

Microcystins from Blue / Green Algae in Drinking Water

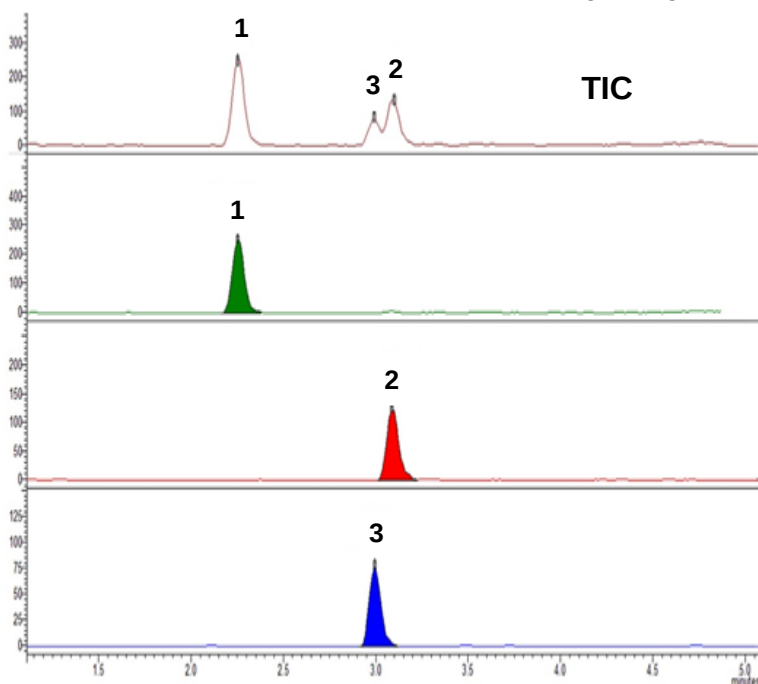
Application #AN1190

Conditions

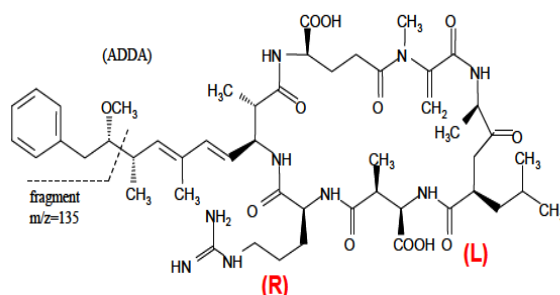
Column: ACE Excel 2 C18
Dimensions: 100 x 2.1 mm
Part Number: EXL-101-1002U
Mobile Phase: A: 0.1% formic acid in H₂O
B: MeCN

Time (mins)	%B
0.0	30
1.0	30
7.0	95
7.1	30
10.0	30

Flow Rate: 0.4 mL/min
Injection: 50 µL
Temperature: 40 °C
Sample: 0.05 ppb
Detection: Bruker EVOQ Elite triple quad MS
VIP heated-ESI temperature: 350 °C
Cone gas temperature: 200 °C
Spray voltage: 4500 V (+)
Collision gas: argon 1.5 mTorr



1. Microcystin RR (MW 1038)
(*m/z* 520 → 135)
2. Microcystin LR (MW 995)
(*m/z* 498 → 135)
3. Microcystin YR (MW 1045)
(*m/z* 523 → 135)



Variants	R	L
Microcystin-LR	Leucine	Arginine
Microcystin-RR	Arginine	Arginine
Microcystin-YR	Tyrosine	Arginine

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