

Adda Microcystins/Nodularins Report

Project: Spicer Group

Submitted to: Emily Short
Organization: Spicer Group
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Email: Emily.short@spicergroup.com
Sample Receipt Date: 23 August 19
Sample Condition: 21.6 °C upon arrival
Report# 190731-190820_City of Seaford
Date Prepared: 26 August 19
Prepared by: Kamil Cieslik

Table 1: Sample analyzed

<u>Description/Site</u>	<u>Collection Date</u>	<u>Collection Time</u>
AG 1	31 July 19	1355
AG 4	31 July 19	1345
AG 5	31 July 19	0950
AG 6	20 August 19	1725

Analytes: Adda Microcystins/Nodularins (Adda MCs/NODs)

Sample Preparation

Water Sample Freeze-Thaw

The samples were received and inverted for 60 seconds to mix. A subset from each sample was removed prior to cell lysis for algal identification purposes. A second subset from each sample was transferred to a 15 mL vial. Three freeze-thaw cycles were employed prior to additional sample preparation and subsequent analysis.

Summary of Results


Table 4: Summary of results in ng/mL

Sample ID	Adda MCs/NODs (ng/mL)
AG 1	ND
AG 4	ND
AG 5	ND
AG 6	ND
MRL (ng/mL)	0.30
Analyst Initials	KC
Date Analyzed	8/26/19

Abbreviations			
NA	Not Applicable	LFSM	Lab Fortified Sample Matrix
MDL	Method Detection Limit	LFSMD	Lab Fortified Sample Matrix Duplicate
MQL	Method Quantification Limit	LD	Lab Duplicate
ND	Not Detected above the MDL	IS	Internal Standard
Blank	Regent Water free from interferences	—	Not Analyzed
LFB	Lab Fortified Blank	MRL	Method Reporting Limit

Interpretations:

Adda microcystins/nodularins were not detected above the MRL in the submitted samples.

Submitted by: 
Mark T. Aubel, Ph.D.
Date: August 26, 2019

*The results in this report relate only to the samples listed above.
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Spicer Group									
ADDA MICROCYSTINS/NODULARINS RESULTS									
Sample ID/ Date Collected	Initial Conc. Factor	Assay Value (ng/mL)	Dilution Factor	Avg. LFB Recovery	Avg. LFSM Recovery	Final Concentration (ng/mL)	Average (ng/mL)		
AG 1 7/31/2019	1x 1x	0.00 0.00	1 1	80%	91%	<0.30 <0.30	ND		
AG 4 7/31/2019	1x 1x	0.00 0.00	1 1	80%	---	<0.30 <0.30	ND		
AG 5 7/31/2019	1x 1x	0.00 0.03	1 1	80%	---	<0.30 <0.30	ND		
AG 6 8/20/2019	1x 1x	0.04 0.06	1 1	80%	---	<0.30 <0.30	ND		

ND = Not detected above MRL
 MRL = 0.30 ng/mL
 LFB = 1.0 ng/mL MC-LR
 LFSM = 1.0 ng/mL MC-LR

Amanda Foss
 Amanda Foss, M.S.
 8/26/2019

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