Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB51886	Mississinewa Lake Miami SRA	7/5/2022	7/6/2022	3.35
AB51887	Potato Creek State Park	7/5/2022	7/6/2022	< 0.30
AB51888	Lost Bridge West SRA	7/5/2022	7/6/2022	0.58
AB51884	Potato Creek State Park (Field Dup)	7/5/2022	7/6/2022	< 0.30
AB51885	Field Blank	7/5/2022	7/6/2022	< 0.30

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Test Report (by Request)

Test Information

Request: 7/6/2022 3:03:38 PM
Date: 7/6/2022

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
MCT Std 0	MICROCYSTINS ADDA 54	1.284 Abs	0.016 µg/L	R^2=0.99659, 99.45			M22B127(
MCT Std 0	MICROCYSTINS ADDA 54	1.298 Abs [1.2910] {0.8 C	0.001 µg/L [0.009]	R^2=0.99659, 100.5			M22B127(
MCT Std 1	MICROCYSTINS ADDA 54	1.114 Abs	0.131 µg/L	R^2=0.99659, 86.29			M22B127(
MCT Std 1	MICROCYSTINS ADDA 54	1.100 Abs [1.1070] {0.9 C	0.141 µg/L [0.136]	R^2=0.99659, 85.20			M22B127(
MCT Std 2	MICROCYSTINS ADDA 54	0.780 Abs	0.426 µg/L	R^2=0.99659, 60.41			M22B127(
MCT Std 2	MICROCYSTINS ADDA 54	0.778 Abs [0.7790] {0.2 C	0.429 µg/L [0.428]	R^2=0.99659, 60.26			M22B127(
MCT Std 3	MICROCYSTINS ADDA 54	0.511 Abs	1.020 µg/L	R^2=0.99659, 39.58			M22B127(
MCT Std 3	MICROCYSTINS ADDA 54	0.515 Abs [0.5130] {0.6 C	1.004 µg/L [1.012]	R^2=0.99659, 39.89			M22B127(
MCT Std 4	MICROCYSTINS ADDA 54	0.416 Abs	1.586 µg/L	R^2=0.99659, 32.22			M22B127(
MCT Std 4	MICROCYSTINS ADDA 54	0.411 Abs [0.4135] {0.9 C	1.631 µg/L [1.609]	R^2=0.99659, 31.83			M22B127(
MCT Std 5	MICROCYSTINS ADDA 54	0.280 Abs	> 5.000 µg/L	21.689 %Abs			M22B127(
MCT Std 5	MICROCYSTINS ADDA 54	0.263 Abs [0.2715] {4.4 C	> 5.000 µg/L	20.372 %Abs			M22B127(
MCT 546 LRB 1	MICROCYSTINS ADDA 54	1.244 Abs	0.046 µg/L	96.359 %Abs			M22B127(
MCT 546 LRB 1	MICROCYSTINS ADDA 54	1.244 Abs [1.2440] {0.0 C	0.046 µg/L [0.046]	96.359 %Abs [96.3			M22B127(
MCT 546 Low-CV	MICROCYSTINS ADDA 54	0.836 Abs	0.361 µg/L	64.756 %Abs			M22B127(
MCT 546 Low-CV	MICROCYSTINS ADDA 54	0.828 Abs [0.8320] {0.7 C	0.370 µg/L [0.366]	64.136 %Abs [64.4			M22B127(
MCT 546 LFB 1	MICROCYSTINS ADDA 54	0.729 Abs	0.496 µg/L	56.468 %Abs			M22B127(
MCT 546 LFB 1	MICROCYSTINS ADDA 54	0.710 Abs [0.7195] {1.9 C	0.525 µg/L [0.510]	54.996 %Abs [55.7			M22B127(

Note

Signature David Jordan

David Jordan 7/7/2021

* A - Abs > 3; IA - Initial Abs; DA - Delta Abs; SD - SD of Abs; LR - Linear Range; [...] - Mean result of duplicate tests
* Generated by software version (6.4.1.1139/1085/1.00/0.95) 7/7/2022 7:55:15 AM

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Test Report (by Request)

Test Information

Request: 7/6/2022 3:04:10 PM
Date: 7/6/2022

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
AB51886	MICROCYSTINS ADDA 54	0.321 Abs	3.351 µg/L	24.864 %Abs		0.300 - 5.000	M22B127(
AB51886	MICROCYSTINS ADDA 54	0.321 Abs [0.3210] {0.0 C	3.351 µg/L [3.351]	24.864 %Abs [24.8		0.300 - 5.000	M22B127(
AB51886MS	MICROCYSTINS ADDA 54	0.292 Abs	> 5.000 µg/L	22.618 %Abs, Out(l		0.300 - 5.000	M22B127(
AB51886MS	MICROCYSTINS ADDA 54	0.271 Abs [0.2815] {5.3 C	> 5.000 µg/L	20.991 %Abs, Out(l		0.300 - 5.000	M22B127(
AB51886MSD	MICROCYSTINS ADDA 54	0.267 Abs	> 5.000 µg/L	20.682 %Abs, Out(l		0.300 - 5.000	M22B127(
AB51886MSD	MICROCYSTINS ADDA 54	0.271 Abs [0.2690] {1.1 C	> 5.000 µg/L	20.991 %Abs, Out(l		0.300 - 5.000	M22B127(
AB51887	MICROCYSTINS ADDA 54	1.179 Abs	0.089 µg/L	Low, 91.325 %Abs		0.300 - 5.000	M22B127(
AB51887	MICROCYSTINS ADDA 54	1.195 Abs [1.1870] {1.0 C	0.078 µg/L [0.083]	Low, 92.564 %Abs		0.300 - 5.000	M22B127(
AB51888	MICROCYSTINS ADDA 54	0.695 Abs	0.549 µg/L	53.834 %Abs		0.300 - 5.000	M22B127(
AB51888	MICROCYSTINS ADDA 54	0.666 Abs [0.6805] {3.0 C	0.600 µg/L [0.575]	51.588 %Abs [52.7		0.300 - 5.000	M22B127(
AB51884	MICROCYSTINS ADDA 54	1.151 Abs	0.107 µg/L	Low, 89.156 %Abs		0.300 - 5.000	M22B127(
AB51884	MICROCYSTINS ADDA 54	1.111 Abs [1.1310] {2.5 C	0.133 µg/L [0.120]	Low, 86.057 %Abs		0.300 - 5.000	M22B127(
AB51885	MICROCYSTINS ADDA 54	1.169 Abs	0.095 µg/L	Low, 90.550 %Abs		0.300 - 5.000	M22B127(
AB51885	MICROCYSTINS ADDA 54	1.167 Abs [1.1680] {0.1 C	0.097 µg/L [0.096]	Low, 90.395 %Abs		0.300 - 5.000	M22B127(
LFB 2	MICROCYSTINS ADDA 54	0.717 Abs	0.514 µg/L	55.538 %Abs		0.300 - 5.000	M22B127(
LFB 2	MICROCYSTINS ADDA 54	0.695 Abs [0.7060] {2.2 C	0.549 µg/L [0.531]	53.834 %Abs [54.6		0.300 - 5.000	M22B127(
LRB 2	MICROCYSTINS ADDA 54	1.236 Abs	0.051 µg/L	Low, 95.740 %Abs		0.300 - 5.000	M22B127(
LRB 2	MICROCYSTINS ADDA 54	1.208 Abs [1.2220] {1.6 C	0.070 µg/L [0.060]	Low, 93.571 %Abs		0.300 - 5.000	M22B127(

Note

Signature David Jordan

David Jordan 7/7/2021

* A - Abs > 3; IA - Initial Abs; DA - Delta Abs; SD - SD of Abs; LR - Linear Range; [...] - Mean result of duplicate tests
* Generated by software version (6.4.1.1139/1085/1.00/0.95) 7/7/2022 7:55:15 AM

MICROCYSTINS ADDA 546_ - Assay Calibration Report

Assay Information

Assay Name: MICROCYSTINS ADDA 546_
Version: 2
Temperature: Room Temperature
Last Modified By: Security disabled
Units: µg/L
Assay Description:
Assay Substances: Controls:
MCT 546 LRB 1
MCT 546 Low-CV
MCT 546 LFB 1
Standards:
MCT Std 0, Concentration = 0.000, Minimum number to use: 2
MCT Std 1, Concentration = 0.150, Minimum number to use: 2
MCT Std 2, Concentration = 0.400, Minimum number to use: 2
MCT Std 3, Concentration = 1.000, Minimum number to use: 2
MCT Std 4, Concentration = 2.000, Minimum number to use: 2
MCT Std 5, Concentration = 5.000, Minimum number to use: 2
Curve valid interval: 1 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: 9/30/2020 10:02:13 AM
Normal: 0.300 - 5.000
# of decimals: 3
Kit Lot Number: M22B1270

Assay Calibration

Current Calibration Status: " **"**

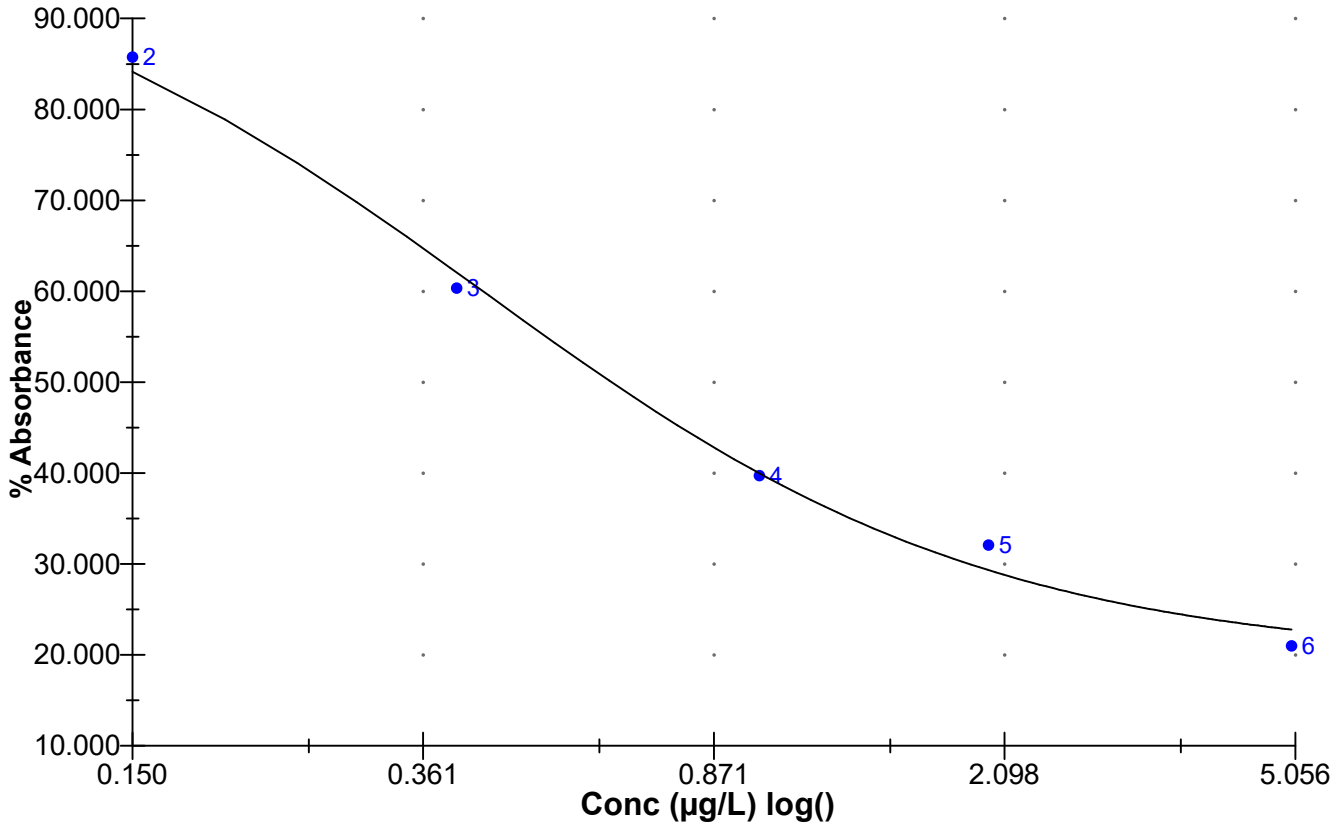
Name	Absorbance	Concentration	Interpretation	Position
7/6/2022 3:03:38 PM				
MCT Std 0	1.284 Abs	0.016 µg/L	R^2=0.99659, 99.458 %Abs	RK1:23->A01@2
MCT Std 0	1.298 Abs [1.2910] {0.8 CV}	0.001 µg/L [0.009] {124.8 C\	R^2=0.99659, 100.542 %Abs	RK1:23->B01@2
MCT Std 1	1.114 Abs	0.131 µg/L	R^2=0.99659, 86.290 %Abs	RK1:24->C01@2
MCT Std 1	1.100 Abs [1.1070] {0.9 CV}	0.141 µg/L [0.136] {5.2 CV}	R^2=0.99659, 85.205 %Abs	RK1:24->D01@2
MCT Std 2	0.780 Abs	0.426 µg/L	R^2=0.99659, 60.418 %Abs	RK1:25->E01@2
MCT Std 2	0.778 Abs [0.7790] {0.2 CV}	0.429 µg/L [0.428] {0.5 CV}	R^2=0.99659, 60.263 %Abs	RK1:25->F01@3
MCT Std 3	0.511 Abs	1.020 µg/L	R^2=0.99659, 39.582 %Abs	RK1:26->G01@3
MCT Std 3	0.515 Abs [0.5130] {0.6 CV}	1.004 µg/L [1.012] {1.1 CV}	R^2=0.99659, 39.892 %Abs	RK1:26->H01@3
MCT Std 4	0.416 Abs	1.586 µg/L	R^2=0.99659, 32.223 %Abs	RK1:27->A02@2
MCT Std 4	0.411 Abs [0.4135] {0.9 CV}	1.631 µg/L [1.609] {2.0 CV}	R^2=0.99659, 31.836 %Abs	RK1:27->B02@2
MCT Std 5	0.280 Abs	> 5.000 µg/L	21.689 %Abs	RK1:28->C02@2
MCT Std 5	0.263 Abs [0.2715] {4.4 CV}	> 5.000 µg/L	20.372 %Abs	RK1:28->D02@2
++++++++++++++++++++++++++++++++++	++++++++++++++++++++++++	++++++++++++++++++++++++	++++++++++++++++++++++++	++++++++++++++++++++++++
7/6/2022 3:03:38 PM				
MCT 546 LRB 1	1.244 Abs	0.046 µg/L	96.359 %Abs	RK1:29->E02@2
MCT 546 LRB 1	1.244 Abs [1.2440] {0.0 CV}	0.046 µg/L [0.046] {0.0 CV}	96.359 %Abs [96.359 %Abs]	RK1:29->F02@3
MCT 546 Low-CV	0.836 Abs	0.361 µg/L	64.756 %Abs	RK1:30->G02@3
MCT 546 Low-CV	0.828 Abs [0.8320] {0.7 CV}	0.370 µg/L [0.366] {1.7 CV}	64.136 %Abs [64.446 %Abs]	RK1:30->H02@3
MCT 546 LFB 1	0.729 Abs	0.496 µg/L	56.468 %Abs	RK1:31->A03@2
MCT 546 LFB 1	0.710 Abs [0.7195] {1.9 CV}	0.525 µg/L [0.510] {4.0 CV}	54.996 %Abs [55.732 %Abs]	RK1:31->B03@2
**********	**********	**********	**********	**********
Statistic				
MCT Std 0 [MEAN]	1.2910	0.0085		
MCT Std 0 [SD]	0.0099	0.0106		
MCT Std 0 [%CV]	0.7668	124.7835		
MCT Std 1 [MEAN]	1.1070	0.1360		
MCT Std 1 [SD]	0.0099	0.0071		
MCT Std 1 [%CV]	0.8943	5.1993		
MCT Std 1 [%DIFF]		-9.3333		
MCT Std 2 [MEAN]	0.7790	0.4275		
MCT Std 2 [SD]	0.0014	0.0021		
MCT Std 2 [%CV]	0.1815	0.4962		
MCT Std 2 [%DIFF]		6.8750		
MCT Std 3 [MEAN]	0.5130	1.0120		
MCT Std 3 [SD]	0.0028	0.0113		
MCT Std 3 [%CV]	0.5514	1.1180		
MCT Std 3 [%DIFF]		1.2000		
MCT Std 4 [MEAN]	0.4135	1.6085		

MICROCYSTINS ADDA 546_ - Assay Calibration Report

Name	Absorbance	Concentration	Interpretation	Position
MCT Std 4 [SD]	0.0035	0.0318		
MCT Std 4 [%CV]	0.8550	1.9782		
MCT Std 4 [%DIFF]		-19.5750		
MCT Std 5 [MEAN]	0.2715			
MCT Std 5 [SD]	0.0120			
MCT Std 5 [%CV]	4.4276			
MCT 546 LRB 1 [MEAN]	1.2440	0.0460		
MCT 546 LRB 1 [SD]	0.0000	0.0000		
MCT 546 LRB 1 [%CV]	0.0000	0.0000		
MCT 546 Low-CV [MEAN]	0.8320	0.3655		
MCT 546 Low-CV [SD]	0.0057	0.0064		
MCT 546 Low-CV [%CV]	0.6799	1.7412		
MCT 546 LFB 1 [MEAN]	0.7195	0.5105		
MCT 546 LFB 1 [SD]	0.0134	0.0205		
MCT 546 LFB 1 [%CV]	1.8673	4.0169		

Assay Curve

y = (A-D)/(1+(x/C)^B) + D
Weight: NONE
A = 1.2982
B = 1.2955
C = 0.43233
D = 0.25215
R2 coef = 0.99659
50% = 0.639



*Generated by software version (6.4.1.1139/1085/1.00/0.95) 7/7/2022 7:54:29 AM