



Anatoxin-A Receptor-Binding Assay Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB22633	Mississinewa Lake Miami SRA	8/10/2015	8/13/2015	<10
AB22634	Potato Creek SP	8/10/2015	8/13/2015	<10
AB22635	Pokagon SP	8/11/2015	8/13/2015	<10
AB22636	Chain O'Lakes SP	8/11/2015	8/13/2015	17.150
AB22637	Lost Bridge West SRA	8/11/2015	8/13/2015	22.100
AB22638	Lincoln SP	8/9/2015	8/13/2015	17.100
AB22639	Ferdinand SP	8/10/2015	8/13/2015	<10
AB22640	Lost Bridge West SRA (Field Duplicate)	8/11/2015	8/13/2015	<10
AB22641	Field Blank	8/11/2015	8/13/2015	<10
AB22637LD	Lost Bridge West SRA (Lab Duplicate)	8/11/2015	8/13/2015	<10
20150812LB	Lab Blank	8/11/2015	8/13/2015	<10



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
8/13/2015 4:50:43 PM						
Std1	ANATOXIN-A 1X	2.274 Abs	< 0.000 ng/mL		0.000	A01
Std1	ANATOXIN-A 1X	2.210 Abs	< 0.000 ng/mL		0.000	B01
Std1	ANATOXIN-A 1X	2.148 Abs	0.442 ng/mL		0.000	C01
Std2	ANATOXIN-A 1X	1.805 Abs	7.685 ng/mL		10.000	D01
Std2	ANATOXIN-A 1X	1.736 Abs	10.050 ng/mL		10.000	E01
Std3	ANATOXIN-A 1X	1.484 Abs	22.635 ng/mL		35.000	G01
Std3	ANATOXIN-A 1X	1.545 Abs	18.885 ng/mL		35.000	H01
Std3	ANATOXIN-A 1X	1.257 Abs	42.900 ng/mL		35.000	A02
Std4	ANATOXIN-A 1X	0.859 Abs	142.100 ng/mL		125.000	B02
Std4	ANATOXIN-A 1X	0.837 Abs	153.650 ng/mL		125.000	C02
Std5	ANATOXIN-A 1X	0.598 Abs	457.000 ng/mL		500.000	E02
Std5	ANATOXIN-A 1X	0.628 Abs	383.900 ng/mL		500.000	F02
Std5	ANATOXIN-A 1X	0.617 Abs	408.500 ng/mL		500.000	G02
AB22633	ANATOXIN-A 1X	1.882 Abs	7.460 ng/mL	LOW	10.000 - 500.000	H02
AB22633	ANATOXIN-A 1X	2.267 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	A03
AB22633	ANATOXIN-A 1X	2.191 Abs [2.1133] [9.6 C	0.139 ng/mL [1.515] [136.2 CV	Low [Low]	10.000 - 500.000	B03
AB22634	ANATOXIN-A 1X	2.119 Abs	1.400 ng/mL	LOW	10.000 - 500.000	C03
AB22634	ANATOXIN-A 1X	2.063 Abs	2.585 ng/mL	LOW	10.000 - 500.000	D03
AB22634	ANATOXIN-A 1X	2.142 Abs [2.1080] [1.9 C	0.960 ng/mL [1.620] [51.0 CV]	Low [Low]	10.000 - 500.000	E03
AB22635	ANATOXIN-A 1X	1.942 Abs	5.660 ng/mL	LOW	10.000 - 500.000	F03
AB22635	ANATOXIN-A 1X	2.130 Abs	1.185 ng/mL	LOW	10.000 - 500.000	G03
AB22635	ANATOXIN-A 1X	2.029 Abs [2.0337] [4.6 C	3.375 ng/mL [3.265] [65.7 CV]	Low [Low]	10.000 - 500.000	H03
AB22636	ANATOXIN-A 1X	1.763 Abs	11.665 ng/mL		10.000 - 500.000	A04
AB22636	ANATOXIN-A 1X	1.568 Abs	20.940 ng/mL		10.000 - 500.000	B04
AB22636	ANATOXIN-A 1X	1.586 Abs [1.6390] [6.6 C	19.925 ng/mL [17.150] [29.1 C		10.000 - 500.000	C04
AB22637	ANATOXIN-A 1X	1.478 Abs	26.600 ng/mL		10.000 - 500.000	D04
AB22637	ANATOXIN-A 1X	1.531 Abs	23.140 ng/mL		10.000 - 500.000	E04
AB22637	ANATOXIN-A 1X	1.635 Abs [1.5480] [5.2 C	17.350 ng/mL [22.105] [20.9 C		10.000 - 500.000	F04
AB22638	ANATOXIN-A 1X	1.549 Abs	22.050 ng/mL		10.000 - 500.000	G04
AB22638	ANATOXIN-A 1X	1.665 Abs	15.890 ng/mL		10.000 - 500.000	H04
AB22638	ANATOXIN-A 1X	1.706 Abs [1.6400] [5.0 C	14.030 ng/mL [17.100] [24.2 C		10.000 - 500.000	A05
AB22639	ANATOXIN-A 1X	1.922 Abs	6.235 ng/mL	LOW	10.000 - 500.000	B05
AB22639	ANATOXIN-A 1X	1.887 Abs	7.300 ng/mL	LOW	10.000 - 500.000	C05
AB22639	ANATOXIN-A 1X	1.833 Abs [1.8807] [2.4 C	9.080 ng/mL [7.500] [19.1 CV]	Low [Low]	10.000 - 500.000	D05
AB22640	ANATOXIN-A 1X	1.799 Abs	10.300 ng/mL		10.000 - 500.000	E05
AB22640	ANATOXIN-A 1X	1.760 Abs	11.785 ng/mL		10.000 - 500.000	F05
AB22640	ANATOXIN-A 1X	1.875 Abs [1.8113] [3.2 C	7.680 ng/mL [9.850] [20.9 CV]	Low [Low]	10.000 - 500.000	G05
AB22641	ANATOXIN-A 1X	1.932 Abs	5.945 ng/mL	LOW	10.000 - 500.000	H05
AB22641	ANATOXIN-A 1X	2.109 Abs	1.600 ng/mL	LOW	10.000 - 500.000	A06
AB22641	ANATOXIN-A 1X	2.292 Abs [2.1110] [8.5 C	< 0.000 ng/mL [1.560] [81.4 C\	Out(LR) [Low]	10.000 - 500.000	B06
AB22637LD	ANATOXIN-A 1X	2.225 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	C06
AB22637LD	ANATOXIN-A 1X	2.067 Abs	2.495 ng/mL	LOW	10.000 - 500.000	D06
AB22637LD	ANATOXIN-A 1X	2.203 Abs [2.1650] [4.0 C	< 0.000 ng/mL [0.550] [81.4 C\	Out(LR) [Low]	10.000 - 500.000	E06
20150812LB	ANATOXIN-A 1X	2.342 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	F06
20150812LB	ANATOXIN-A 1X	1.997 Abs	4.170 ng/mL	LOW	10.000 - 500.000	G06
20150812LB	ANATOXIN-A 1X	2.163 Abs [2.1673] [8.0 C	0.585 ng/mL [0.510] [106.6 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

8/14/15

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

Name	Absorbance	Concentration	Position
8/13/2015 4:50:43 PM			
Std1	2.274 Abs	< 0.000 ng/mL	A01
Std1	2.210 Abs	< 0.000 ng/mL	B01
Std1	2.148 Abs	0.850 ng/mL	C01
Std2	1.805 Abs	10.075 ng/mL	D01
Std2	1.736 Abs	12.755 ng/mL	E01
Std3	1.484 Abs	26.190 ng/mL	G01
Std3	1.545 Abs	22.285 ng/mL	H01
Std3	1.257 Abs	46.550 ng/mL	A02
Std4	0.859 Abs	142.450 ng/mL	B02
Std4	0.837 Abs	153.700 ng/mL	C02
Std5	0.598 Abs	486.500 ng/mL	E02
Std5	0.628 Abs	398.000 ng/mL	F02
Std5	0.617 Abs	427.000 ng/mL	G02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.211	0.063	2.85				
Std2	1.770	0.049	2.76	11.415	1.895	16.60	14.15
Std3	1.429	0.152	10.62	31.675	13.029	41.13	-9.50
Std4	0.848	0.016	1.83	148.075	7.955	5.37	18.46
Std5	0.614	0.015	2.47	437.167	45.117	10.32	-12.57

