



ABRAXIS® Microcystins Method 546 Accessory Kit

Product No. 520013

Introduction

In accordance with EPA Method 546, laboratories monitoring water sources for total microcystins and nodularins are required to include specific quality control elements in each analysis batch. The ABRAXIS® Method 546 Accessory Kit provides solutions for use in fulfilling the quality control requirements of the method.

Each accessory kit provides the necessary volume of reagents for use with one ADDA ELISA kit (i.e. two partial plate analysis batches, one entire plate sample analysis batch, or one Initial Demonstration of Capability (IDC) batch).

Storage

Store the solutions refrigerated at 2-8°C. The solutions may be used until the expiration date on the box. Consult local, state, and federal regulations for proper disposal of all reagents.

Reagents Provided

- 1 vial of Method 546 Quality Control Sample (546 QCS), 1.5 mL
- 1 vial of Method 546 Low Range Calibration Verification (Low-CV) Solution, 1.5 mL
- 1 vial of 50 ppb MC-LR Spiking Solution, 3.0 mL

Instructions for Use

The 546 QCS is ready to use and does not require any additional preparation prior to use. It is analyzed with each new lot of calibration standards and with each IDC.

The Low-CV is also ready to use and does not require any preparation prior to use. It is analyzed with every analysis batch.

The 50 ppb MC-LR Spiking Solution is used for the preparation of Laboratory Fortified Blanks (LFB), the Laboratory Fortified Sample Matrix and Laboratory Fortified Sample Matrix Duplicate (LFSM and LFSMD), Initial Demonstration of Capability (IDC) samples, and IDC Minimum Reporting Level (IDC MRL) samples. For detailed instructions on preparing LFB, LFSM/LFSMD, IDC, and IDC MRL samples using the 50 ppb MC-LR Spiking Solution, please see the Gold Standard Diagnostics *Guide for Analyzing UCMR4 Samples in Compliance with EPA Method 546: Determination of Total Microcystins and Nodularins in Drinking Water and Ambient Water by ADDA Enzyme-Linked Immunosorbent Assay*.

Method 546 QCS and Low-CV Recovery Criteria

- 546 QCS (0.6 ppb) ≥ 0.42 ppb to ≤ 0.78 ppb
- 546 Low-CV (0.3 ppb) ≥ 0.15 ppb to ≤ 0.45 ppb

For acceptable recovery criteria for quality control samples prepared using the 50 ppb MC-LR Spiking Solution (LFB, LFSM/LFSMD, IDC, and IDC MRL), please see EPA Method 546 or the Gold Standard Diagnostics *Guide for Analyzing UCMR4 Samples in Compliance with EPA Method 546: Determination of Total Microcystins and Nodularins in Drinking Water and Ambient Water by ADDA Enzyme-Linked Immunosorbent Assay*. A macro for the calculation and evaluation of quality control samples is available from Gold Standard Diagnostics upon request.

General Limited Warranty: Gold Standard Diagnostics warrants the products manufactured by the Company against defects and workmanship when used in accordance with the applicable instructions for a period not to extend beyond the product's printed expiration date. **Gold Standard Diagnostics makes no other warranty, expressed or implied. There is no warranty of merchantability or fitness for a particular purpose**

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