



Anatoxin-A ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB28356	Mississinewa (Field Duplicate)	8/1/2016	8/3/2016	< 0.15
AB28357	Field Blank	8/1/2016	8/3/2016	< 0.15
AB28358	Mississinewa Miami SRA	8/1/2016	8/3/2016	< 0.15
AB28359	Potato Creek SP	8/1/2016	8/3/2016	< 0.15
AB28360	Pokagon SP	8/2/2016	8/3/2016	< 0.15
AB28361	Southern Basin Inn's Beach	8/2/2016	8/3/2016	< 0.15
AB28361LD	Southern Basin (Lab Duplicate)	8/2/2016	8/3/2016	< 0.15
AB28362	Chain O'Lakes SP	8/2/2016	8/3/2016	< 0.15
AB28363	Lost Bridge West SRA	8/2/2016	8/3/2016	0.223
AB28364	Ferdinand SP	8/1/2016	8/3/2016	< 0.15
AB28365	Lincoln SP	7/31/2016	8/3/2016	< 0.15
20160803LB	Lab Blank	8/3/2016	8/3/2016	< 0.15



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: hISA

Controls:

Normal Control

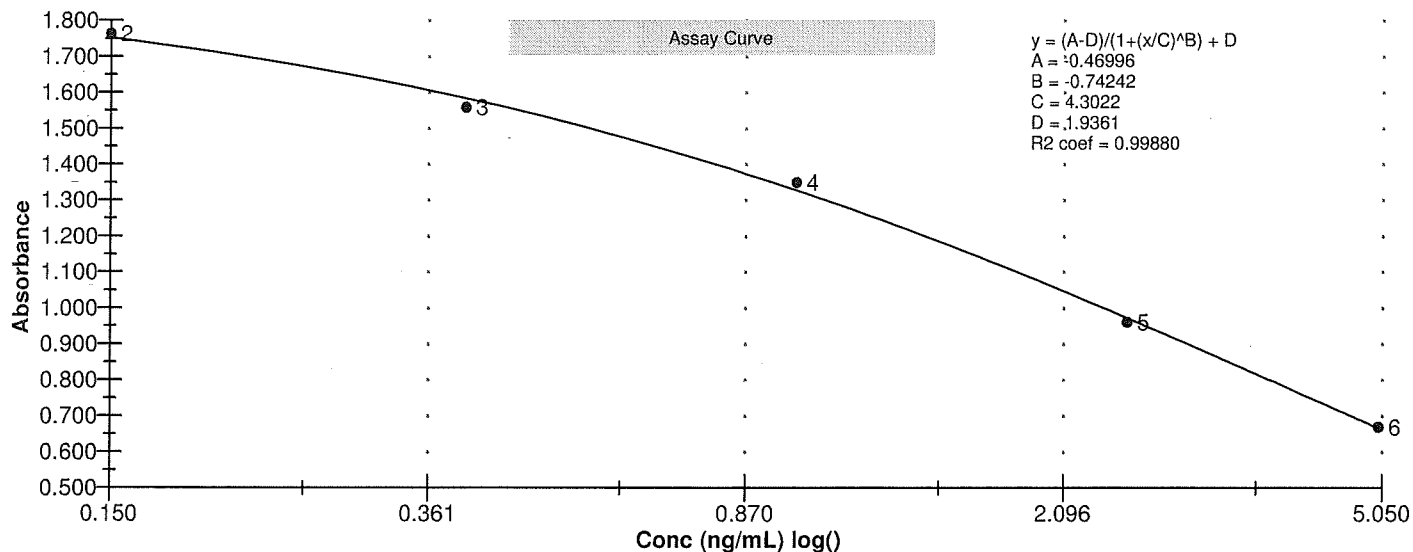
Standards:

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
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Std1	1.834 Abs	0.065 ng/mL	A01
Std1	2.036 Abs	< 0.000 ng/mL	B01
Std2	1.764 Abs	0.136 ng/mL	D01
Std3	1.536 Abs	0.491 ng/mL	E01
Std3	1.582 Abs	0.403 ng/mL	F01
Std4	1.434 Abs	0.715 ng/mL	G01
Std4	1.266 Abs	1.194 ng/mL	H01
Std5	0.950 Abs	2.633 ng/mL	A02
Std5	0.972 Abs	2.501 ng/mL	B02
Std6	0.688 Abs	4.760 ng/mL	C02
Std6	0.649 Abs	> 5.000 ng/mL	D02
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Normal Control	1.394 Abs	0.815 ng/mL	F02
Normal Control	1.450 Abs	0.676 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.935	0.143	7.38				
Std2	1.764			0.136			-9.33
Std3	1.559	0.033	2.09	0.447	0.062	13.92	11.75
Std4	1.350	0.119	8.80	0.954	0.339	35.48	-4.60
Std5	0.961	0.016	1.62	2.567	0.093	3.64	2.68
Std6	0.669	0.028	4.13				-100.00
Normal Control	1.422	0.040	2.78	0.745	0.098	13.18	





Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
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Std1	Anatoxin a ELISA (2 rep)	1.834 Abs	0.094 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	2.036 Abs	< 0.000 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	1.884 Abs	0.045 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.764 Abs	0.174 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.536 Abs	0.528 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.582 Abs	0.444 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	1.434 Abs	0.740 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	1.266 Abs	1.188 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.950 Abs	2.559 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.972 Abs	2.430 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.688 Abs	4.795 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.649 Abs	> 5.000 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	1.450 Abs	0.676 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	1.394 Abs	0.815 ng/mL			F02
AB28356	Anatoxin a ELISA (2 rep)	1.926 Abs	0.003 ng/mL	LOW	0.150 - 5.000	G02
AB28356	Anatoxin a ELISA (2 rep)	1.790 Abs [1.8580] {5.2 CV}	0.108 ng/mL [0.044] {133.8 CV}	Low [Low]	0.150 - 5.000	H02
AB28357	Anatoxin a ELISA (2 rep)	1.872 Abs	0.034 ng/mL	LOW	0.150 - 5.000	A03
AB28357	Anatoxin a ELISA (2 rep)	2.030 Abs [1.9510] {5.7 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	B03
AB28358	Anatoxin a ELISA (2 rep)	1.929 Abs	0.002 ng/mL	LOW	0.150 - 5.000	C03
AB28358	Anatoxin a ELISA (2 rep)	1.788 Abs [1.8585] {5.4 CV}	0.110 ng/mL [0.044] {136.4 CV}	Low [Low]	0.150 - 5.000	D03
AB28359	Anatoxin a ELISA (2 rep)	1.973 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	E03
AB28359	Anatoxin a ELISA (2 rep)	1.957 Abs [1.9650] {0.8 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	F03
AB28360	Anatoxin a ELISA (2 rep)	1.968 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G03
AB28360	Anatoxin a ELISA (2 rep)	1.867 Abs [1.9175] {3.7 CV}	0.038 ng/mL [0.006]	Low [Low]	0.150 - 5.000	H03
AB28361	Anatoxin a ELISA (2 rep)	2.003 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	A04
AB28361	Anatoxin a ELISA (2 rep)	1.937 Abs [1.9700] {2.4 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	B04
AB28361LD	Anatoxin a ELISA (2 rep)	2.065 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	C04
AB28361LD	Anatoxin a ELISA (2 rep)	1.869 Abs [1.9670] {7.0 CV}	0.036 ng/mL [< 0.000]	Low [Out(LR)]	0.150 - 5.000	D04
AB28362	Anatoxin a ELISA (2 rep)	1.733 Abs	0.174 ng/mL		0.150 - 5.000	E04
AB28362	Anatoxin a ELISA (2 rep)	1.807 Abs [1.7700] {3.0 CV}	0.090 ng/mL [0.129] {45.0 CV}	Low [Low]	0.150 - 5.000	F04
AB28363	Anatoxin a ELISA (2 rep)	1.669 Abs	0.261 ng/mL		0.150 - 5.000	G04
AB28363	Anatoxin a ELISA (2 rep)	1.722 Abs [1.6955] {2.2 CV}	0.188 ng/mL [0.223] {23.0 CV}		0.150 - 5.000	H04
AB28364	Anatoxin a ELISA (2 rep)	1.893 Abs	0.020 ng/mL	LOW	0.150 - 5.000	A05
AB28364	Anatoxin a ELISA (2 rep)	1.941 Abs [1.9170] {1.8 CV}	< 0.000 ng/mL [0.006]	Out(LR) [Low]	0.150 - 5.000	B05
AB28365	Anatoxin a ELISA (2 rep)	1.897 Abs	0.017 ng/mL	LOW	0.150 - 5.000	C05
AB28365	Anatoxin a ELISA (2 rep)	2.008 Abs [1.9525] {4.0 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	D05
20160803LB	Anatoxin a ELISA (2 rep)	1.944 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	E05
20160803LB	Anatoxin a ELISA (2 rep)	2.108 Abs [2.0260] {5.7 CV}	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	F05

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

8/4/2016

Date