Anatoxin-A Receptor-Binding Assay Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB20668	Fairfax SRA	5/11/2015	5/12/2015	<10
AB20669	Paynetown SRA	5/11/2015	5/12/2015	<10
AB20670	Starve Hollow SRA	5/11/2015	5/12/2015	<10
AB20671	Deam Lake SRA	5/11/2015	5/12/2015	<10
AB20672	Hardy Lake SRA	5/11/2015	5/12/2015	<10
AB20668LD	Fairfax SRA (Lab Duplicate)	5/11/2015	5/12/2015	<10
20150511LB	Lab Blank	5/11/2015	5/12/2015	<10
AB20673	Raccoon Lake SRA	5/12/2015	5/13/2015	<10
AB20674	Whitewater Memorial SP	5/12/2015	5/13/2015	<10
AB20675	Quakertown SRA	5/12/2015	5/13/2015	<10
AB20676	Mounds SRA	5/12/2015	5/13/2015	<10
AB20666	Whitewater Memorial SP (Field Duplicate)	5/12/2015	5/13/2015	<10
AB20667	Field Blank	5/12/2015	5/13/2015	<10

Assay Calibration Report

Assay Information

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

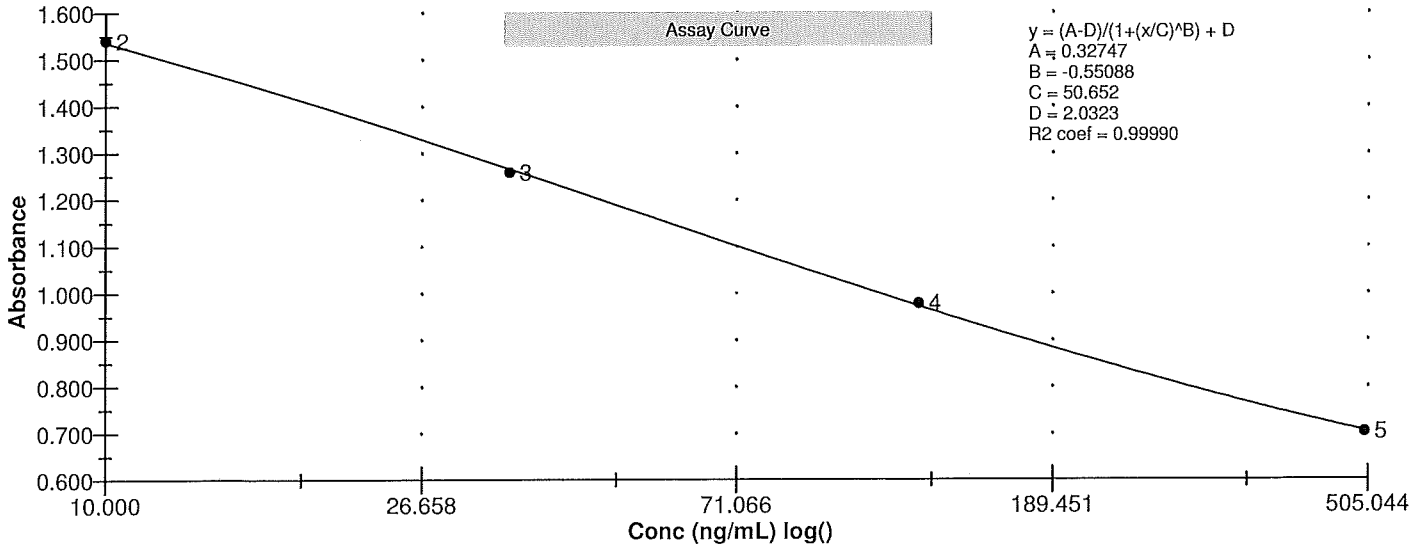
Units: ng/mL
# of decimals: 3
Assay Description:

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
5/12/2015 5:24:56 PM			
Std1	2.013 Abs	0.015 ng/mL	A01
Std1	2.114 Abs	< 0.000 ng/mL	B01
Std1	1.968 Abs	0.142 ng/mL	C01
Std2	1.568 Abs	8.505 ng/mL	D01
Std2	1.476 Abs	13.585 ng/mL	E01
Std2	1.580 Abs	7.970 ng/mL	F01
Std3	1.196 Abs	47.300 ng/mL	G01
Std3	1.220 Abs	42.700 ng/mL	H01
Std3	1.362 Abs	23.050 ng/mL	A02
Std4	0.930 Abs	151.700 ng/mL	B02
Std4	1.002 Abs	109.300 ng/mL	C02
Std4	1.003 Abs	108.850 ng/mL	D02
Std5	0.679 Abs	> 500.000 ng/mL	E02
Std5	0.774 Abs	332.350 ng/mL	F02
Std5	0.652 Abs	> 500.000 ng/mL	G02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.032	0.075	3.68				
Std2	1.541	0.057	3.69	10.020	3.099	30.93	0.20
Std3	1.259	0.090	7.12	37.683	12.880	34.18	7.67
Std4	0.978	0.042	4.28	123.283	24.611	19.96	-1.37
Std5	0.702	0.064	9.13				-100.00



Assay Calibration Report

Assay Information

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

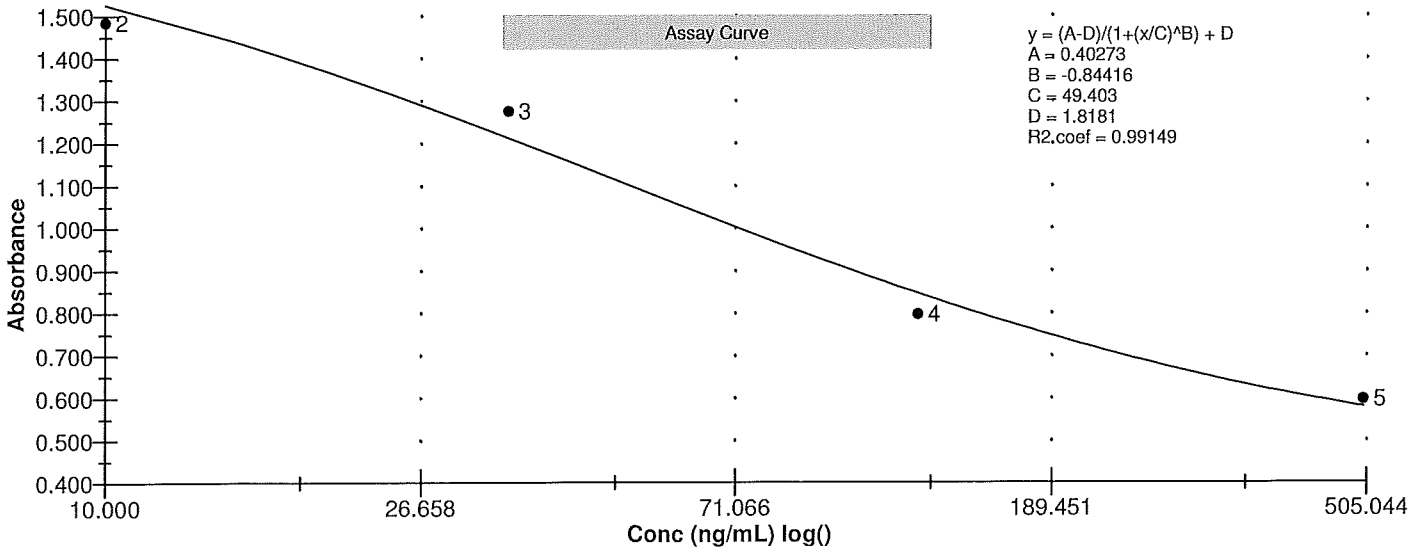
Units: ng/mL
# of decimals: 3
Assay Description:

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
5/13/2015 2:56:23 PM			
Std1	1.955 Abs	< 0.000 ng/mL	A01
Std1	1.728 Abs	2.045 ng/mL	B01
Std1	1.802 Abs	0.250 ng/mL	C01
Std2	1.485 Abs	12.230 ng/mL	E01
Std3	1.312 Abs	24.670 ng/mL	G01
Std3	1.240 Abs	31.850 ng/mL	A02
Std4	0.838 Abs	129.250 ng/mL	B02
Std4	0.783 Abs	161.800 ng/mL	C02
Std4	0.769 Abs	171.900 ng/mL	D02
Std5	0.579 Abs	497.500 ng/mL	E02
Std5	0.598 Abs	433.000 ng/mL	F02
Std5	0.610 Abs	398.500 ng/mL	G02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	1.828	0.116	6.33				
Std2	1.485			12.230			22.30
Std3	1.276	0.051	3.99	28.260	5.077	17.97	-19.26
Std4	0.797	0.036	4.58	154.317	22.288	14.44	23.45
Std5	0.596	0.016	2.62	443.000	50.252	11.34	-11.40



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Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
			5/12/2015 5:24:56 PM			
Std1	ANATOXIN-A 1X	2.013 Abs	0.015 ng/mL		0.000	A01
Std1	ANATOXIN-A 1X	2.114 Abs	< 0.000 ng/mL		0.000	B01
Std1	ANATOXIN-A 1X	1.968 Abs	0.142 ng/mL		0.000	C01
Std2	ANATOXIN-A 1X	1.568 Abs	8.505 ng/mL		10.000	D01
Std2	ANATOXIN-A 1X	1.476 Abs	13.585 ng/mL		10.000	E01
Std2	ANATOXIN-A 1X	1.580 Abs	7.970 ng/mL		10.000	F01
Std3	ANATOXIN-A 1X	1.196 Abs	47.300 ng/mL		35.000	G01
Std3	ANATOXIN-A 1X	1.220 Abs	42.700 ng/mL		35.000	H01
Std3	ANATOXIN-A 1X	1.362 Abs	23.050 ng/mL		35.000	A02
Std4	ANATOXIN-A 1X	0.930 Abs	151.700 ng/mL		125.000	B02
Std4	ANATOXIN-A 1X	1.002 Abs	109.300 ng/mL		125.000	C02
Std4	ANATOXIN-A 1X	1.003 Abs	108.850 ng/mL		125.000	D02
Std5	ANATOXIN-A 1X	0.679 Abs	> 500.000 ng/mL		500.000	E02
Std5	ANATOXIN-A 1X	0.774 Abs	332.350 ng/mL		500.000	F02
Std5	ANATOXIN-A 1X	0.652 Abs	> 500.000 ng/mL		500.000	G02
AB20668	ANATOXIN-A 1X	2.074 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	H02
AB20668	ANATOXIN-A 1X	2.117 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	A03
AB20668	ANATOXIN-A 1X	1.893 Abs [2.0280] {5.9 C	0.628 ng/mL [0.001] {15.5 CV}	Low [Low]	10.000 - 500.000	B03
AB20669	ANATOXIN-A 1X	1.858 Abs	0.983 ng/mL	LOW	10.000 - 500.000	C03
AB20669	ANATOXIN-A 1X	1.705 Abs	3.730 ng/mL	LOW	10.000 - 500.000	D03
AB20669	ANATOXIN-A 1X	1.671 Abs [1.7447] {5.7 C	4.670 ng/mL [2.800] {61.3 CV}	Low [Low]	10.000 - 500.000	E03
AB20670	ANATOXIN-A 1X	1.839 Abs	1.213 ng/mL	LOW	10.000 - 500.000	F03
AB20670	ANATOXIN-A 1X	1.663 Abs	4.910 ng/mL	LOW	10.000 - 500.000	G03
AB20670	ANATOXIN-A 1X	1.714 Abs [1.7387] {5.2 C	3.505 ng/mL [2.930] {58.1 CV}	Low [Low]	10.000 - 500.000	H03
AB20671	ANATOXIN-A 1X	1.987 Abs	0.074 ng/mL	LOW	10.000 - 500.000	A04
AB20671	ANATOXIN-A 1X	1.728 Abs	3.170 ng/mL	LOW	10.000 - 500.000	B04
AB20671	ANATOXIN-A 1X	1.952 Abs [1.8890] {7.4 C	0.216 ng/mL [0.664] {151.6 CV	Low [Low]	10.000 - 500.000	C04
AB20672	ANATOXIN-A 1X	1.529 Abs	10.435 ng/mL		10.000 - 500.000	D04
AB20672	ANATOXIN-A 1X	1.708 Abs	3.655 ng/mL	LOW	10.000 - 500.000	E04
AB20672	ANATOXIN-A 1X	1.758 Abs [1.6650] {7.2 C	2.529 ng/mL [4.850] {77.2 CV}	Low [Low]	10.000 - 500.000	F04
AB20668LD	ANATOXIN-A 1X	1.653 Abs	5.225 ng/mL	LOW	10.000 - 500.000	G04
AB20668LD	ANATOXIN-A 1X	1.651 Abs	5.290 ng/mL	LOW	10.000 - 500.000	H04
AB20668LD	ANATOXIN-A 1X	1.798 Abs [1.7007] {5.0 C	1.805 ng/mL [3.840] {48.5 CV}	Low [Low]	10.000 - 500.000	A05
20150511LB	ANATOXIN-A 1X	1.856 Abs	1.005 ng/mL	LOW	10.000 - 500.000	B05
20150511LB	ANATOXIN-A 1X	1.831 Abs	1.318 ng/mL	LOW	10.000 - 500.000	C05
20150511LB	ANATOXIN-A 1X	1.829 Abs [1.8387] {0.8 C	1.345 ng/mL [1.215] {15.5 CV}	Low [Low]	10.000 - 500.000	D05

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

May 14, 2015
Date

IDEM

Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
5/13/2015 2:56:23 PM						
Std1	ANATOXIN-A 1X	1.955 Abs	< 0.000 ng/mL		0.000	A01
Std1	ANATOXIN-A 1X	1.728 Abs	1.184 ng/mL		0.000	B01
Std1	ANATOXIN-A 1X	1.802 Abs	0.099 ng/mL		0.000	C01
Std2	ANATOXIN-A 1X	1.485 Abs	9.815 ng/mL		10.000	E01
Std3	ANATOXIN-A 1X	1.312 Abs	22.220 ng/mL		35.000	G01
Std3	ANATOXIN-A 1X	1.240 Abs	29.800 ng/mL		35.000	A02
Std4	ANATOXIN-A 1X	0.838 Abs	138.800 ng/mL		125.000	B02
Std4	ANATOXIN-A 1X	0.783 Abs	174.650 ng/mL		125.000	C02
Std4	ANATOXIN-A 1X	0.769 Abs	185.500 ng/mL		125.000	D02
Std5	ANATOXIN-A 1X	0.579 Abs	487.500 ng/mL		500.000	E02
Std5	ANATOXIN-A 1X	0.598 Abs	435.000 ng/mL		500.000	F02
Std5	ANATOXIN-A 1X	0.610 Abs	406.000 ng/mL		500.000	G02
AB20673	ANATOXIN-A 1X	1.889 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	H02
AB20673	ANATOXIN-A 1X	1.869 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	A03
AB20673	ANATOXIN-A 1X	1.974 Abs [1.9107] {2.9 C	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	10.000 - 500.000	B03
AB20674	ANATOXIN-A 1X	2.035 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	C03
AB20674	ANATOXIN-A 1X	2.054 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	D03
AB20674	ANATOXIN-A 1X	2.317 Abs [2.1353] {7.4 C	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	10.000 - 500.000	E03
AB20675	ANATOXIN-A 1X	2.103 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	F03
AB20675	ANATOXIN-A 1X	1.901 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	G03
AB20675	ANATOXIN-A 1X	1.935 Abs [1.9797] {5.5 C	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	10.000 - 500.000	H03
AB20676	ANATOXIN-A 1X	2.201 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	A04
AB20676	ANATOXIN-A 1X	2.029 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	B04
AB20676	ANATOXIN-A 1X	1.891 Abs [2.0403] {7.6 C	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	10.000 - 500.000	C04
AB20666	ANATOXIN-A 1X	1.863 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	D04
AB20666	ANATOXIN-A 1X	1.948 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	E04
AB20666	ANATOXIN-A 1X	1.886 Abs [1.8990] {2.3 C	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	10.000 - 500.000	F04
AB20667	ANATOXIN-A 1X	1.892 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	G04
AB20667	ANATOXIN-A 1X	1.907 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	H04
AB20667	ANATOXIN-A 1X	1.909 Abs [1.9027] {0.5 C	< 0.000 ng/mL [< 0.000]	Out(LR) [Out(LR)]	10.000 - 500.000	A05

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

5/14/2015

Date