



Microcystins ELISA Summary Report

Office of Water Quality - Watershed Assessment and Planning Branch

| Sample # | Location | Date Collected | Date Analyzed | Conc. (ppb) |
|----------|-------------------------------------|----------------|---------------|-------------|
| AB48118 | Summit Lake - State Park | 8/16/2021 | 8/18/2021 | < 0.30 |
| AB48119 | Kunkel Beach @ Ouabache State Park | 8/17/2021 | 8/18/2021 | < 0.30 |
| AB48120 | Pokagon State Park | 8/17/2021 | 8/18/2021 | < 0.30 |
| AB48121 | Potawatomi Inn's Beach | 8/17/2021 | 8/18/2021 | < 0.30 |
| AB48122 | Chain O'Lakes SP | 8/17/2021 | 8/18/2021 | < 0.30 |
| AB48123 | Potato Creek State Park | 8/17/2021 | 8/18/2021 | < 0.30 |
| AB48124 | Lost Bridge West SRA | 8/16/2021 | 8/19/2021 | 1.39 |
| AB48125 | Mississinewa Lake Miami SRA | 8/16/2021 | 8/18/2021 | < 0.30 |
| AB48126 | Summit Lake State Park (Field Dup) | 8/16/2021 | 8/18/2021 | < 0.30 |
| AB48127 | Field Blank | 8/16/2021 | 8/18/2021 | < 0.30 |
| AB48131 | Lincoln State Park | 8/16/2021 | 8/18/2021 | < 0.30 |
| AB48132 | Ferdinand State Forest Lake | 8/16/2021 | 8/18/2021 | < 0.30 |
| AB48133 | Patoka SRA Beach | 8/16/2021 | 8/18/2021 | < 0.30 |
| AB48328 | Ft. Ben Harrison SP Dog Lake - East | 8/17/2021 | 8/18/2021 | < 0.30 |

Test Information

Request: 8/18/2021 7:23:42 PM
Date: 8/18/2021

| Name/ID | Assay | Absorbance | Concentration | Interpretation | Note | Reference | Lot# |
|----------------|----------------------|---------------------------|---------------------|--------------------|------|-----------|---------|
| MCT Std 0 | MICROCYSTINS ADDA 54 | 1.414 Abs | 0.003 µg/L | R^2=0.99854, 99.71 | | | 20J4209 |
| MCT Std 0 | MICROCYSTINS ADDA 54 | 1.423 Abs [1.4185] {0.4 C | 0.000 µg/L [0.002] | R^2=0.99854, 100.3 | | | 20J4209 |
| MCT Std 1 | MICROCYSTINS ADDA 54 | 1.174 Abs | 0.131 µg/L | R^2=0.99854, 82.79 | | | 20J4209 |
| MCT Std 1 | MICROCYSTINS ADDA 54 | 1.152 Abs [1.1630] {1.3 C | 0.146 µg/L [0.139] | R^2=0.99854, 81.24 | | | 20J4209 |
| MCT Std 2 | MICROCYSTINS ADDA 54 | 0.876 Abs | 0.415 µg/L | R^2=0.99854, 61.77 | | | 20J4209 |
| MCT Std 2 | MICROCYSTINS ADDA 54 | 0.851 Abs [0.8635] {2.0 C | 0.451 µg/L [0.433] | R^2=0.99854, 60.01 | | | 20J4209 |
| MCT Std 3 | MICROCYSTINS ADDA 54 | 0.624 Abs | 0.972 µg/L | R^2=0.99854, 44.00 | | | 20J4209 |
| MCT Std 3 | MICROCYSTINS ADDA 54 | 0.618 Abs [0.6210] {0.7 C | 0.994 µg/L [0.983] | R^2=0.99854, 43.58 | | | 20J4209 |
| MCT Std 4 | MICROCYSTINS ADDA 54 | 0.479 Abs | 1.762 µg/L | R^2=0.99854, 33.78 | | | 20J4209 |
| MCT Std 4 | MICROCYSTINS ADDA 54 | 0.462 Abs [0.4705] {2.6 C | 1.914 µg/L [1.838] | R^2=0.99854, 32.58 | | | 20J4209 |
| MCT Std 5 | MICROCYSTINS ADDA 54 | 0.325 Abs | 4.758 µg/L | R^2=0.99854, 22.92 | | | 20J4209 |
| MCT Std 5 | MICROCYSTINS ADDA 54 | 0.293 Abs [0.3090] {7.3 C | > 5.000 µg/L [4.75] | 20.663 %Abs | | | 20J4209 |
| MCT 546 LRB 1 | MICROCYSTINS ADDA 54 | 1.408 Abs | 0.006 µg/L | 99.295 %Abs | | | 20J4209 |
| MCT 546 LRB 1 | MICROCYSTINS ADDA 54 | 1.390 Abs [1.3990] {0.9 C | 0.014 µg/L [0.010] | 98.025 %Abs [98.6 | | | 20J4209 |
| MCT 546 Low-CV | MICROCYSTINS ADDA 54 | 0.951 Abs | 0.322 µg/L | 67.066 %Abs | | | 20J4209 |
| MCT 546 Low-CV | MICROCYSTINS ADDA 54 | 0.957 Abs [0.9540] {0.4 C | 0.315 µg/L [0.318] | 67.489 %Abs [67.2 | | | 20J4209 |
| MCT 546 LFB 1 | MICROCYSTINS ADDA 54 | 0.802 Abs | 0.529 µg/L | 56.559 %Abs | | | 20J4209 |
| MCT 546 LFB 1 | MICROCYSTINS ADDA 54 | 0.765 Abs [0.7835] {3.3 C | 0.598 µg/L [0.563] | 53.949 %Abs [55.2 | | | 20J4209 |

Note

Signature

David Jordan

David Jordan 8/18/2021

Test Information

Request: 8/18/2021 7:24:46 PM
Date: 8/18/2021

| Name/ID | Assay | Absorbance | Concentration | Interpretation | Note | Reference | Lot# |
|------------|----------------------|---------------------------|--------------------|-------------------|------|---------------|---------|
| AB48118 | MICROCYSTINS ADDA 54 | 1.316 Abs | 0.049 µg/L | Low, 92.807 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48118 | MICROCYSTINS ADDA 54 | 1.307 Abs [1.3115] {0.5 C | 0.053 µg/L [0.051] | Low, 92.172 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48119 | MICROCYSTINS ADDA 54 | 1.266 Abs | 0.075 µg/L | Low, 89.281 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48119 | MICROCYSTINS ADDA 54 | 1.268 Abs [1.2670] {0.1 C | 0.074 µg/L [0.075] | Low, 89.422 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48120 | MICROCYSTINS ADDA 54 | 1.263 Abs | 0.077 µg/L | Low, 89.069 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48120 | MICROCYSTINS ADDA 54 | 1.245 Abs [1.2540] {1.0 C | 0.087 µg/L [0.082] | Low, 87.800 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48121 | MICROCYSTINS ADDA 54 | 1.286 Abs | 0.064 µg/L | Low, 90.691 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48121 | MICROCYSTINS ADDA 54 | 1.287 Abs [1.2865] {0.1 C | 0.064 µg/L [0.064] | Low, 90.762 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48122 | MICROCYSTINS ADDA 54 | 1.194 Abs | 0.118 µg/L | Low, 84.203 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48122 | MICROCYSTINS ADDA 54 | 1.142 Abs [1.1680] {3.1 C | 0.153 µg/L [0.135] | Low, 80.536 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48123 | MICROCYSTINS ADDA 54 | 1.255 Abs | 0.081 µg/L | Low, 88.505 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48123 | MICROCYSTINS ADDA 54 | 1.254 Abs [1.2545] {0.1 C | 0.082 µg/L [0.082] | Low, 88.434 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48124 | MICROCYSTINS ADDA 54 | 0.352 Abs | 3.767 µg/L | 24.824 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48124 | MICROCYSTINS ADDA 54 | 0.515 Abs [0.4335] {26.6 | 1.496 µg/L [2.632] | 36.319 %Abs [30.5 | | 0.300 - 5.000 | 20J4209 |
| AB48124MS | MICROCYSTINS ADDA 54 | 0.432 Abs | 2.239 µg/L | 30.465 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48124MS | MICROCYSTINS ADDA 54 | 0.418 Abs [0.4250] {2.3 C | 2.422 µg/L [2.331] | 29.478 %Abs [29.9 | | 0.300 - 5.000 | 20J4209 |
| AB48124MSD | MICROCYSTINS ADDA 54 | 0.416 Abs | 2.450 µg/L | 29.337 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48124MSD | MICROCYSTINS ADDA 54 | 0.384 Abs [0.4000] {5.7 C | 2.988 µg/L [2.719] | 27.080 %Abs [28.2 | | 0.300 - 5.000 | 20J4209 |
| AB48125 | MICROCYSTINS ADDA 54 | 1.150 Abs | 0.147 µg/L | Low, 81.100 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48125 | MICROCYSTINS ADDA 54 | 1.127 Abs [1.1385] {1.4 C | 0.163 µg/L [0.155] | Low, 79.478 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48126 | MICROCYSTINS ADDA 54 | 1.282 Abs | 0.066 µg/L | Low, 90.409 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48126 | MICROCYSTINS ADDA 54 | 1.287 Abs [1.2845] {0.3 C | 0.064 µg/L [0.065] | Low, 90.762 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48127 | MICROCYSTINS ADDA 54 | 1.433 Abs | 0.000 µg/L | Low, 101.058 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48127 | MICROCYSTINS ADDA 54 | 1.375 Abs [1.4040] {2.9 C | 0.021 µg/L [0.010] | Low, 96.968 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48131 | MICROCYSTINS ADDA 54 | 1.040 Abs | 0.233 µg/L | Low, 73.343 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48131 | MICROCYSTINS ADDA 54 | 1.002 Abs [1.0210] {2.6 C | 0.269 µg/L [0.251] | Low, 70.663 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48132 | MICROCYSTINS ADDA 54 | 1.114 Abs | 0.173 µg/L | Low, 78.561 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48132 | MICROCYSTINS ADDA 54 | 1.095 Abs [1.1045] {1.2 C | 0.187 µg/L [0.180] | Low, 77.221 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48133 | MICROCYSTINS ADDA 54 | 1.309 Abs | 0.052 µg/L | Low, 92.313 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48133 | MICROCYSTINS ADDA 54 | 1.306 Abs [1.3075] {0.2 C | 0.054 µg/L [0.053] | Low, 92.102 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48328 | MICROCYSTINS ADDA 54 | 1.413 Abs | 0.004 µg/L | Low, 99.647 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48328 | MICROCYSTINS ADDA 54 | 1.349 Abs [1.3810] {3.3 C | 0.033 µg/L [0.019] | Low, 95.134 %Abs | | 0.300 - 5.000 | 20J4209 |
| LFB 2 | MICROCYSTINS ADDA 54 | 0.808 Abs | 0.519 µg/L | 56.982 %Abs | | 0.300 - 5.000 | 20J4209 |
| LFB 2 | MICROCYSTINS ADDA 54 | 0.753 Abs [0.7805] {5.0 C | 0.622 µg/L [0.571] | 53.103 %Abs [55.0 | | 0.300 - 5.000 | 20J4209 |
| LRB 2 | MICROCYSTINS ADDA 54 | 1.364 Abs | 0.026 µg/L | Low, 96.192 %Abs | | 0.300 - 5.000 | 20J4209 |
| LRB 2 | MICROCYSTINS ADDA 54 | 1.342 Abs [1.3530] {1.1 C | 0.036 µg/L [0.031] | Low, 94.640 %Abs | | 0.300 - 5.000 | 20J4209 |

Note

The %CV of absorption was outside the acceptable limit (> 15.0%) for AB48124.

AB48124 was reanalyzed on 8/19/2021 and was acceptable.

Signature 

David Jordan 8/18/2021

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: 20J4209

Assay Calibration

Current Calibration Status: "

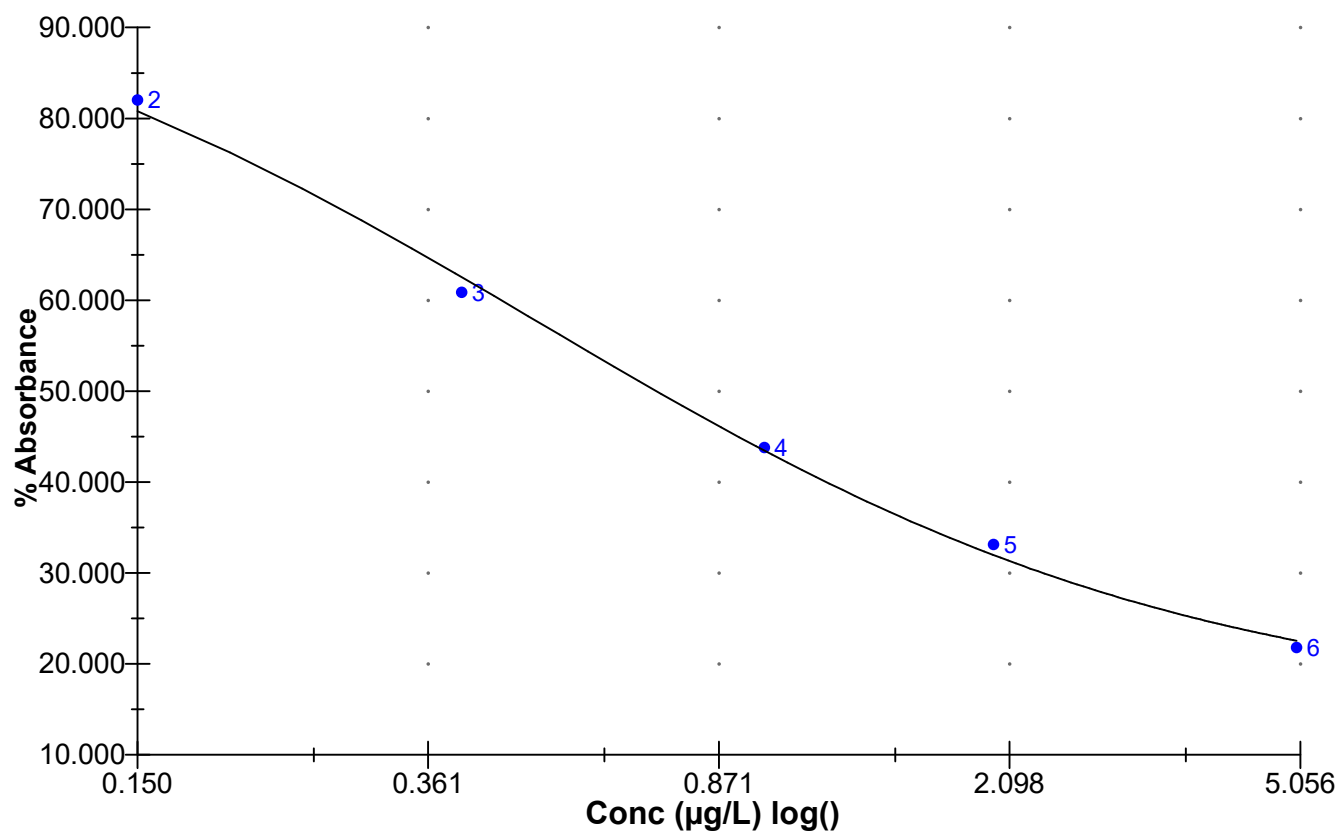
"

| Name | Absorbance | Concentration | Interpretation | Position | |
|----------------------|-----------------------------|-------------------------------|---------------------------------------|---------------|--|
| 8/18/2021 7:23:42 PM | | | | | |
| MCT Std 0 | 1.414 Abs | 0.003 µg/L | R ² =0.99854, 99.718 %Abs | RK1:23->A01@2 | |
| MCT Std 0 | 1.423 Abs [1.4185] {0.4 CV} | 0.000 µg/L [0.002] {141.4 CV} | R ² =0.99854, 100.353 %Abs | RK1:23->B01@2 | |
| MCT Std 1 | 1.174 Abs | 0.131 µg/L | R ² =0.99854, 82.793 %Abs | RK1:24->C01@2 | |
| MCT Std 1 | 1.152 Abs [1.1630] {1.3 CV} | 0.146 µg/L [0.139] {7.7 CV} | R ² =0.99854, 81.241 %Abs | RK1:24->D01@2 | |
| MCT Std 2 | 0.876 Abs | 0.415 µg/L | R ² =0.99854, 61.777 %Abs | RK1:25->E01@2 | |
| MCT Std 2 | 0.851 Abs [0.8635] {2.0 CV} | 0.451 µg/L [0.433] {5.9 CV} | R ² =0.99854, 60.014 %Abs | RK1:25->F01@3 | |
| MCT Std 3 | 0.624 Abs | 0.972 µg/L | R ² =0.99854, 44.006 %Abs | RK1:26->G01@3 | |
| MCT Std 3 | 0.618 Abs [0.6210] {0.7 CV} | 0.994 µg/L [0.983] {1.6 CV} | R ² =0.99854, 43.583 %Abs | RK1:26->H01@3 | |
| MCT Std 4 | 0.479 Abs | 1.762 µg/L | R ² =0.99854, 33.780 %Abs | RK1:27->A02@2 | |
| MCT Std 4 | 0.462 Abs [0.4705] {2.6 CV} | 1.914 µg/L [1.838] {5.8 CV} | R ² =0.99854, 32.581 %Abs | RK1:27->B02@2 | |
| MCT Std 5 | 0.325 Abs | 4.758 µg/L | R ² =0.99854, 22.920 %Abs | RK1:28->C02@2 | |
| MCT Std 5 | 0.293 Abs [0.3090] {7.3 CV} | > 5.000 µg/L [4.758] | 20.663 %Abs | RK1:28->D02@2 | |
| ***** | | | | | |
| 8/18/2021 7:23:42 PM | | | | | |
| MCT 546 LRB 1 | 1.408 Abs | 0.006 µg/L | 99.295 %Abs | RK1:29->E02@2 | |
| MCT 546 LRB 1 | 1.390 Abs [1.3990] {0.9 CV} | 0.014 µg/L [0.010] {56.6 CV} | 98.025 %Abs [98.660 %Abs] | RK1:29->F02@3 | |
| MCT 546 Low-CV | 0.951 Abs | 0.322 µg/L | 67.066 %Abs | RK1:30->G02@3 | |
| MCT 546 Low-CV | 0.957 Abs [0.9540] {0.4 CV} | 0.315 µg/L [0.318] {1.6 CV} | 67.489 %Abs [67.278 %Abs] | RK1:30->H02@3 | |
| MCT 546 LFB 1 | 0.802 Abs | 0.529 µg/L | 56.559 %Abs | RK1:31->A03@2 | |
| MCT 546 LFB 1 | 0.765 Abs [0.7835] {3.3 CV} | 0.598 µg/L [0.563] {8.7 CV} | 53.949 %Abs [55.254 %Abs] | RK1:31->B03@2 | |
| ***** | | | | | |
| Statistic | | | | | |
| MCT Std 0 [MEAN] | 1.4185 | 0.0015 | | | |
| MCT Std 0 [SD] | 0.0064 | 0.0021 | | | |
| MCT Std 0 [%CV] | 0.4486 | 141.4214 | | | |
| MCT Std 1 [MEAN] | 1.1630 | 0.1385 | | | |
| MCT Std 1 [SD] | 0.0156 | 0.0106 | | | |
| MCT Std 1 [%CV] | 1.3376 | 7.6582 | | | |
| MCT Std 1 [%DIFF] | | -7.6667 | | | |
| MCT Std 2 [MEAN] | 0.8635 | 0.4330 | | | |
| MCT Std 2 [SD] | 0.0177 | 0.0255 | | | |
| MCT Std 2 [%CV] | 2.0472 | 5.8790 | | | |
| MCT Std 2 [%DIFF] | | 8.2500 | | | |
| MCT Std 3 [MEAN] | 0.6210 | 0.9830 | | | |
| MCT Std 3 [SD] | 0.0042 | 0.0156 | | | |
| MCT Std 3 [%CV] | 0.6832 | 1.5825 | | | |
| MCT Std 3 [%DIFF] | | -1.7000 | | | |
| MCT Std 4 [MEAN] | 0.4705 | 1.8380 | | | |

| Name | Absorbance | Concentration | Interpretation | Position |
|-----------------------|------------|---------------|----------------|----------|
| MCT Std 4 [SD] | 0.0120 | 0.1075 | | |
| MCT Std 4 [%CV] | 2.5549 | 5.8477 | | |
| MCT Std 4 [%DIFF] | | -8.1000 | | |
| MCT Std 5 [MEAN] | 0.3090 | | | |
| MCT Std 5 [SD] | 0.0226 | | | |
| MCT Std 5 [%CV] | 7.3228 | | | |
| MCT 546 LRB 1 [MEAN] | 1.3990 | 0.0100 | | |
| MCT 546 LRB 1 [SD] | 0.0127 | 0.0057 | | |
| MCT 546 LRB 1 [%CV] | 0.9098 | 56.5686 | | |
| MCT 546 Low-CV [MEAN] | 0.9540 | 0.3185 | | |
| MCT 546 Low-CV [SD] | 0.0042 | 0.0049 | | |
| MCT 546 Low-CV [%CV] | 0.4447 | 1.5541 | | |
| MCT 546 LFB 1 [MEAN] | 0.7835 | 0.5635 | | |
| MCT 546 LFB 1 [SD] | 0.0262 | 0.0488 | | |
| MCT 546 LFB 1 [%CV] | 3.3392 | 8.6585 | | |

Assay Curve

$y = (A-D)/(1+(x/C)^B) + D$
 Weight: NONE
 A = 1.4220
 B = 1.0028
 C = 0.50648
 D = 0.20895
 R2 coef = 0.99854
 50% = 0.721



Test Information

Request: 8/19/2021 11:31:46 AM
Date: 8/19/2021

| Name/ID | Assay | Absorbance | Concentration | Interpretation | Note | Reference | Lot# |
|----------------|----------------------|---------------------------|--------------------|--------------------|------|-----------|---------|
| MCT Std 0 | MICROCYSTINS ADDA 54 | 1.521 Abs | 0.000 µg/L | R^2=0.99846, 100.6 | | | 20J4209 |
| MCT Std 0 | MICROCYSTINS ADDA 54 | 1.501 Abs [1.5110] {0.9 C | 0.006 µg/L [0.003] | R^2=0.99846, 99.3 | | | 20J4209 |
| MCT Std 1 | MICROCYSTINS ADDA 54 | 1.252 Abs | 0.127 µg/L | R^2=0.99846, 82.8 | | | 20J4209 |
| MCT Std 1 | MICROCYSTINS ADDA 54 | 1.213 Abs [1.2325] {2.2 C | 0.151 µg/L [0.139] | R^2=0.99846, 80.2 | | | 20J4209 |
| MCT Std 2 | MICROCYSTINS ADDA 54 | 0.925 Abs | 0.412 µg/L | R^2=0.99846, 61.2 | | | 20J4209 |
| MCT Std 2 | MICROCYSTINS ADDA 54 | 0.895 Abs [0.9100] {2.3 C | 0.453 µg/L [0.433] | R^2=0.99846, 59.2 | | | 20J4209 |
| MCT Std 3 | MICROCYSTINS ADDA 54 | 0.653 Abs | 0.979 µg/L | R^2=0.99846, 43.2 | | | 20J4209 |
| MCT Std 3 | MICROCYSTINS ADDA 54 | 0.648 Abs [0.6505] {0.5 C | 0.996 µg/L [0.987] | R^2=0.99846, 42.8 | | | 20J4209 |
| MCT Std 4 | MICROCYSTINS ADDA 54 | 0.489 Abs | 1.882 µg/L | R^2=0.99846, 32.3 | | | 20J4209 |
| MCT Std 4 | MICROCYSTINS ADDA 54 | 0.504 Abs [0.4965] {2.1 C | 1.755 µg/L [1.819] | R^2=0.99846, 33.3 | | | 20J4209 |
| MCT Std 5 | MICROCYSTINS ADDA 54 | 0.335 Abs | > 5.000 µg/L | 22.171 %Abs | | | 20J4209 |
| MCT Std 5 | MICROCYSTINS ADDA 54 | 0.318 Abs [0.3265] {3.7 C | > 5.000 µg/L | 21.046 %Abs | | | 20J4209 |
| MCT 546 LRB 1 | MICROCYSTINS ADDA 54 | 1.477 Abs | 0.015 µg/L | 97.750 %Abs | | | 20J4209 |
| MCT 546 LRB 1 | MICROCYSTINS ADDA 54 | 1.450 Abs [1.4635] {1.3 C | 0.027 µg/L [0.021] | 95.963 %Abs [96.8 | | | 20J4209 |
| MCT 546 Low-CV | MICROCYSTINS ADDA 54 | 1.026 Abs | 0.300 µg/L | 67.902 %Abs | | | 20J4209 |
| MCT 546 Low-CV | MICROCYSTINS ADDA 54 | 1.006 Abs [1.0160] {1.4 C | 0.320 µg/L [0.310] | 66.578 %Abs [67.2 | | | 20J4209 |
| MCT 546 LFB 1 | MICROCYSTINS ADDA 54 | 0.830 Abs | 0.553 µg/L | 54.931 %Abs | | | 20J4209 |
| MCT 546 LFB 1 | MICROCYSTINS ADDA 54 | 0.822 Abs [0.8260] {0.7 C | 0.567 µg/L [0.560] | 54.401 %Abs [54.6 | | | 20J4209 |

Note

Signature

David Jordan

David Jordan 8/19/2021

Test Information

Request: 8/19/2021 11:32:01 AM
Date: 8/19/2021

| Name/ID | Assay | Absorbance | Concentration | Interpretation | Note | Reference | Lot# |
|------------|----------------------|---------------------------|--------------------|-------------------|------|---------------|---------|
| AB48124 | MICROCYSTINS ADDA 54 | 0.572 Abs | 1.318 µg/L | 37.856 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48124 | MICROCYSTINS ADDA 54 | 0.545 Abs [0.5585] {3.4 C | 1.469 µg/L [1.393] | 36.069 %Abs [36.9 | | 0.300 - 5.000 | 20J4209 |
| AB48124MS | MICROCYSTINS ADDA 54 | 0.452 Abs | 2.266 µg/L | 29.914 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48124MS | MICROCYSTINS ADDA 54 | 0.433 Abs [0.4425] {3.0 C | 2.517 µg/L [2.391] | 28.657 %Abs [29.2 | | 0.300 - 5.000 | 20J4209 |
| AB48124MSD | MICROCYSTINS ADDA 54 | 0.440 Abs | 2.419 µg/L | 29.120 %Abs | | 0.300 - 5.000 | 20J4209 |
| AB48124MSD | MICROCYSTINS ADDA 54 | 0.423 Abs [0.4315] {2.8 C | 2.668 µg/L [2.543] | 27.995 %Abs [28.5 | | 0.300 - 5.000 | 20J4209 |
| LFB 2 | MICROCYSTINS ADDA 54 | 0.858 Abs | 0.507 µg/L | 56.784 %Abs | | 0.300 - 5.000 | 20J4209 |
| LFB 2 | MICROCYSTINS ADDA 54 | 0.830 Abs [0.8440] {2.3 C | 0.553 µg/L [0.530] | 54.931 %Abs [55.8 | | 0.300 - 5.000 | 20J4209 |
| LRB 2 | MICROCYSTINS ADDA 54 | 1.448 Abs | 0.028 µg/L | Low, 95.831 %Abs | | 0.300 - 5.000 | 20J4209 |
| LRB 2 | MICROCYSTINS ADDA 54 | 1.422 Abs [1.4350] {1.3 C | 0.039 µg/L [0.034] | Low, 94.110 %Abs | | 0.300 - 5.000 | 20J4209 |

Note

The result for AB48124, from 8/19/2021 had a valid %CV and was included in the summary.

Signature

David Jordan

David Jordan 8/19/2021

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: 20J4209

Assay Calibration

Current Calibration Status: "

"

| Name | Absorbance | Concentration | Interpretation | Position | |
|------------------------------|-----------------------------|-------------------------------|---------------------------------------|---------------|--|
| 8/19/2021 11:31:46 AM | | | | | |
| MCT Std 0 | 1.521 Abs | 0.000 µg/L | R ² =0.99846, 100.662 %Abs | RK1:23->A01@2 | |
| MCT Std 0 | 1.501 Abs [1.5110] {0.9 CV} | 0.006 µg/L [0.003] {141.4 CV} | R ² =0.99846, 99.338 %Abs | RK1:23->B01@2 | |
| MCT Std 1 | 1.252 Abs | 0.127 µg/L | R ² =0.99846, 82.859 %Abs | RK1:24->C01@2 | |
| MCT Std 1 | 1.213 Abs [1.2325] {2.2 CV} | 0.151 µg/L [0.139] {12.2 CV} | R ² =0.99846, 80.278 %Abs | RK1:24->D01@2 | |
| MCT Std 2 | 0.925 Abs | 0.412 µg/L | R ² =0.99846, 61.218 %Abs | RK1:25->E01@2 | |
| MCT Std 2 | 0.895 Abs [0.9100] {2.3 CV} | 0.453 µg/L [0.433] {6.7 CV} | R ² =0.99846, 59.232 %Abs | RK1:25->F01@3 | |
| MCT Std 3 | 0.653 Abs | 0.979 µg/L | R ² =0.99846, 43.216 %Abs | RK1:26->G01@3 | |
| MCT Std 3 | 0.648 Abs [0.6505] {0.5 CV} | 0.996 µg/L [0.987] {1.2 CV} | R ² =0.99846, 42.886 %Abs | RK1:26->H01@3 | |
| MCT Std 4 | 0.489 Abs | 1.882 µg/L | R ² =0.99846, 32.363 %Abs | RK1:27->A02@2 | |
| MCT Std 4 | 0.504 Abs [0.4965] {2.1 CV} | 1.755 µg/L [1.819] {4.9 CV} | R ² =0.99846, 33.355 %Abs | RK1:27->B02@2 | |
| MCT Std 5 | 0.335 Abs | > 5.000 µg/L | 22.171 %Abs | RK1:28->C02@2 | |
| MCT Std 5 | 0.318 Abs [0.3265] {3.7 CV} | > 5.000 µg/L | 21.046 %Abs | RK1:28->D02@2 | |
| ***** | | | | | |
| 8/19/2021 11:31:46 AM | | | | | |
| MCT 546 LRB 1 | 1.477 Abs | 0.015 µg/L | 97.750 %Abs | RK1:29->E02@2 | |
| MCT 546 LRB 1 | 1.450 Abs [1.4635] {1.3 CV} | 0.027 µg/L [0.021] {40.4 CV} | 95.963 %Abs [96.856 %Abs] | RK1:29->F02@3 | |
| MCT 546 Low-CV | 1.026 Abs | 0.300 µg/L | 67.902 %Abs | RK1:30->G02@3 | |
| MCT 546 Low-CV | 1.006 Abs [1.0160] {1.4 CV} | 0.320 µg/L [0.310] {4.6 CV} | 66.578 %Abs [67.240 %Abs] | RK1:30->H02@3 | |
| MCT 546 LFB 1 | 0.830 Abs | 0.553 µg/L | 54.931 %Abs | RK1:31->A03@2 | |
| MCT 546 LFB 1 | 0.822 Abs [0.8260] {0.7 CV} | 0.567 µg/L [0.560] {1.8 CV} | 54.401 %Abs [54.666 %Abs] | RK1:31->B03@2 | |
| ***** | | | | | |
| Statistic | | | | | |
| MCT Std 0 [MEAN] | 1.5110 | 0.0030 | | | |
| MCT Std 0 [SD] | 0.0141 | 0.0042 | | | |
| MCT Std 0 [%CV] | 0.9359 | 141.4214 | | | |
| MCT Std 1 [MEAN] | 1.2325 | 0.1390 | | | |
| MCT Std 1 [SD] | 0.0276 | 0.0170 | | | |
| MCT Std 1 [%CV] | 2.2375 | 12.2090 | | | |
| MCT Std 1 [%DIFF] | | -7.3333 | | | |
| MCT Std 2 [MEAN] | 0.9100 | 0.4325 | | | |
| MCT Std 2 [SD] | 0.0212 | 0.0290 | | | |
| MCT Std 2 [%CV] | 2.3311 | 6.7032 | | | |
| MCT Std 2 [%DIFF] | | 8.1250 | | | |
| MCT Std 3 [MEAN] | 0.6505 | 0.9875 | | | |
| MCT Std 3 [SD] | 0.0035 | 0.0120 | | | |
| MCT Std 3 [%CV] | 0.5435 | 1.2173 | | | |
| MCT Std 3 [%DIFF] | | -1.2500 | | | |
| MCT Std 4 [MEAN] | 0.4965 | 1.8185 | | | |

| Name | Absorbance | Concentration | Interpretation | Position |
|-----------------------|------------|---------------|----------------|----------|
| MCT Std 4 [SD] | 0.0106 | 0.0898 | | |
| MCT Std 4 [%CV] | 2.1363 | 4.9383 | | |
| MCT Std 4 [%DIFF] | | -9.0750 | | |
| MCT Std 5 [MEAN] | 0.3265 | | | |
| MCT Std 5 [SD] | 0.0120 | | | |
| MCT Std 5 [%CV] | 3.6817 | | | |
| MCT 546 LRB 1 [MEAN] | 1.4635 | 0.0210 | | |
| MCT 546 LRB 1 [SD] | 0.0191 | 0.0085 | | |
| MCT 546 LRB 1 [%CV] | 1.3045 | 40.4061 | | |
| MCT 546 Low-CV [MEAN] | 1.0160 | 0.3100 | | |
| MCT 546 Low-CV [SD] | 0.0141 | 0.0141 | | |
| MCT 546 Low-CV [%CV] | 1.3919 | 4.5620 | | |
| MCT 546 LFB 1 [MEAN] | 0.8260 | 0.5600 | | |
| MCT 546 LFB 1 [SD] | 0.0057 | 0.0099 | | |
| MCT 546 LFB 1 [%CV] | 0.6848 | 1.7678 | | |

Assay Curve

$y = (A-D)/(1+(x/C)^B) + D$
 Weight: NONE
 A = 1.5153
 B = 1.0101
 C = 0.48696
 D = 0.22701
 R2 coef = 0.99846
 50% = 0.698

