

Antimycins from Marine Sponge *Streptomyces* sp. by LC-HRMS

ACE[®]
Ultra-inert
UHPLC & HPLC Columns

Application #AN4380
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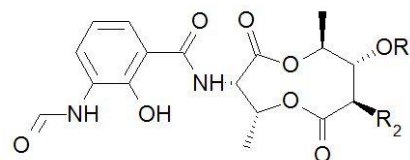
Conditions

Column: ACE 5 C18
Dimensions: 75 x 3.0 mm
Part Number: ACE-121-7503
Mobile Phase: A: 0.1% (v/v) formic acid in H₂O
B: 0.1% (v/v) formic acid in MeCN

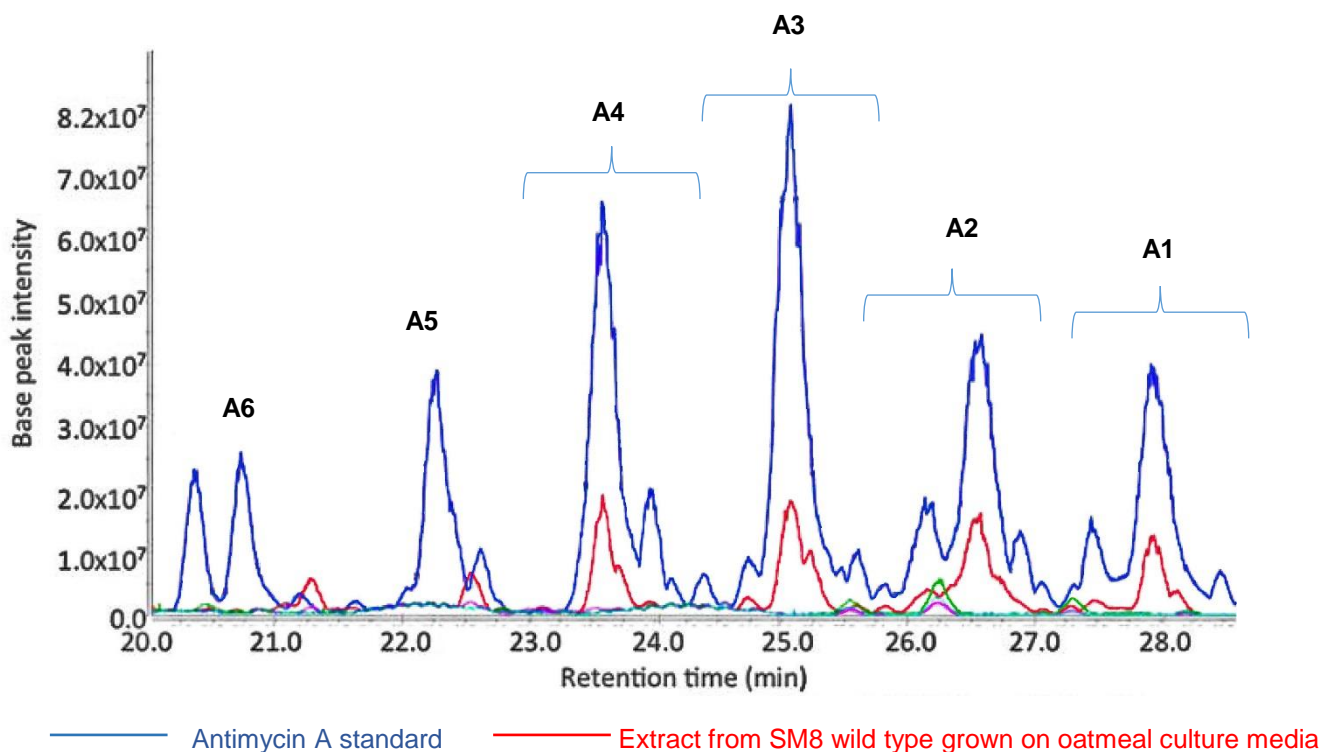
Time (mins)	%B
0	10
30	100
35	100

Flow Rate: 0.3 mL/min
Injection: 10 µL
Detection: Thermo Exactive Orbitrap
High resolution (15,000)
ESI in positive ion mode
Spray Voltage: 4.5 kV
Capillary Temperature: 268 °C
Capillary Voltage: 30 V

Sample: Antifungal fraction from *Streptomyces* sp. SM8 extract from *Haliclona simulans* marine sponge



Antimycin A



Viegelmann C, Margassery LM, Kennedy J, Zhang T, O'Brien C, O'Gara F, Morrissey JP, Dobson ADW, Edrada-Ebel R. Metabolomic profiling and genomic study of a marine sponge-associated *Streptomyces* sp. *Marine Drugs* 12, 3323-3351 (2014). doi:10.3390/md12063323

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ACE[®]
UHPLC & HPLC
Columns

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Antimycin	R ₁	R ₂
A1a	C=OCH(CH ₃)CH ₂ CH ₃	(CH ₂) ₅ CH ₃
A1b	C=OCH ₂ CH(CH ₃) ₂	(CH ₂) ₅ CH ₃
A2a	C=OCH(CH ₃) ₂	(CH ₂) ₅ CH ₃
A2b	C=OCH ₂ CH ₂ CH ₃	(CH ₂) ₅ CH ₃
A3a	C=OCH(CH ₃)CH ₂ CH ₃	(CH ₂) ₃ CH ₃
A3b	C=OCH ₂ CH(CH ₃) ₂	(CH ₂) ₃ CH ₃
A4a	C=OCH(CH ₃) ₂	(CH ₂) ₃ CH ₃
A4b	C=OCH ₂ CH ₂ CH ₃	(CH ₂) ₃ CH ₃
A5	C=OCH ₂ CH(CH ₃) ₂	CH ₂ CH ₃
A6	C=OCH ₂ CH ₂ CH ₃	CH ₂ CH ₃

