



Anatoxin-A ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB29645	Pokagon SP	6/19/2017	6/21/2017	< 0.40
AB29646	Southern Basin Inn's Beach	6/19/2017	6/21/2017	< 0.40
AB29647	Chain O'Lakes SP	6/19/2017	6/21/2017	< 0.40
AB29648	Lost Bridge West SRA	6/19/2017	6/21/2017	< 0.40
AB29649	Mississinewa Lake Miami SRA	6/20/2017	6/21/2017	< 0.40
AB29650	Potato Creek SP	6/20/2017	6/21/2017	< 0.40
AB29643	Mississinewa (Field Duplicate)	6/20/2017	6/21/2017	< 0.40
AB29644	Field Blank	6/20/2017	6/21/2017	< 0.40
AB29645LD	Pokagon (Lab Duplicate)	6/19/2017	6/21/2017	< 0.40
20170621LB	Lab Blank	6/21/2017	6/21/2017	< 0.40



Assay Calibration Report

Assay Information

Assay Name: Anatoxin a ELISA (2 rep) Units: ng/mL
Assay Mode: 4-Parameter Logistic # of decimals: 3
Normal: 0.150 - 5.000 Assay Description: SA

Controls:

Normal Control

Standards:

Std1, Concentration = 0.000, Minimum number to use: 2
Std2, Concentration = 0.150, Minimum number to use: 2
Std3, Concentration = 0.400, Minimum number to use: 2
Std4, Concentration = 1.000, Minimum number to use: 2
Std5, Concentration = 2.500, Minimum number to use: 2
Std6, Concentration = 5.000, Minimum number to use: 2

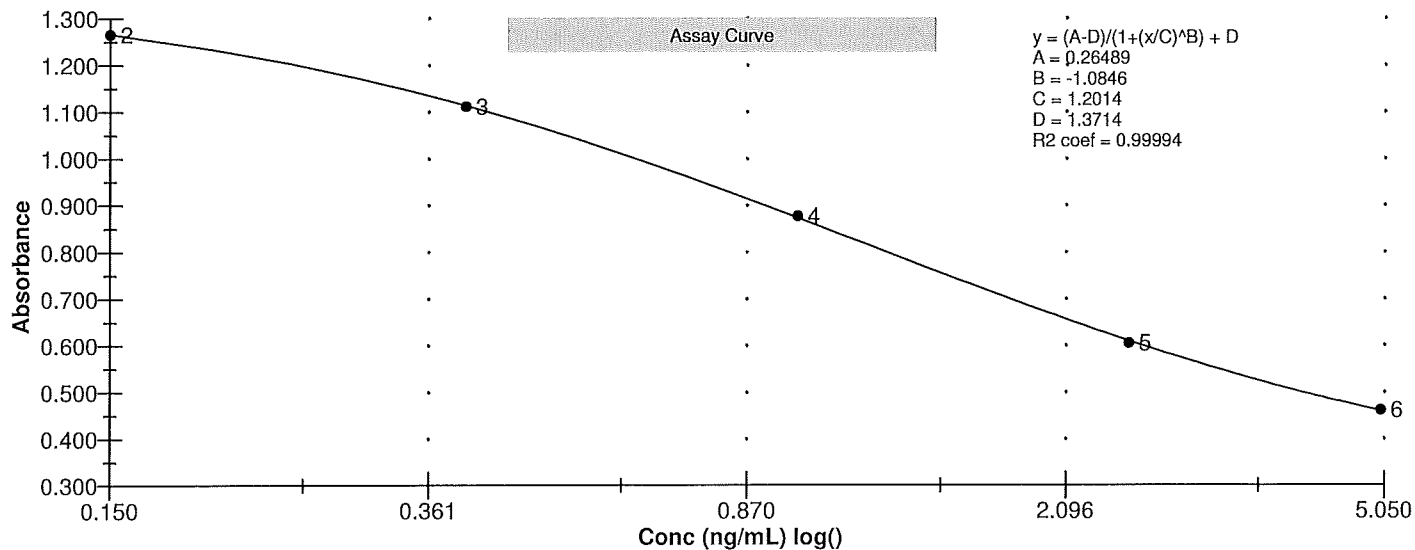
Curve valid interval: 7 days 0 hours

Axis Mode: Y = Abs, X = Log(Conc)

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
6/21/2017 4:23:49 PM			
Std1	1.372 Abs	< 0.000 ng/mL	B01
Std2	1.216 Abs	0.226 ng/mL	C01
Std2	1.317 Abs	0.078 ng/mL	D01
Std3	1.120 Abs	0.389 ng/mL	E01
Std3	1.103 Abs	0.421 ng/mL	F01
Std4	0.847 Abs	1.091 ng/mL	G01
Std4	0.908 Abs	0.888 ng/mL	H01
Std5	0.615 Abs	2.444 ng/mL	A02
Std5	0.596 Abs	2.634 ng/mL	B02
Std6	0.465 Abs	4.835 ng/mL	C02
Std6	0.456 Abs	> 5.000 ng/mL	D02
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Normal Control	1.065 Abs	0.496 ng/mL	F02
Normal Control	0.784 Abs	1.347 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.372						
Std2	1.266	0.071	5.64	0.152	0.105	68.85	1.33
Std3	1.112	0.012	1.08	0.405	0.023	5.59	1.25
Std4	0.877	0.043	4.92	0.989	0.144	14.51	-1.10
Std5	0.605	0.013	2.22	2.539	0.134	5.29	1.56
Std6	0.461	0.006	1.38				-100.00
Normal Control	0.924	0.199	21.49	0.921	0.602	65.30	





Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
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Std1	Anatoxin a ELISA (2 rep)	1.201 Abs	0.243 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.372 Abs	< 0.000 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.216 Abs	0.213 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.317 Abs	< 0.000 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.120 Abs	0.407 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.103 Abs	0.442 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	0.847 Abs	1.099 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	0.908 Abs	0.910 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.615 Abs	2.348 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.596 Abs	2.528 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.465 Abs	4.995 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.456 Abs	> 5.000 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	0.784 Abs	1.347 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	1.065 Abs	0.496 ng/mL			F02
AB29645	Anatoxin a ELISA (2 rep)	1.476 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G02
AB29645	Anatoxin a ELISA (2 rep)	1.198 Abs [1.3370] {14.7	0.280 ng/mL [0.056]	[Low]	0.150 - 5.000	H02
AB29646	Anatoxin a ELISA (2 rep)	1.061 Abs	0.554 ng/mL		0.150 - 5.000	A03
AB29646	Anatoxin a ELISA (2 rep)	1.351 Abs [1.2060] {17.0	0.034 ng/mL [0.266] {125.1 CV	LOW	0.150 - 5.000	B03
AB29647	Anatoxin a ELISA (2 rep)	1.127 Abs	0.414 ng/mL		0.150 - 5.000	C03
AB29647	Anatoxin a ELISA (2 rep)	1.190 Abs [1.1585] {3.8 C	0.295 ng/mL [0.352] {23.7 CV}		0.150 - 5.000	D03
AB29648	Anatoxin a ELISA (2 rep)	1.368 Abs	0.007 ng/mL	LOW	0.150 - 5.000	E03
AB29648	Anatoxin a ELISA (2 rep)	1.288 Abs [1.3280] {4.3 C	0.131 ng/mL [0.069] {127.1 CV	Low [Low]	0.150 - 5.000	F03
AB29649	Anatoxin a ELISA (2 rep)	1.391 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G03
AB29649	Anatoxin a ELISA (2 rep)	1.191 Abs [1.2910] {11.0	0.293 ng/mL [0.126]	[Low]	0.150 - 5.000	H03
AB29650	Anatoxin a ELISA (2 rep)	1.321 Abs	0.080 ng/mL	LOW	0.150 - 5.000	A04
AB29650	Anatoxin a ELISA (2 rep)	1.285 Abs [1.3030] {2.0 C	0.135 ng/mL [0.108] {36.2 CV}	Low [Low]	0.150 - 5.000	B04
AB29643	Anatoxin a ELISA (2 rep)	1.289 Abs	0.129 ng/mL	LOW	0.150 - 5.000	C04
AB29643	Anatoxin a ELISA (2 rep)	1.371 Abs [1.3300] {4.4 C	0.001 ng/mL [0.066] {139.2 CV	Low [Low]	0.150 - 5.000	D04
AB29644	Anatoxin a ELISA (2 rep)	1.159 Abs	0.351 ng/mL		0.150 - 5.000	E04
AB29644	Anatoxin a ELISA (2 rep)	1.415 Abs [1.2870] {14.1	< 0.000 ng/mL [0.132]	Out(LR) [Low]	0.150 - 5.000	F04
AB29645LD	Anatoxin a ELISA (2 rep)	1.344 Abs	0.045 ng/mL	LOW	0.150 - 5.000	G04
AB29645LD	Anatoxin a ELISA (2 rep)	1.434 Abs [1.3890] {4.6 C	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	H04
20170621LB	Anatoxin a ELISA (2 rep)	1.192 Abs	0.290 ng/mL		0.150 - 5.000	A05
20170621LB	Anatoxin a ELISA (2 rep)	1.265 Abs [1.2285] {4.2 C	0.167 ng/mL [0.228] {38.1 CV}		0.150 - 5.000	B05

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

David Jordan

Laboratory Analyst Signature

6/21/17

Date