



Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB33394	Chain O'Lakes State Park	6/25/2018	6/26/2018	< 0.400
AB33395	Raccoon Lake SRA	6/25/2018	6/26/2018	< 0.400
AB33396	Whitewater Memorial State Park	6/25/2018	6/26/2018	< 0.400
AB33397	Dog Park Lake	6/25/2018	6/26/2018	< 0.400
AB33392	Chain O'Lakes (Field Duplicate)	6/25/2018	6/26/2018	< 0.400
AB33393	Field Blank	6/25/2018	6/26/2018	< 0.400
AB33395LD	Raccoon Lake (Lab Duplicate)	6/25/2018	6/26/2018	< 0.400
20180626LB	Lab Blank	6/26/2018	6/26/2018	< 0.400



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
6/26/2018 3:38:23 PM						
Std1	Anatoxin a ELISA (2 rep)	1.207 Abs	0.084 ng/mL		0.000	A01
Std1	Anatoxin a ELISA (2 rep)	1.434 Abs	< 0.000 ng/mL		0.000	B01
Std2	Anatoxin a ELISA (2 rep)	0.985 Abs	0.651 ng/mL		0.150	C01
Std2	Anatoxin a ELISA (2 rep)	1.307 Abs	0.001 ng/mL		0.150	D01
Std3	Anatoxin a ELISA (2 rep)	1.062 Abs	0.391 ng/mL		0.400	E01
Std3	Anatoxin a ELISA (2 rep)	1.052 Abs	0.420 ng/mL		0.400	F01
Std4	Anatoxin a ELISA (2 rep)	0.937 Abs	0.853 ng/mL		1.000	G01
Std4	Anatoxin a ELISA (2 rep)	0.961 Abs	0.748 ng/mL		1.000	H01
Std5	Anatoxin a ELISA (2 rep)	0.632 Abs	3.101 ng/mL		2.500	A02
Std5	Anatoxin a ELISA (2 rep)	0.670 Abs	2.706 ng/mL		2.500	B02
Std6	Anatoxin a ELISA (2 rep)	0.504 Abs	4.773 ng/mL		5.000	C02
Std6	Anatoxin a ELISA (2 rep)	0.502 Abs	4.804 ng/mL		5.000	D02
Normal Control	Anatoxin a ELISA (2 rep)	0.871 Abs	1.174 ng/mL			E02
Normal Control	Anatoxin a ELISA (2 rep)	1.084 Abs	0.385 ng/mL			F02
AB33394	Anatoxin a ELISA (2 rep)	1.460 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G02
AB33394	Anatoxin a ELISA (2 rep)	1.588 Abs [1.5240] {5.9 C	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	H02
AB33395	Anatoxin a ELISA (2 rep)	1.403 Abs	0.003 ng/mL	LOW	0.150 - 5.000	A03
AB33395	Anatoxin a ELISA (2 rep)	1.317 Abs [1.3600] {4.5 C	0.044 ng/mL [0.018] {123.4 CV	Low [Low]	0.150 - 5.000	B03
AB33396	Anatoxin a ELISA (2 rep)	1.228 Abs	0.136 ng/mL	LOW	0.150 - 5.000	C03
AB33396	Anatoxin a ELISA (2 rep)	1.403 Abs [1.3155] {9.4 C	0.003 ng/mL [0.045] {135.3 CV	Low [Low]	0.150 - 5.000	D03
AB33397	Anatoxin a ELISA (2 rep)	1.559 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	E03
AB33397	Anatoxin a ELISA (2 rep)	1.542 Abs [1.5505] {0.8 C	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	F03
AB33392	Anatoxin a ELISA (2 rep)	1.525 Abs	< 0.000 ng/mL	Out(LR)	0.150 - 5.000	G03
AB33392	Anatoxin a ELISA (2 rep)	1.522 Abs [1.5235] {0.1 C	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	0.150 - 5.000	H03
AB33393	Anatoxin a ELISA (2 rep)	1.386 Abs	0.008 ng/mL	LOW	0.150 - 5.000	A04
AB33393	Anatoxin a ELISA (2 rep)	1.331 Abs [1.3585] {2.9 C	0.034 ng/mL [0.019] {87.5 CV}	Low [Low]	0.150 - 5.000	B04
AB33395LD	Anatoxin a ELISA (2 rep)	1.171 Abs	0.228 ng/mL		0.150 - 5.000	C04
AB33395LD	Anatoxin a ELISA (2 rep)	1.192 Abs [1.1815] {1.3 C	0.191 ng/mL [0.209] {12.5 CV}		0.150 - 5.000	D04
20180626LB	Anatoxin a ELISA (2 rep)	1.136 Abs	0.298 ng/mL		0.150 - 5.000	E04
20180626LB	Anatoxin a ELISA (2 rep)	1.382 Abs [1.2590] {13.8	0.009 ng/mL [0.098] {133.1 CV	Low [Low]	0.150 - 5.000	F04

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

6/27/18

Date



Assay Calibration Report

Assay Information

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

Assay Calibration and Statistics

Name	Absorbance	Concentration	Position
6/26/2018 3:38:23 PM			
Std1	1.434 Abs	< 0.000 ng/mL	B01
Std3	1.062 Abs	0.441 ng/mL	E01
Std3	1.052 Abs	0.469 ng/mL	F01
Std4	0.937 Abs	0.865 ng/mL	G01
Std4	0.961 Abs	0.768 ng/mL	H01
Std5	0.632 Abs	3.044 ng/mL	A02
Std5	0.670 Abs	2.646 ng/mL	B02
Std6	0.504 Abs	4.794 ng/mL	C02
Std6	0.502 Abs	4.827 ng/mL	D02
6/26/2018 3:38:23 PM			
Normal Control	1.084 Abs	0.385 ng/mL	F02
Normal Control	0.871 Abs	1.174 ng/mL	E02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.434						
Std3	1.057	0.007	0.67	0.455	0.020	4.35	13.75
Std4	0.949	0.017	1.79	0.817	0.069	8.40	-18.30
Std5	0.651	0.027	4.13	2.845	0.281	9.89	13.80
Std6	0.503	0.001	0.28	4.811	0.023	0.49	-3.78
Normal Control	0.977	0.151	15.41	0.780	0.558	71.57	

