mL		0.250	D02
Std5	Cylindrospermopsin 1X	0.536 Abs	0.516 ng/mL		0.500	E02
Std5	Cylindrospermopsin 1X	0.534 Abs	0.521 ng/mL		0.500	F02
Std5	Cylindrospermopsin 1X	0.548 Abs	0.491 ng/mL		0.500	G02
Std6	Cylindrospermopsin 1X	0.432 Abs	0.874 ng/mL		1.000	H02
Std6	Cylindrospermopsin 1X	0.412 Abs	1.002 ng/mL		1.000	A03
Std6	Cylindrospermopsin 1X	0.424 Abs	0.921 ng/mL		1.000	B03
Std7	Cylindrospermopsin 1X	0.347 Abs	1.906 ng/mL		2.000	C03
Std7	Cylindrospermopsin 1X	0.332 Abs	> 2.000 ng/mL		2.000	D03
Std7	Cylindrospermopsin 1X	0.331 Abs	> 2.000 ng/mL		2.000	E03
Normal Control	Cylindrospermopsin 1X	0.456 Abs	0.757 ng/mL			F03
Normal Control	Cylindrospermopsin 1X	0.462 Abs	0.732 ng/mL			G03
Normal Control	Cylindrospermopsin 1X	0.496 Abs	0.616 ng/mL			H03
AB22622	Cylindrospermopsin 1X	1.438 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	A04
AB22622	Cylindrospermopsin 1X	1.398 Abs	0.000 ng/mL	LOW	0.050 - 2.000	B04
AB22622	Cylindrospermopsin 1X	1.462 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	C04
AB22623	Cylindrospermopsin 1X	1.503 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	D04
AB22623	Cylindrospermopsin 1X	1.437 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	E04
AB22623	Cylindrospermopsin 1X	1.455 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	F04
AB22624	Cylindrospermopsin 1X	1.486 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	G04
AB22624	Cylindrospermopsin 1X	1.458 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	H04
AB22624	Cylindrospermopsin 1X	1.426 Abs	0.000 ng/mL	LOW	0.050 - 2.000	A05
AB22625	Cylindrospermopsin 1X	1.330 Abs	0.027 ng/mL	LOW	0.050 - 2.000	B05
AB22625	Cylindrospermopsin 1X	1.394 Abs	0.000 ng/mL	LOW	0.050 - 2.000	C05
AB22625	Cylindrospermopsin 1X	1.420 Abs	0.000 ng/mL	LOW	0.050 - 2.000	D05
AB22626	Cylindrospermopsin 1X	1.387 Abs	0.000 ng/mL	LOW	0.050 - 2.000	E05
AB22626	Cylindrospermopsin 1X	1.409 Abs	0.000 ng/mL	LOW	0.050 - 2.000	F05
AB22626	Cylindrospermopsin 1X	1.438 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	G05
AB22627	Cylindrospermopsin 1X	1.451 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	H05
AB22627	Cylindrospermopsin 1X	1.359 Abs	0.020 ng/mL	LOW	0.050 - 2.000	A06
AB22627	Cylindrospermopsin 1X	1.407 Abs	0.000 ng/mL	LOW	0.050 - 2.000	B06
AB22628	Cylindrospermopsin 1X	1.390 Abs	0.000 ng/mL	LOW	0.050 - 2.000	C06
AB22628	Cylindrospermopsin 1X	1.410 Abs	0.000 ng/mL	LOW	0.050 - 2.000	D06
AB22628	Cylindrospermopsin 1X	1.426 Abs	0.000 ng/mL	LOW	0.050 - 2.000	E06
AB22629	Cylindrospermopsin 1X	1.367 Abs	0.000 ng/mL	LOW	0.050 - 2.000	F06
AB22629	Cylindrospermopsin 1X	1.396 Abs	0.000 ng/mL	LOW	0.050 - 2.000	G06
AB22629	Cylindrospermopsin 1X	1.399 Abs	0.000 ng/mL	LOW	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.

Laboratory Analyst Signature

8/5/15
Date

IDEM

Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
AB22630	Cylindrospermopsin 1X	1.404 Abs	0.000 ng/mL	LOW	0.050 - 2.000	A07
AB22630	Cylindrospermopsin 1X	1.426 Abs	0.000 ng/mL	LOW	0.050 - 2.000	B07
AB22630	Cylindrospermopsin 1X	1.435 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	C07
AB22631	Cylindrospermopsin 1X	1.490 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	D07
AB22631	Cylindrospermopsin 1X	1.396 Abs	0.000 ng/mL	LOW	0.050 - 2.000	E07
AB22631	Cylindrospermopsin 1X	1.414 Abs	0.000 ng/mL	LOW	0.050 - 2.000	F07
AB22632	Cylindrospermopsin 1X	1.381 Abs	0.000 ng/mL	LOW	0.050 - 2.000	G07
AB22632	Cylindrospermopsin 1X	1.410 Abs	0.000 ng/mL	LOW	0.050 - 2.000	H07
AB22632	Cylindrospermopsin 1X	1.402 Abs	0.000 ng/mL	LOW	0.050 - 2.000	A08
AB22624LD	Cylindrospermopsin 1X	1.491 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	B08
AB22624LD	Cylindrospermopsin 1X	1.472 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	C08
AB22624LD	Cylindrospermopsin 1X	1.452 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	D08
20150805LB	Cylindrospermopsin 1X	1.386 Abs	0.000 ng/mL	LOW	0.050 - 2.000	E08
20150805LB	Cylindrospermopsin 1X	1.349 Abs	0.023 ng/mL	LOW	0.050 - 2.000	F08
20150805LB	Cylindrospermopsin 1X	1.415 Abs	0.000 ng/mL	LOW	0.050 - 2.000	G08

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

8/3/15

Date