



Anatoxin-A Receptor-Binding Assay Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB20646	Lincoln SP	5/17/2015	5/20/2015	<10
AB20647	Ferdinand SP	5/18/2015	5/20/2015	<10
AB20679	Mississinewa Miami SRA	5/18/2015	5/20/2015	<10
AB20680	Potato Creek SP	5/18/2015	5/20/2015	<10
20150518LB	Lab Blank	5/18/2015	5/20/2015	<10
AB20679LD	Mississinewa Miami (Lab Duplicate)	5/18/2015	5/20/2015	<10
AB20681	Pokagon SP	5/19/2015	5/20/2015	<10
AB20682	Chain O'Lakes SP	5/19/2015	5/20/2015	<10
AB20683	Lost Bridge West SRA	5/19/2015	5/20/2015	<10
AB20677	Chain O'Lakes (Field Duplicate)	5/19/2015	5/20/2015	<10
AB20678	Field Blank	5/19/2015	5/20/2015	<10



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
5/20/2015 3:17:02 PM						
Std1	ANATOXIN-A 1X	1.901 Abs	< 0.000 ng/mL		0.000	A01
Std1	ANATOXIN-A 1X	1.740 Abs	1.605 ng/mL		0.000	B01
Std1	ANATOXIN-A 1X	1.869 Abs	< 0.000 ng/mL		0.000	C01
Std2	ANATOXIN-A 1X	1.492 Abs	8.850 ng/mL		10.000	D01
Std2	ANATOXIN-A 1X	1.404 Abs	12.750 ng/mL		10.000	E01
Std2	ANATOXIN-A 1X	1.487 Abs	9.050 ng/mL		10.000	F01
Std3	ANATOXIN-A 1X	1.078 Abs	40.260 ng/mL		35.000	G01
Std3	ANATOXIN-A 1X	1.168 Abs	29.570 ng/mL		35.000	H01
Std3	ANATOXIN-A 1X	1.125 Abs	34.250 ng/mL		35.000	A02
Std4	ANATOXIN-A 1X	0.787 Abs	128.950 ng/mL		125.000	B02
Std4	ANATOXIN-A 1X	0.786 Abs	129.500 ng/mL		125.000	C02
Std4	ANATOXIN-A 1X	0.791 Abs	126.400 ng/mL		125.000	D02
Std5	ANATOXIN-A 1X	0.580 Abs	> 500.000 ng/mL		500.000	E02
Std5	ANATOXIN-A 1X	0.605 Abs	476.000 ng/mL		500.000	F02
Std5	ANATOXIN-A 1X	0.625 Abs	385.000 ng/mL		500.000	G02
AB20679	ANATOXIN-A 1X	1.669 Abs	3.220 ng/mL	LOW	10.000 - 500.000	H02
AB20679	ANATOXIN-A 1X	1.798 Abs	0.534 ng/mL	LOW	10.000 - 500.000	A03
AB20679	ANATOXIN-A 1X	1.754 Abs [1.7403] [3.8 C	1.325 ng/mL [1.595] [81.5 CV]	Low [Low]	10.000 - 500.000	B03
AB20680	ANATOXIN-A 1X	1.612 Abs	4.765 ng/mL	LOW	10.000 - 500.000	C03
AB20680	ANATOXIN-A 1X	1.739 Abs	1.625 ng/mL	LOW	10.000 - 500.000	D03
AB20680	ANATOXIN-A 1X	1.562 Abs [1.6377] [5.6 C	6.315 ng/mL [4.040] [56.4 CV]	Low [Low]	10.000 - 500.000	E03
AB20681	ANATOXIN-A 1X	1.768 Abs	1.055 ng/mL	LOW	10.000 - 500.000	F03
AB20681	ANATOXIN-A 1X	1.832 Abs	0.045 ng/mL	LOW	10.000 - 500.000	G03
AB20681	ANATOXIN-A 1X	1.701 Abs [1.7670] [3.7 C	2.450 ng/mL [1.075] [102.1 CV]	Low [Low]	10.000 - 500.000	H03
AB20682	ANATOXIN-A 1X	1.690 Abs	2.710 ng/mL	LOW	10.000 - 500.000	A04
AB20682	ANATOXIN-A 1X	1.569 Abs	6.085 ng/mL	LOW	10.000 - 500.000	B04
AB20682	ANATOXIN-A 1X	1.669 Abs [1.6427] [3.9 C	3.220 ng/mL [3.905] [45.4 CV]	Low [Low]	10.000 - 500.000	C04
AB20683	ANATOXIN-A 1X	1.408 Abs	12.550 ng/mL		10.000 - 500.000	D04
AB20683	ANATOXIN-A 1X	1.503 Abs	8.420 ng/mL	LOW	10.000 - 500.000	E04
AB20683	ANATOXIN-A 1X	1.789 Abs [1.5667] [12.7	0.683 ng/mL [6.160] [83.5 CV]	Low [Low]	10.000 - 500.000	F04
AB20677	ANATOXIN-A 1X	1.546 Abs	6.855 ng/mL	LOW	10.000 - 500.000	G04
AB20677	ANATOXIN-A 1X	1.611 Abs	4.790 ng/mL	LOW	10.000 - 500.000	H04
AB20677	ANATOXIN-A 1X	1.667 Abs [1.6080] [3.8 C	3.270 ng/mL [4.880] [36.2 CV]	Low [Low]	10.000 - 500.000	A05
AB20678	ANATOXIN-A 1X	1.756 Abs	1.285 ng/mL	LOW	10.000 - 500.000	B05
AB20678	ANATOXIN-A 1X	1.636 Abs	4.085 ng/mL	LOW	10.000 - 500.000	C05
AB20678	ANATOXIN-A 1X	1.651 Abs [1.6810] [3.9 C	3.685 ng/mL [2.925] [50.2 CV]	Low [Low]	10.000 - 500.000	D05
AB20646	ANATOXIN-A 1X	1.733 Abs	1.750 ng/mL	LOW	10.000 - 500.000	E05
AB20646	ANATOXIN-A 1X	1.644 Abs	3.870 ng/mL	LOW	10.000 - 500.000	F05
AB20646	ANATOXIN-A 1X	1.690 Abs [1.6890] [2.6 C	2.710 ng/mL [2.730] [38.2 CV]	Low [Low]	10.000 - 500.000	G05
AB20647	ANATOXIN-A 1X	1.759 Abs	1.225 ng/mL	LOW	10.000 - 500.000	H05
AB20647	ANATOXIN-A 1X	1.760 Abs	1.209 ng/mL	LOW	10.000 - 500.000	A06
AB20647	ANATOXIN-A 1X	1.553 Abs [1.6907] [7.1 C	6.615 ng/mL [2.690] [103.3 CV]	Low [Low]	10.000 - 500.000	B06
20150518LB	ANATOXIN-A 1X	1.410 Abs	12.455 ng/mL		10.000 - 500.000	C06
20150518LB	ANATOXIN-A 1X	1.563 Abs	6.280 ng/mL	LOW	10.000 - 500.000	D06
20150518LB	ANATOXIN-A 1X	1.656 Abs [1.5430] [8.1 C	3.550 ng/mL [6.960] [61.4 CV]	Low [Low]	10.000 - 500.000	E06
AB20679LD	ANATOXIN-A 1X	1.514 Abs	8.000 ng/mL	LOW	10.000 - 500.000	F06
AB20679LD	ANATOXIN-A 1X	1.709 Abs	2.270 ng/mL	LOW	10.000 - 500.000	G06
AB20679LD	ANATOXIN-A 1X	1.712 Abs [1.6450] [6.9 C	2.200 ng/mL [3.840] [80.1 CV]	Low [Low]	10.000 - 500.000	H06

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

5-21-2015

Date



Assay Calibration Report

Assay Information

Assay Name: ANATOXIN-A 1X
 Assay Mode: 4-Parameter Logistic
 Normal: 10.000 - 500.000

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

Standards:

Std1, Concentration = 0.000, Minimum number to use: 3
 Std2, Concentration = 10.000, Minimum number to use: 3
 Std3, Concentration = 35.000, Minimum number to use: 3
 Std4, Concentration = 125.000, Minimum number to use: 3
 Std5, Concentration = 500.000, Minimum number to use: 3
 Curve valid interval: 7 days 0 hours
 Axis Mode: Y = Abs, X = Log(Conc)

Assay Calibration and Statistics

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Std5	0.625 Abs	385.000 ng/mL	G02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.837	0.085	4.64				
Std2	1.461	0.049	3.38	10.217	2.196	21.50	2.17
Std3	1.124	0.045	4.01	34.693	5.359	15.45	-0.88
Std4	0.788	0.003	0.34	128.283	1.654	1.29	2.63
Std5	0.603	0.023	3.74				-100.00

