IDEM

Assay Calibration Report

Assay Information

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

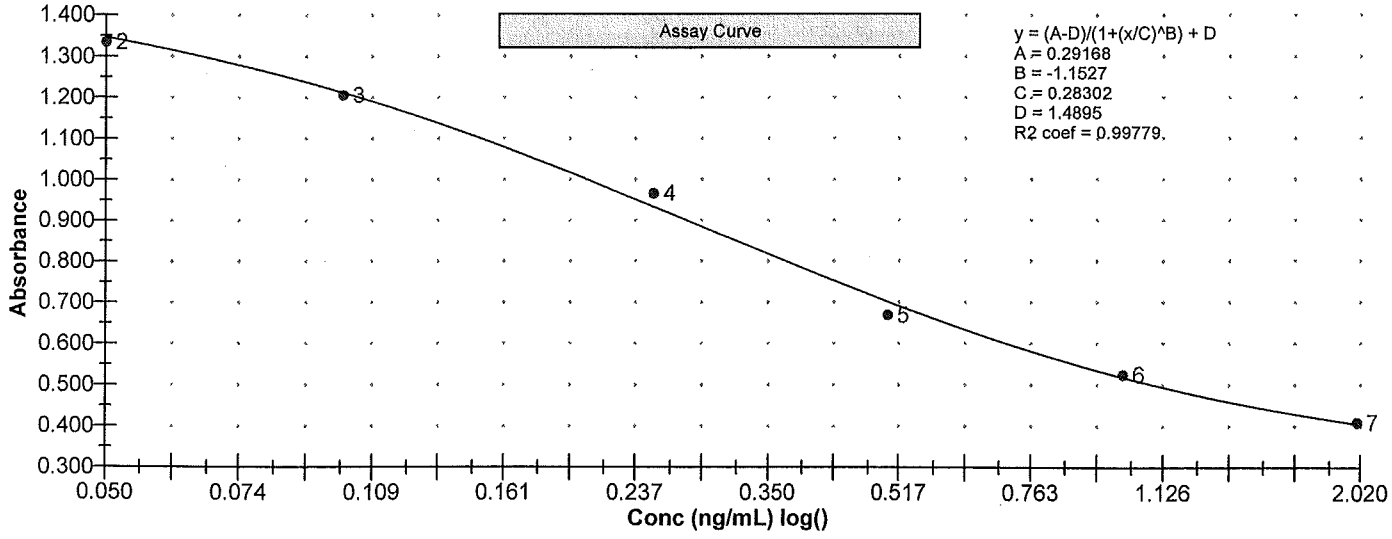
Units: ng/mL
# of decimals: 3
Assay Description:

Controls:
Normal Control
Standards:
Std1, Concentration = 0.000, Minimum number to use: 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
Axis Mode: Y = Abs, X = Log(Conc)

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
8/22/2012 3:19:05 PM			
Std1	1.482 Abs	0.004 ng/mL	A01
Std1	1.510 Abs	< 0.000 ng/mL	B01
Std2	1.348 Abs	0.049 ng/mL	C01
Std2	1.321 Abs	0.059 ng/mL	D01
Std3	1.194 Abs	0.107 ng/mL	E01
Std3	1.218 Abs	0.098 ng/mL	F01
Std4	0.940 Abs	0.245 ng/mL	G01
Std4	0.992 Abs	0.210 ng/mL	H01
Std5	0.660 Abs	0.572 ng/mL	A02
Std5	0.677 Abs	0.541 ng/mL	B02
Std6	0.516 Abs	1.011 ng/mL	C02
Std6	0.535 Abs	0.926 ng/mL	D02
Std7	0.389 Abs	> 2.000 ng/mL	E02
Std7	0.429 Abs	1.668 ng/mL	F02
8/22/2012 3:19:05 PM			
Normal Control	0.617 Abs	0.666 ng/mL	G02
Normal Control	0.619 Abs	0.661 ng/mL	H02

Name	Bx	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	0	1.496	0.020	1.32				
Std2	1	1.335	0.019	1.43	0.054	0.007	13.09	8.00
Std3	2	1.206	0.017	1.41	0.102	0.006	6.21	2.00
Std4	3	0.966	0.037	3.81	0.227	0.025	10.88	-9.20
Std5	4	0.669	0.012	1.80	0.557	0.022	3.94	11.40
Std6	5	0.525	0.013	2.56	0.969	0.060	6.21	-3.10
Std7	6	0.409	0.028	6.92				-100.00



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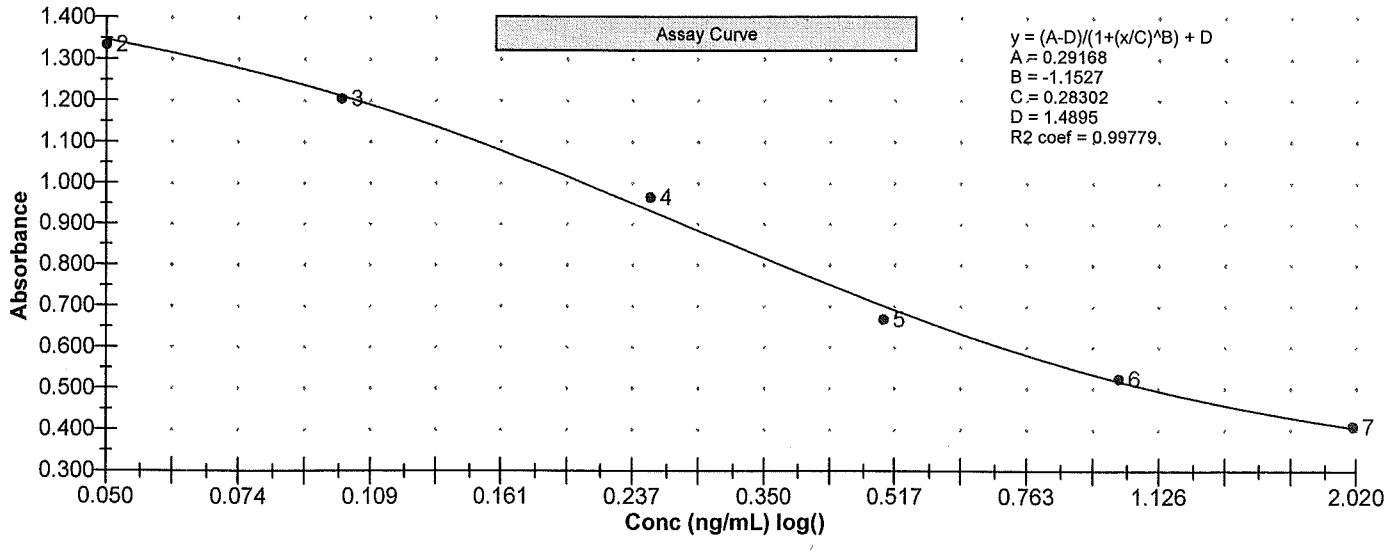
Std4, Concentration = 0.250, Minimum number to use: 2
Std5, Concentration = 0.500, Minimum number to use: 2
Std6, Concentration = 1.000, Minimum number to use: 2
Std7, Concentration = 2.000, Minimum number to use: 2
Curve valid interval: 7 days 0 hours
Axis Mode: Y = Abs, X = Log(Conc)

Assay Calibration and Statistics

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Normal Control	0.618	0.001	0.23	0.664	0.004	0.53	



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			8/22/2012 3:19:05 PM			
Std1	Cylindrospermopsin 1X	1.482 Abs	0.004 ng/mL			A01
Std1	Cylindrospermopsin 1X	1.510 Abs	< 0.000 ng/mL			B01
Std2	Cylindrospermopsin 1X	1.348 Abs	0.049 ng/mL			C01
Std2	Cylindrospermopsin 1X	1.321 Abs	0.059 ng/mL			D01
Std3	Cylindrospermopsin 1X	1.194 Abs	0.107 ng/mL			E01
Std3	Cylindrospermopsin 1X	1.218 Abs	0.098 ng/mL			F01
Std4	Cylindrospermopsin 1X	0.940 Abs	0.245 ng/mL			G01
Std4	Cylindrospermopsin 1X	0.992 Abs	0.210 ng/mL			H01
Std5	Cylindrospermopsin 1X	0.660 Abs	0.572 ng/mL			A02
Std5	Cylindrospermopsin 1X	0.677 Abs	0.541 ng/mL			B02
Std6	Cylindrospermopsin 1X	0.516 Abs	1.011 ng/mL			C02
Std6	Cylindrospermopsin 1X	0.535 Abs	0.926 ng/mL			D02
Std7	Cylindrospermopsin 1X	0.389 Abs	> 2.000 ng/mL			E02
Std7	Cylindrospermopsin 1X	0.429 Abs	1.668 ng/mL			F02
Normal Control	Cylindrospermopsin 1X	0.617 Abs	0.666 ng/mL			G02
Normal Control	Cylindrospermopsin 1X	0.619 Abs	0.661 ng/mL			H02
AB09103	Cylindrospermopsin 1X	1.637 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	A03
AB09103	Cylindrospermopsin 1X	1.601 Abs [1.6190]	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	B03
AB09104	Cylindrospermopsin 1X	1.599 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	C03
AB09104	Cylindrospermopsin 1X	1.661 Abs [1.6300]	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	D03
AB09105	Cylindrospermopsin 1X	1.514 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	E03
AB09105	Cylindrospermopsin 1X	1.506 Abs [1.5100]	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	F03
AB09109	Cylindrospermopsin 1X	1.558 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	G03
AB09109	Cylindrospermopsin 1X	1.635 Abs [1.5965]	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	H03
AB09843	Cylindrospermopsin 1X	1.571 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	A04
AB09843	Cylindrospermopsin 1X	1.592 Abs [1.5815]	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	B04
Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			8/22/2012 3:19:06 PM			
AB09843LD	Cylindrospermopsin 1X	1.493 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	C04
AB09843LD	Cylindrospermopsin 1X	1.577 Abs [1.5350]	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	D04
AB09106	Cylindrospermopsin 1X	1.423 Abs	0.024 ng/mL	**LOW**	0.050 - 2.000	E04
AB09106	Cylindrospermopsin 1X	1.485 Abs [1.4540]	0.002 ng/mL [0.014]	Low [Low]	0.050 - 2.000	F04
AB09107	Cylindrospermopsin 1X	1.449 Abs	0.015 ng/mL	**LOW**	0.050 - 2.000	G04
AB09107	Cylindrospermopsin 1X	1.522 Abs [1.4855]	< 0.000 ng/mL [0.002]	Out(LR) [Low]	0.050 - 2.000	H04
AB09108	Cylindrospermopsin 1X	1.470 Abs	0.008 ng/mL	**LOW**	0.050 - 2.000	A05
AB09108	Cylindrospermopsin 1X	1.586 Abs [1.5280]	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	B05
AB09108dup	Cylindrospermopsin 1X	1.555 Abs	< 0.000 ng/mL	Out(LR)	0.050 - 2.000	C05
AB09108dup	Cylindrospermopsin 1X	1.533 Abs [1.5440]	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.050 - 2.000	D05
20120820LB	Cylindrospermopsin 1X	1.446 Abs	0.016 ng/mL	**LOW**	0.050 - 2.000	E05
20120820LB	Cylindrospermopsin 1X	1.483 Abs [1.4645]	0.003 ng/mL [0.010]	Low [Low]	0.050 - 2.000	F05
20120820LBdup	Cylindrospermopsin 1X	1.477 Abs	0.005 ng/mL	**LOW**	0.050 - 2.000	G05
20120820LBdup	Cylindrospermopsin 1X	1.481 Abs [1.4790]	0.004 ng/mL [0.005]	Low [Low]	0.050 - 2.000	H05

Notes

August 22, 2012

Signature Kimberly Bates

Cylindrospermopsin 1X ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB09103	Salamonie (Lost Bridge SRA)	8/20/2012	8/22/2012	< 0.050
AB09104	Sand Lake	8/20/2012	8/22/2012	< 0.050
AB09105	Lake James (Pokagon)	8/20/2012	8/22/2012	< 0.050
AB09109	Sand Lake (Field Duplicate)	8/20/2012	8/22/2012	< 0.050
AB09843	Long Lake	8/20/2012	8/22/2012	< 0.050
AB09843LD	Long Lake (Lab Duplicate)	8/20/2012	8/22/2012	< 0.050
AB09106	Mississinewa	8/21/2012	8/22/2012	< 0.050
AB09107	Worster (Potato Creek)	8/21/2012	8/22/2012	< 0.050
AB09108	Field Blank	8/21/2012	8/22/2012	< 0.050
AB09108Dup	Duplcate	8/21/2012	8/22/2012	< 0.050
20120820LB	Lab Blank	8/20/2012	8/22/2012	< 0.050
20120820LB	Duplicate	8/20/2012	8/22/2012	< 0.050