



Anatoxin-A Receptor-Binding Assay Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB22128	Field Blank	6/22/2015	6/24/2015	<10
AB22129	Raccoon Lake SRA	6/22/2015	6/24/2015	<10
AB22127	Raccoon Lake (Field Duplicate)	6/22/2015	6/24/2015	<10
AB22130	Mounds SRA	6/22/2015	6/24/2015	<10
20150622LB	Lab Blank	6/22/2015	6/24/2015	<10
AB22130LD	Mounds SRA (Lab Duplicate)	6/22/2015	6/24/2015	<10



Test Report

Test Information

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference	Position
6/24/2015 1:42:49 PM						
Std1	ANATOXIN-A 1X	2.737 Abs	< 0.000 ng/mL		0.000	A01
Std1	ANATOXIN-A 1X	2.488 Abs	0.005 ng/mL		0.000	B01
Std1	ANATOXIN-A 1X	2.303 Abs	0.623 ng/mL		0.000	C01
Std2	ANATOXIN-A 1X	1.879 Abs	8.735 ng/mL		10.000	D01
Std2	ANATOXIN-A 1X	1.839 Abs	10.315 ng/mL		10.000	E01
Std2	ANATOXIN-A 1X	1.779 Abs	13.085 ng/mL		10.000	F01
Std3	ANATOXIN-A 1X	1.495 Abs	35.800 ng/mL		35.000	G01
Std3	ANATOXIN-A 1X	1.609 Abs	24.320 ng/mL		35.000	H01
Std3	ANATOXIN-A 1X	1.489 Abs	36.500 ng/mL		35.000	A02
Std4	ANATOXIN-A 1X	1.116 Abs	121.900 ng/mL		125.000	B02
Std4	ANATOXIN-A 1X	1.086 Abs	134.400 ng/mL		125.000	C02
Std4	ANATOXIN-A 1X	1.055 Abs	148.850 ng/mL		125.000	D02
Std5	ANATOXIN-A 1X	0.696 Abs	> 500.000 ng/mL		500.000	E02
Std5	ANATOXIN-A 1X	0.708 Abs	> 500.000 ng/mL		500.000	F02
Std5	ANATOXIN-A 1X	0.761 Abs	418.950 ng/mL		500.000	G02
AB22128	ANATOXIN-A 1X	2.388 Abs	0.199 ng/mL	LOW	10.000 - 500.000	H02
AB22128	ANATOXIN-A 1X	2.621 Abs	< 0.000 ng/mL	Out(LR)	10.000 - 500.000	A03
AB22128	ANATOXIN-A 1X	2.524 Abs [2.5110] {4.7 CV}	< 0.000 ng/mL [< 0.000] {31.5 CV}	Out(LR) [Out(LR)]	10.000 - 500.000	B03
AB22129	ANATOXIN-A 1X	2.386 Abs	0.206 ng/mL	LOW	10.000 - 500.000	C03
AB22129	ANATOXIN-A 1X	2.487 Abs	0.006 ng/mL	LOW	10.000 - 500.000	D03
AB22129	ANATOXIN-A 1X	2.381 Abs [2.4180] {2.5 CV}	0.225 ng/mL [0.109] {83.3 CV}	Low [Low]	10.000 - 500.000	E03
AB22127	ANATOXIN-A 1X	2.379 Abs	0.231 ng/mL	LOW	10.000 - 500.000	F03
AB22127	ANATOXIN-A 1X	2.391 Abs	0.189 ng/mL	LOW	10.000 - 500.000	G03
AB22127	ANATOXIN-A 1X	2.513 Abs [2.4277] {3.1 CV}	< 0.000 ng/mL [0.086] {14.1 CV}	Out(LR) [Low]	10.000 - 500.000	H03
AB22130	ANATOXIN-A 1X	2.224 Abs	1.278 ng/mL	LOW	10.000 - 500.000	A04
AB22130	ANATOXIN-A 1X	2.308 Abs	0.590 ng/mL	LOW	10.000 - 500.000	B04
AB22130	ANATOXIN-A 1X	2.083 Abs [2.2050] {5.2 CV}	3.255 ng/mL [1.480] {81.0 CV}	Low [Low]	10.000 - 500.000	C04
20150622LB	ANATOXIN-A 1X	2.058 Abs	3.735 ng/mL	LOW	10.000 - 500.000	D04
20150622LB	ANATOXIN-A 1X	2.222 Abs	1.299 ng/mL	LOW	10.000 - 500.000	E04
20150622LB	ANATOXIN-A 1X	2.083 Abs [2.1210] {4.2 CV}	3.255 ng/mL [2.605] {46.7 CV}	Low [Low]	10.000 - 500.000	F04
AB22130LD	ANATOXIN-A 1X	2.243 Abs	1.095 ng/mL	LOW	10.000 - 500.000	G04
AB22130LD	ANATOXIN-A 1X	2.216 Abs	1.360 ng/mL	LOW	10.000 - 500.000	H04
AB22130LD	ANATOXIN-A 1X	2.162 Abs [2.2070] {1.9 CV}	2.005 ng/mL [1.458] {31.5 CV}	Low [Low]	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

6/23/2015

Date



Assay Calibration Report

Assay Information

Assay Name: ANATOXIN-A 1X Units: ng/mL
 Assay Mode: 4-Parameter Logistic # of decimals: 3
 Normal: 10.000 - 500.000 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
6/24/2015 1:42:49 PM			
Std1	2.737 Abs	< 0.000 ng/mL	A01
Std1	2.488 Abs	0.005 ng/mL	B01
Std1	2.303 Abs	0.623 ng/mL	C01
Std2	1.879 Abs	8.735 ng/mL	D01
Std2	1.839 Abs	10.315 ng/mL	E01
Std2	1.779 Abs	13.085 ng/mL	F01
Std3	1.495 Abs	35.800 ng/mL	G01
Std3	1.609 Abs	24.320 ng/mL	H01
Std3	1.489 Abs	36.500 ng/mL	A02
Std4	1.116 Abs	121.900 ng/mL	B02
Std4	1.086 Abs	134.400 ng/mL	C02
Std4	1.055 Abs	148.850 ng/mL	D02
Std5	0.696 Abs	> 500.000 ng/mL	E02
Std5	0.708 Abs	> 500.000 ng/mL	F02
Std5	0.761 Abs	418.950 ng/mL	G02

Name	Mean Abs	SD Abs	CV Abs	Mean Conc	SD Conc	CV Conc	Diff Conc
Std1	2.509	0.218	8.68				
Std2	1.832	0.050	2.75	10.712	2.202	20.56	7.12
Std3	1.531	0.068	4.42	32.207	6.839	21.23	-7.98
Std4	1.086	0.031	2.81	135.050	13.487	9.99	8.04
Std5	0.722	0.035	4.79				-100.00

