



DHI LAB PRODUCTS

DHI CYANOTOXIN STANDARDS

Spectrally and chromatographically pure cyanotoxin standards

Microcystin-producing cyanobacteria are causing problems in fresh water worldwide. Microcystins are a group of cyclic peptides — hepatotoxins with acute and chronic toxicity. They pose a risk to humans and animals by inhibiting protein phosphatases in the liver. It's therefore crucial to be able to determine the abundance and identity of cyanotoxins when phytoplankton bloom.

STANDARDS FOR MONITORING TOXIC CYANOBACTERIA

We offer standards of all microcystins covered by the ISO standard 20179 (Water Quality — determination of Microcystins) as ready-to-use analytical standards. These are especially suited for calibration of (for example) HPLC when monitoring the presence of toxic cyanobacteria:

- microcystin-LR
- microcystin-RR
- microcystin-YR
- microcystin-LF
- microcystin-LW
- microcystin-LY
- demethylmicrocystin-LR
- demethylmicrocystin-RR
- nodularin



Ready-to-use sealed vials



Nodularia spumigena

The specific concentration of each lot is determined by a spectrophotometer and is shown on the Certificate of Analysis enclosed in the shipment. The concentration is around 3-10 mg/L — highest for microcystin-LR, microcystin-YR and microcystin-RR, nodularin and lowest for microcystin-LF, microcystin-LW, microcystin-LY, demethylmicrocystin-LR and demethylmicrocystin-RR.

The cyanotoxin standards should be stored frozen, thawed prior to use, and be used immediately after opening.

Cyanotoxin standards are shipped under the Global National License (less sensitive products), issued by the Danish Business Authority, and may be subject to restrictions if re-exported.

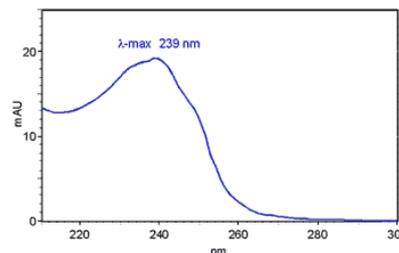
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BENEFITS

- Ready-to-use cyanotoxin standards in sealed vials with a nitrogen atmosphere
- Spectrally and chromatographically pure
- Specially suited for calibration of instruments such as HPLC
- Delivered with a Certificate of Analysis

FEATURES

- Derived from cultures of *Microcystis sp.*
- Various types of microcystins and nodularin dissolved in 100% methanol
- Distributed in 1 mL ready-to-use HPLC vials with nitrogen atmosphere
- Microcystin-LF, microcystin-LW and microcystin-LY are unstable and are shipped in dry ice



Absorption spectrum of microcystin-LR

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