**Microcystin LR-RR-YR**
from *Microcystis aeruginosa*

## Mixed analytical Standard

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC-LR-RR-YR-a</td>
<td>1 mL (5 µg each/mL)</td>
</tr>
</tbody>
</table>

### Product Information

**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