Microcystin LR-RR-YR

from *Microcystis aeruginosa*

Mixed analytical Standard

Product Information

Cat. No.	Amount
MC-LR-RR-YR-a	1 mL (5 µg each/mL)

Product Specifications

Molecular Formulae	MC-LR:	$C_{49}H_{74}N_{10}O_{12}$
	MC-RR:	$C_{49}H_{75}N_{13}O_{12}$
	MC-YR:	$C_{52}H_{72}N_{10}O_{13}$
Molecular Weights	MC-LR:	994.6 g/mol
	MC-RR:	1037.6 g/mol
	MC-YR:	1044.5 g/mol
Purity	>95 % (HPLC)	
Source	*M. aeruginosa* strain	
Form	solution of 5 µg each/mL in methanol	
Shipping	Ambient	
Long Term Storage	- 20°C	
Shelf life	24 months	
Stability	The analytical standard should be used immediately after the vial is opened	

Description

Cyclic heptapeptide toxins isolated from the freshwater cyanobacterium *Microcystis aeruginosa.*[1]

The mixed analytical standard is dissolved in 100% methanol and ready to use for calibration. It is distributed in amber glass vials containing around 5 µg of each microcystin in 1 ml MeOH. The concentration of the microcystins each lot is determined spectrophotometrically, confirmed by HPLC, and stated on the Certificate of Analysis.

For research use only!

Not available for sale to end-users without signing an end-use-certificate as required by German and international law.

[1] Blom et al., High grazer toxicity of [D-Asp3,(E)-Dhb7]-microcystin-RR of *Planktothrix rubescens* as compared to different microcystins, *Toxicon* 2001, 1923-1932

Höger et al., Analytical and Functional Characterization of Microcystins [Asp3]MC-RR and [Asp3,-Dhb7]MC-RR: Consequences for Risk Assessment?, *Environ. Sci. Technol.* 2007, 2609-2616

Cyano Biotech GmbH | Magnusstr. 11 | 12489 Berlin
Tel.: +49-30-63924480 | Fax: +49-30-63924488 | http://www.cyano-biotech.com

Last update: May 15, 2011