



Anatoxin-a ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

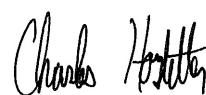
Sample #	Location	Date Collected	Date Analyzed	Conc. (ug/L)	% Recovery
LRB	Lab Reagent Blank	5/29/2019	5/29/2019	< 0.40	
LFB	Lab Fortified Blank (True Value = 0.80)	5/29/2019	5/29/2019	0.71	89
AB38909	Hardy Lake SRA	5/28/2019	5/29/2019	< 0.40	
AB38909LD	Hardy Lake SRA (Lab Duplicate)	5/28/2019	5/29/2019	< 0.40	
AB38907	Field Blank	5/28/2019	5/29/2019	< 0.40	
AB38917	Hardy Lake SRA (Field Duplicate)	5/28/2019	5/29/2019	< 0.40	

Test Information

Request: 5/29/2019 2:40:31 PM
Date: 5/29/2019 - 5/29/2019

Name/ID	Assay	Absorbance	Concentration	Interpretation	Reference
ATX Std 0	ANATOXIN	1.073 Abs	0.000 µg/L	R^2=0.99976	0.000
ATX Std 0	ANATOXIN	1.063 Abs [1.0680] {0.7 CV}	0.001 µg/L [0.001] {141}	R^2=0.99976	0.000
ATX Std 1	ANATOXIN	0.855 Abs	0.129 µg/L	R^2=0.99976	0.150
ATX Std 1	ANATOXIN	0.804 Abs [0.8295] {4.3 CV}	0.177 µg/L [0.153] {22.2}	R^2=0.99976	0.150
ATX Std 2	ANATOXIN	0.645 Abs	0.384 µg/L	R^2=0.99976	0.400
ATX Std 2	ANATOXIN	0.638 Abs [0.6415] {0.8 CV}	0.396 µg/L [0.390] {2.2}	R^2=0.99976	0.400
ATX Std 3	ANATOXIN	0.419 Abs	0.991 µg/L	R^2=0.99976	1.000
ATX Std 3	ANATOXIN	0.399 Abs [0.4090] {3.5 CV}	1.080 µg/L [1.036] {6.1}	R^2=0.99976	1.000
ATX Std 4	ANATOXIN	0.227 Abs	2.481 µg/L	R^2=0.99976	2.500
ATX Std 4	ANATOXIN	0.239 Abs [0.2330] {3.6 CV}	2.321 µg/L [2.401] {4.7}	R^2=0.99976	2.500
ATX Std 5	ANATOXIN	0.124 Abs	4.962 µg/L	R^2=0.99976	5.000
ATX Std 5	ANATOXIN	0.117 Abs [0.1205] {4.1 CV}	> 5.000 µg/L [4.962]		5.000
ATX Control	ANATOXIN	0.479 Abs	0.771 µg/L		0.75 +- 0
ATX Control	ANATOXIN	0.489 Abs [0.4840] {1.5 CV}	0.739 µg/L [0.755] {3.0}		0.75 +- 0
LRB	ANATOXIN	0.971 Abs	0.046 µg/L	LOW	0.150 - 5
LRB	ANATOXIN	0.943 Abs [0.9570] {2.1 CV}	0.063 µg/L [0.054] {22.1}	LOW [LOW]	0.150 - 5
LFB	ANATOXIN	0.504 Abs	0.695 µg/L		0.150 - 5
LFB	ANATOXIN	0.491 Abs [0.4975] {1.8 CV}	0.733 µg/L [0.714] {3.8}		0.150 - 5
AB38907	ANATOXIN	0.961 Abs	0.052 µg/L	LOW	0.150 - 5
AB38907	ANATOXIN	0.977 Abs [0.9690] {1.2 CV}	0.042 µg/L [0.047] {15.0}	LOW [LOW]	0.150 - 5
AB38909	ANATOXIN	0.968 Abs	0.048 µg/L	LOW	0.150 - 5
AB38909	ANATOXIN	0.943 Abs [0.9555] {1.9 CV}	0.063 µg/L [0.056] {19.1}	LOW [LOW]	0.150 - 5
AB38909LD	ANATOXIN	0.944 Abs	0.062 µg/L	LOW	0.150 - 5
AB38909LD	ANATOXIN	0.906 Abs [0.9250] {2.9 CV}	0.089 µg/L [0.075] {25.3}	LOW [LOW]	0.150 - 5
AB38917	ANATOXIN	0.977 Abs	0.042 µg/L	LOW	0.150 - 5
AB38917	ANATOXIN	0.974 Abs [0.9755] {0.2 CV}	0.044 µg/L [0.043] {3.3}	LOW [LOW]	0.150 - 5

Note



Signature



ANATOXIN - Assay Calibration Report

Assay Information

Assay Name: ANATOXIN
Version: 1
Temperature: Room Temperature
Last Modified By: Security disabled
Units: µg/L
Assay Description: PN 520060
Assay Substances: Controls:

ATX Control

Standards:

ATX Std 0, Concentration = 0.000, Minimum number to use: 2

ATX Std 1, Concentration = 0.150, Minimum number to use: 2

ATX Std 2, Concentration = 0.400, Minimum number to use: 2

ATX Std 3, Concentration = 1.000, Minimum number to use: 2

ATX Std 4, Concentration = 2.500, Minimum number to use: 2

ATX Std 5, Concentration = 5.000, Minimum number to use: 2

Curve valid interval: 7 days 0 hours

Axis Mode: Y = Abs, X = Log(Conc)

Assay Mode: 4-Parameter Logistic Weight by:None
Well Type: Flat bottom
Last Modified On: 1/16/2017 8:49:03 AM
Normal: 0.150 - 5.000
of decimals: 3

Assay Calibration

Current Calibration Status: "

"

Name	Absorbance	Concentration	Interpretation	Position
5/29/2019 2:40:31 PM				
ATX Std 0	1.073 Abs	0.000 µg/L	R^2=0.99976	RK1:23->A01@2
ATX Std 0	1.063 Abs [1.0680] {0.7 CV}	0.001 µg/L [0.001] {141.4 CV}	R^2=0.99976	RK1:23->B01@2
ATX Std 1	0.855 Abs	0.129 µg/L	R^2=0.99976	RK1:24->C01@2
ATX Std 1	0.804 Abs [0.8295] {4.3 CV}	0.177 µg/L [0.153] {22.2 CV}	R^2=0.99976	RK1:24->D01@2
ATX Std 2	0.645 Abs	0.384 µg/L	R^2=0.99976	RK1:25->E01@2
ATX Std 2	0.638 Abs [0.6415] {0.8 CV}	0.396 µg/L [0.390] {2.2 CV}	R^2=0.99976	RK1:25->F01@3
ATX Std 3	0.419 Abs	0.991 µg/L	R^2=0.99976	RK1:26->G01@3
ATX Std 3	0.399 Abs [0.4090] {3.5 CV}	1.080 µg/L [1.036] {6.1 CV}	R^2=0.99976	RK1:26->H01@3
ATX Std 4	0.227 Abs	2.481 µg/L	R^2=0.99976	RK1:27->A02@2
ATX Std 4	0.239 Abs [0.2330] {3.6 CV}	2.321 µg/L [2.401] {4.7 CV}	R^2=0.99976	RK1:27->B02@2
ATX Std 5	0.124 Abs	4.962 µg/L	R^2=0.99976	RK1:28->C02@2
ATX Std 5	0.117 Abs [0.1205] {4.1 CV}	> 5.000 µg/L [4.962]		RK1:28->D02@2

5/29/2019 2:40:31 PM				
ATX Control	0.479 Abs	0.771 µg/L		RK1:29->E02@2
ATX Control	0.489 Abs [0.4840] {1.5 CV}	0.739 µg/L [0.755] {3.0 CV}		RK1:29->F02@3

Statistic				
ATX Std 0 [MEAN]	1.0680	0.0005		
ATX Std 0 [SD]	0.0071	0.0007		
ATX Std 0 [%CV]	0.6621	141.4214		
ATX Std 1 [MEAN]	0.8295	0.1530		
ATX Std 1 [SD]	0.0361	0.0339		
ATX Std 1 [%CV]	4.3475	22.1837		
ATX Std 1 [%DIFF]		2.0000		
ATX Std 2 [MEAN]	0.6415	0.3900		
ATX Std 2 [SD]	0.0049	0.0085		
ATX Std 2 [%CV]	0.7716	2.1757		
ATX Std 2 [%DIFF]		-2.5000		
ATX Std 3 [MEAN]	0.4090	1.0355		
ATX Std 3 [SD]	0.0141	0.0629		
ATX Std 3 [%CV]	3.4577	6.0775		
ATX Std 3 [%DIFF]		3.5500		
ATX Std 4 [MEAN]	0.2330	2.4010		
ATX Std 4 [SD]	0.0085	0.1131		
ATX Std 4 [%CV]	3.6417	4.7121		
ATX Std 4 [%DIFF]		-3.9600		
ATX Std 5 [MEAN]	0.1205			
ATX Std 5 [SD]	0.0049			
ATX Std 5 [%CV]	4.1077			

Name	Absorbance	Concentration	Interpretation	Position	
ATX Control [MEAN]	0.4840	0.7550			
ATX Control [SD]	0.0071	0.0226			
ATX Control [%CV]	1.4610	2.9970			
ATX Control [%DIFF]		0.6667			

Assay Curve

$y = (A-D)/(1+(x/C)^B) + D$
Weight: NONE
A = 1.0678
B = 0.87804
C = 0.66253
D = -0.036266
R2 coef = 0.99976

