



Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

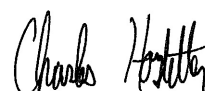
Sample #	Location	Date Collected	Date Analyzed	Conc. (ppb)
AB52432	Summit Lake State Park	8/16/2022	8/17/2022	< 0.30
AB52433	Kunkel Lake @ Oubache SP	8/15/2022	8/17/2022	< 0.30
AB52434	Pokagon State Park	8/15/2022	8/17/2022	< 0.30
AB52435	Potawatomi Inn's Beach	8/15/2022	8/17/2022	< 0.30
AB52436	Chain O'Lakes SP	8/15/2022	8/17/2022	< 0.30
AB52437	Potato Creek State Park	8/16/2022	8/17/2022	< 0.30
AB52438	Lost Bridge West SRA	8/16/2022	8/17/2022	< 0.30
AB52439	Mississinewa Lake Miami SRA	8/16/2022	8/17/2022	< 0.30
AB52440	Kunkel Lake @ Oubache SP (Field Dup)	8/15/2022	8/17/2022	< 0.30
AB52441	Field Blank	8/15/2022	8/17/2022	< 0.30
AB52442	Lincoln State Park	8/15/2022	8/17/2022	< 0.30
AB52443	Ferdinand State Forest Lake	8/15/2022	8/17/2022	< 0.30
AB52444	Patoka SRA Beach	8/15/2022	8/17/2022	< 0.30
AB52560	Ft. Ben Harrison SP Dog Lake	8/16/2022	8/17/2022	< 0.30

Test Information

Request: 8/17/2022 7:25:48 PM
Date: 8/17/2022 - 8/18/2022

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
MCT Std 0	MICROCYSTINS ADDA 54	1.267 Abs	0.010 µg/L	R ² =0.99685, 99.52			M22B127(
MCT Std 0	MICROCYSTINS ADDA 54	1.278 Abs [1.2725] {0.6 C	0.001 µg/L [0.006]	R ² =0.99685, 100.3			M22B127(
MCT Std 1	MICROCYSTINS ADDA 54	1.072 Abs	0.130 µg/L	R ² =0.99685, 84.21			M22B127(
MCT Std 1	MICROCYSTINS ADDA 54	1.054 Abs [1.0630] {1.2 C	0.142 µg/L [0.136]	R ² =0.99685, 82.79			M22B127(
MCT Std 2	MICROCYSTINS ADDA 54	0.768 Abs	0.411 µg/L	R ² =0.99685, 60.33			M22B127(
MCT Std 2	MICROCYSTINS ADDA 54	0.734 Abs [0.7510] {3.2 C	0.459 µg/L [0.435]	R ² =0.99685, 57.65			M22B127(
MCT Std 3	MICROCYSTINS ADDA 54	0.512 Abs	1.004 µg/L	R ² =0.99685, 40.22			M22B127(
MCT Std 3	MICROCYSTINS ADDA 54	0.514 Abs [0.5130] {0.3 C	0.995 µg/L [0.999]	R ² =0.99685, 40.37			M22B127(
MCT Std 4	MICROCYSTINS ADDA 54	0.415 Abs	1.583 µg/L	R ² =0.99685, 32.60			M22B127(
MCT Std 4	MICROCYSTINS ADDA 54	0.400 Abs [0.4075] {2.6 C	1.725 µg/L [1.654]	R ² =0.99685, 31.42			M22B127(
MCT Std 5	MICROCYSTINS ADDA 54	0.258 Abs	> 5.000 µg/L	20.267 %Abs			M22B127(
MCT Std 5	MICROCYSTINS ADDA 54	0.268 Abs [0.2630] {2.7 C	> 5.000 µg/L	21.053 %Abs			M22B127(
MCT 546 LRB 1	MICROCYSTINS ADDA 54	1.232 Abs	0.032 µg/L	96.779 %Abs			M22B127(
MCT 546 LRB 1	MICROCYSTINS ADDA 54	1.209 Abs [1.2205] {1.3 C	0.045 µg/L [0.039]	94.973 %Abs [95.8			M22B127(
MCT 546 Low-CV	MICROCYSTINS ADDA 54	0.801 Abs	0.369 µg/L	62.922 %Abs			M22B127(
MCT 546 Low-CV	MICROCYSTINS ADDA 54	0.818 Abs [0.8095] {1.5 C	0.349 µg/L [0.359]	64.258 %Abs [63.5			M22B127(
MCT 546 LFB 1	MICROCYSTINS ADDA 54	0.733 Abs	0.460 µg/L	57.581 %Abs			M22B127(
MCT 546 LFB 1	MICROCYSTINS ADDA 54	0.703 Abs [0.7180] {3.0 C	0.508 µg/L [0.484]	55.224 %Abs [56.4			M22B127(

Note



Signature

Test Report (by Request)

Test Information

Request: 8/17/2022 7:28:13 PM
Date: 8/17/2022 - 8/18/2022

Name/ID	Assay	Absorbance	Concentration	Interpretation	Note	Reference	Lot#
AB52432	MICROCYSTINS ADDA 54	1.190 Abs	0.057 µg/L	Low, 93.480 %Abs		0.300 - 5.000	M22B127(
AB52432	MICROCYSTINS ADDA 54	1.179 Abs [1.1845] {0.7 C	0.063 µg/L [0.060]			0.300 - 5.000	M22B127(
AB52433	MICROCYSTINS ADDA 54	1.143 Abs	0.085 µg/L	Low, 89.788 %Abs		0.300 - 5.000	M22B127(
AB52433	MICROCYSTINS ADDA 54	1.130 Abs [1.1365] {0.8 C	0.093 µg/L [0.089]			0.300 - 5.000	M22B127(
AB52434	MICROCYSTINS ADDA 54	1.089 Abs	0.119 µg/L	Low, 85.546 %Abs		0.300 - 5.000	M22B127(
AB52434	MICROCYSTINS ADDA 54	1.113 Abs [1.1010] {1.5 C	0.103 µg/L [0.111]			0.300 - 5.000	M22B127(
AB52435	MICROCYSTINS ADDA 54	1.066 Abs	0.134 µg/L	Low, 83.739 %Abs		0.300 - 5.000	M22B127(
AB52435	MICROCYSTINS ADDA 54	1.066 Abs [1.0660] {0.0 C	0.134 µg/L [0.134]			0.300 - 5.000	M22B127(
AB52436	MICROCYSTINS ADDA 54	1.074 Abs	0.129 µg/L	Low, 84.368 %Abs		0.300 - 5.000	M22B127(
AB52436	MICROCYSTINS ADDA 54	1.062 Abs [1.0680] {0.8 C	0.137 µg/L [0.133]			0.300 - 5.000	M22B127(
AB52437	MICROCYSTINS ADDA 54	1.125 Abs	0.096 µg/L	Low, 88.374 %Abs		0.300 - 5.000	M22B127(
AB52437	MICROCYSTINS ADDA 54	1.128 Abs [1.1265] {0.2 C	0.094 µg/L [0.095]			0.300 - 5.000	M22B127(
AB52437MS	MICROCYSTINS ADDA 54	0.630 Abs	0.648 µg/L	49.489 %Abs		0.300 - 5.000	M22B127(
AB52437MS	MICROCYSTINS ADDA 54	0.663 Abs [0.6465] {3.6 C	0.579 µg/L [0.613]	52.082 %Abs [50.7		0.300 - 5.000	M22B127(
AB52437MSD	MICROCYSTINS ADDA 54	0.676 Abs	0.555 µg/L	53.103 %Abs		0.300 - 5.000	M22B127(
AB52437MSD	MICROCYSTINS ADDA 54	0.665 Abs [0.6705] {1.2 C	0.575 µg/L [0.565]	52.239 %Abs [52.6		0.300 - 5.000	M22B127(
AB52438	MICROCYSTINS ADDA 54	0.931 Abs	0.237 µg/L	Low, 73.134 %Abs		0.300 - 5.000	M22B127(
AB52438	MICROCYSTINS ADDA 54	0.943 Abs [0.9370] {0.9 C	0.226 µg/L [0.231]			0.300 - 5.000	M22B127(
AB52439	MICROCYSTINS ADDA 54	0.975 Abs	0.200 µg/L	Low, 76.591 %Abs		0.300 - 5.000	M22B127(
AB52439	MICROCYSTINS ADDA 54	0.957 Abs [0.9660] {1.3 C	0.215 µg/L [0.208]			0.300 - 5.000	M22B127(
AB52440	MICROCYSTINS ADDA 54	1.113 Abs	0.103 µg/L	Low, 87.431 %Abs		0.300 - 5.000	M22B127(
AB52440	MICROCYSTINS ADDA 54	1.131 Abs [1.1220] {1.1 C	0.092 µg/L [0.097]			0.300 - 5.000	M22B127(
AB52441	MICROCYSTINS ADDA 54	1.253 Abs	0.019 µg/L	Low, 98.429 %Abs		0.300 - 5.000	M22B127(
AB52441	MICROCYSTINS ADDA 54	1.253 Abs [1.2530] {0.0 C	0.019 µg/L [0.019]			0.300 - 5.000	M22B127(
AB52442	MICROCYSTINS ADDA 54	1.103 Abs	0.110 µg/L	Low, 86.646 %Abs		0.300 - 5.000	M22B127(
AB52442	MICROCYSTINS ADDA 54	1.100 Abs [1.1015] {0.2 C	0.112 µg/L [0.111]			0.300 - 5.000	M22B127(
AB52443	MICROCYSTINS ADDA 54	0.956 Abs	0.215 µg/L	Low, 75.098 %Abs		0.300 - 5.000	M22B127(
AB52443	MICROCYSTINS ADDA 54	0.941 Abs [0.9485] {1.1 C	0.228 µg/L [0.222]			0.300 - 5.000	M22B127(
AB52444	MICROCYSTINS ADDA 54	1.160 Abs	0.074 µg/L	Low, 91.123 %Abs		0.300 - 5.000	M22B127(
AB52444	MICROCYSTINS ADDA 54	1.191 Abs [1.1755] {1.9 C	0.056 µg/L [0.065]			0.300 - 5.000	M22B127(
AB52560	MICROCYSTINS ADDA 54	1.212 Abs	0.044 µg/L	Low, 95.208 %Abs		0.300 - 5.000	M22B127(
AB52560	MICROCYSTINS ADDA 54	1.184 Abs [1.1980] {1.7 C	0.060 µg/L [0.052]			0.300 - 5.000	M22B127(
AB52560LD	MICROCYSTINS ADDA 54	1.157 Abs	0.076 µg/L	Low, 90.888 %Abs		0.300 - 5.000	M22B127(
AB52560LD	MICROCYSTINS ADDA 54	1.164 Abs [1.1605] {0.4 C	0.072 µg/L [0.074]			0.300 - 5.000	M22B127(
LFB 2	MICROCYSTINS ADDA 54	0.721 Abs	0.479 µg/L	56.638 %Abs		0.300 - 5.000	M22B127(
LFB 2	MICROCYSTINS ADDA 54	0.700 Abs [0.7105] {2.1 C	0.513 µg/L [0.496]	54.988 %Abs [55.8		0.300 - 5.000	M22B127(
LRB 2	MICROCYSTINS ADDA 54	1.172 Abs	0.067 µg/L	Low, 92.066 %Abs		0.300 - 5.000	M22B127(
LRB 2	MICROCYSTINS ADDA 54	1.142 Abs [1.1570] {1.8 C	0.085 µg/L [0.076]			0.300 - 5.000	M22B127(

Note

Signature 

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	
8/17/2022 7:25:48 PM					
MCT Std 0	1.267 Abs	0.010 µg/L	R ² =0.99685, 99.529 %Abs	RK1:23->A01@2	
MCT Std 0	1.278 Abs [1.2725] {0.6 CV}	0.001 µg/L [0.006] {115.7 CV}	R ² =0.99685, 100.393 %Abs	RK1:23->B01@2	
MCT Std 1	1.072 Abs	0.130 µg/L	R ² =0.99685, 84.211 %Abs	RK1:24->C01@2	
MCT Std 1	1.054 Abs [1.0630] {1.2 CV}	0.142 µg/L [0.136] {6.2 CV}	R ² =0.99685, 82.797 %Abs	RK1:24->D01@2	
MCT Std 2	0.768 Abs	0.411 µg/L	R ² =0.99685, 60.330 %Abs	RK1:25->E01@2	
MCT Std 2	0.734 Abs [0.7510] {3.2 CV}	0.459 µg/L [0.435] {7.8 CV}	R ² =0.99685, 57.659 %Abs	RK1:25->F01@3	
MCT Std 3	0.512 Abs	1.004 µg/L	R ² =0.99685, 40.220 %Abs	RK1:26->G01@3	
MCT Std 3	0.514 Abs [0.5130] {0.3 CV}	0.995 µg/L [0.999] {0.6 CV}	R ² =0.99685, 40.377 %Abs	RK1:26->H01@3	
MCT Std 4	0.415 Abs	1.583 µg/L	R ² =0.99685, 32.600 %Abs	RK1:27->A02@2	
MCT Std 4	0.400 Abs [0.4075] {2.6 CV}	1.725 µg/L [1.654] {6.1 CV}	R ² =0.99685, 31.422 %Abs	RK1:27->B02@2	
MCT Std 5	0.258 Abs	> 5.000 µg/L	20.267 %Abs	RK1:28->C02@2	
MCT Std 5	0.268 Abs [0.2630] {2.7 CV}	> 5.000 µg/L	21.053 %Abs	RK1:28->D02@2	

8/17/2022 7:25:48 PM					
MCT 546 LRB 1	1.232 Abs	0.032 µg/L	96.779 %Abs	RK1:29->E02@2	
MCT 546 LRB 1	1.209 Abs [1.2205] {1.3 CV}	0.045 µg/L [0.039] {23.9 CV}	94.973 %Abs [95.876 %Abs]	RK1:29->F02@3	
MCT 546 Low-CV	0.801 Abs	0.369 µg/L	62.922 %Abs	RK1:30->G02@3	
MCT 546 Low-CV	0.818 Abs [0.8095] {1.5 CV}	0.349 µg/L [0.359] {3.9 CV}	64.258 %Abs [63.590 %Abs]	RK1:30->H02@3	
MCT 546 LFB 1	0.733 Abs	0.460 µg/L	57.581 %Abs	RK1:31->A03@2	
MCT 546 LFB 1	0.703 Abs [0.7180] {3.0 CV}	0.508 µg/L [0.484] {7.0 CV}	55.224 %Abs [56.402 %Abs]	RK1:31->B03@2	

Statistic					
MCT Std 0 [MEAN]	1.2725	0.0055			
MCT Std 0 [SD]	0.0078	0.0064			
MCT Std 0 [%CV]	0.6113	115.7084			
MCT Std 1 [MEAN]	1.0630	0.1360			
MCT Std 1 [SD]	0.0127	0.0085			
MCT Std 1 [%CV]	1.1974	6.2392			
MCT Std 1 [%DIFF]		-9.3333			
MCT Std 2 [MEAN]	0.7510	0.4350			
MCT Std 2 [SD]	0.0240	0.0339			
MCT Std 2 [%CV]	3.2013	7.8026			
MCT Std 2 [%DIFF]		8.7500			
MCT Std 3 [MEAN]	0.5130	0.9995			
MCT Std 3 [SD]	0.0014	0.0064			
MCT Std 3 [%CV]	0.2757	0.6367			
MCT Std 3 [%DIFF]		-0.0500			
MCT Std 4 [MEAN]	0.4075	1.6540			

Name	Absorbance	Concentration	Interpretation	Position
MCT Std 4 [SD]	0.0106	0.1004		
MCT Std 4 [%CV]	2.6028	6.0707		
MCT Std 4 [%DIFF]		-17.3000		
MCT Std 5 [MEAN]	0.2630			
MCT Std 5 [SD]	0.0071			
MCT Std 5 [%CV]	2.6886			
MCT 546 LRB 1 [MEAN]	1.2205	0.0385		
MCT 546 LRB 1 [SD]	0.0163	0.0092		
MCT 546 LRB 1 [%CV]	1.3325	23.8763		
MCT 546 Low-CV [MEAN]	0.8095	0.3590		
MCT 546 Low-CV [SD]	0.0120	0.0141		
MCT 546 Low-CV [%CV]	1.4850	3.9393		
MCT 546 LFB 1 [MEAN]	0.7180	0.4840		
MCT 546 LFB 1 [SD]	0.0212	0.0339		
MCT 546 LFB 1 [%CV]	2.9545	7.0126		

Assay Curve

$y = (A-D)/(1+(x/C)^B) + D$
 Weight: NONE
 A = 1.2789
 B = 1.1719
 C = 0.43179
 D = 0.22655
 R2 coef = 0.99685
 50% = 0.634

