



Anatoxin-A Receptor-Binding Assay Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB22601	Quakertown SRA	7/20/2015	7/23/2015	<10
AB22602	Mounds SRA	7/20/2015	7/23/2015	<10
AB22603	Raccoon Lake SRA	7/20/2015	7/23/2015	<10
AB22599	Mounds SRA (Field Duplicate)	7/20/2015	7/23/2015	<10
AB22604	Hardy Lake SRA	7/21/2015	7/23/2015	<10
AB22600	Field Blank	7/21/2015	7/23/2015	<10
AB22604LD	Hardy Lake SRA (Lab Duplicate)	7/21/2015	7/23/2015	<10
20150722LB	Lab Blank	7/22/2015	7/23/2015	<10



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
7/23/2015 2:18:30 PM						
Std1	ANATOXIN-A 1X	2.102 Abs	< 0.000 ng/mL		0.000	A01
Std1	ANATOXIN-A 1X	1.757 Abs	0.855 ng/mL		0.000	B01
Std1	ANATOXIN-A 1X	1.957 Abs	< 0.000 ng/mL		0.000	C01
Std2	ANATOXIN-A 1X	1.484 Abs	8.050 ng/mL		10.000	D01
Std2	ANATOXIN-A 1X	1.404 Abs	12.575 ng/mL		10.000	E01
Std3	ANATOXIN-A 1X	1.202 Abs	33.270 ng/mL		35.000	G01
Std3	ANATOXIN-A 1X	1.289 Abs	22.315 ng/mL		35.000	H01
Std4	ANATOXIN-A 1X	0.844 Abs	152.850 ng/mL		125.000	B02
Std4	ANATOXIN-A 1X	0.858 Abs	144.000 ng/mL		125.000	C02
Std5	ANATOXIN-A 1X	0.613 Abs	428.000 ng/mL		500.000	F02
Std5	ANATOXIN-A 1X	0.680 Abs	313.300 ng/mL		500.000	G02
AB22601	ANATOXIN-A 1X	2.026 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	H02
AB22601	ANATOXIN-A 1X	2.034 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	A03
AB22601	ANATOXIN-A 1X	1.897 Abs [1.9857] {3.9 C	0.090 ng/mL [< 0.000] {128.6 C	Low [Out(LR)]	10.000 - 500.000	B03
AB22602	ANATOXIN-A 1X	1.711 Abs	2.130 ng/mL	LOW	10.000 - 500.000	C03
AB22602	ANATOXIN-A 1X	1.783 Abs	1.020 ng/mL	LOW	10.000 - 500.000	D03
AB22602	ANATOXIN-A 1X	1.778 Abs [1.7573] {2.3 C	1.085 ng/mL [1.368] {44.1 CV}	Low [Low]	10.000 - 500.000	E03
AB22603	ANATOXIN-A 1X	1.871 Abs	0.219 ng/mL	LOW	10.000 - 500.000	F03
AB22603	ANATOXIN-A 1X	1.854 Abs	0.329 ng/mL	LOW	10.000 - 500.000	G03
AB22603	ANATOXIN-A 1X	2.107 Abs [1.9440] {7.3 C	< 0.000 ng/mL [< 0.000] {28.4 C	Out(LR) [Out(LR)]	10.000 - 500.000	H03
AB22599	ANATOXIN-A 1X	1.945 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	A04
AB22599	ANATOXIN-A 1X	1.713 Abs	2.095 ng/mL	LOW	10.000 - 500.000	B04
AB22599	ANATOXIN-A 1X	1.731 Abs [1.7963] {7.2 C	1.780 ng/mL [0.863] {11.5 CV}	Low [Low]	10.000 - 500.000	C04
AB22604	ANATOXIN-A 1X	1.646 Abs	3.545 ng/mL	LOW	10.000 - 500.000	D04
AB22604	ANATOXIN-A 1X	1.588 Abs	5.200 ng/mL	LOW	10.000 - 500.000	E04
AB22604	ANATOXIN-A 1X	1.773 Abs [1.6690] {5.7 C	1.150 ng/mL [2.995] {61.7 CV}	Low [Low]	10.000 - 500.000	F04
AB22600	ANATOXIN-A 1X	1.853 Abs	0.336 ng/mL	LOW	10.000 - 500.000	G04
AB22600	ANATOXIN-A 1X	1.691 Abs	2.520 ng/mL	LOW	10.000 - 500.000	H04
AB22600	ANATOXIN-A 1X	1.829 Abs [1.7910] {4.9 C	0.530 ng/mL [0.925] {107.1 CV}	Low [Low]	10.000 - 500.000	A05
AB22604LD	ANATOXIN-A 1X	1.849 Abs	0.365 ng/mL	LOW	10.000 - 500.000	B05
AB22604LD	ANATOXIN-A 1X	1.891 Abs	0.115 ng/mL	LOW	10.000 - 500.000	C05
AB22604LD	ANATOXIN-A 1X	1.635 Abs [1.7917] {7.7 C	3.830 ng/mL [0.915] {144.5 CV}	Low [Low]	10.000 - 500.000	D05
20150722LB	ANATOXIN-A 1X	1.704 Abs	2.265 ng/mL	LOW	10.000 - 500.000	E05
20150722LB	ANATOXIN-A 1X	1.946 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	F05
20150722LB	ANATOXIN-A 1X	1.889 Abs [1.8463] {6.9 C	0.124 ng/mL [0.387] {126.7 CV}	Low [Low]	10.000 - 500.000	G05

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

7/24/15

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
7/23/2015 2:18:30 PM			
Std1	2.102 Abs	< 0.000 ng/mL	A01
Std1	1.757 Abs	1.370 ng/mL	B01
Std1	1.957 Abs	< 0.000 ng/mL	C01
Std2	1.484 Abs	9.335 ng/mL	D01
Std2	1.404 Abs	13.850 ng/mL	E01
Std3	1.202 Abs	33.700 ng/mL	G01
Std3	1.289 Abs	23.265 ng/mL	H01
Std4	0.844 Abs	157.400 ng/mL	B02
Std4	0.858 Abs	147.400 ng/mL	C02
Std5	0.613 Abs	> 500.000 ng/mL	F02
Std5	0.680 Abs	371.500 ng/mL	G02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.939	0.173	8.94				
Std2	1.444	0.057	3.92	11.593	3.193	27.54	15.93
Std3	1.246	0.062	4.94	28.483	7.379	25.91	-18.62
Std4	0.851	0.010	1.16	152.400	7.071	4.64	21.92
Std5	0.646	0.047	7.33				-100.00

