

Extraction and Analysis of Metronidazole in Facial Cleansers

Column: Kinetex® 2.6 µm XB-C18 100 Å, LC Column 50 x 2.1 mm, Ea

Dimensions: 50 x 2.1 mm ID

Order No: 00B-4496-AN

Elution Type: Gradient

Eluent A: 0.1% Formic Acid

Eluent B: MeOH

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	95	5
	2	2	60	40
	3	3	60	40
	4	3.1	95	5
	5	5	95	5

Flow Rate: 300

Col. Temp.: 25 °C

Detection: Circular Dichroism @ 0.0000000000 (650 °C)

Analyst Note: SecurityGuard™ ULTRA Guard Cartridge System extends column lifetime.

- SecurityGuard ULTRA Cartridges, UHPLC C18 for 2.1mm ID Columns, 3/Pk Part No.: AJ0-8782

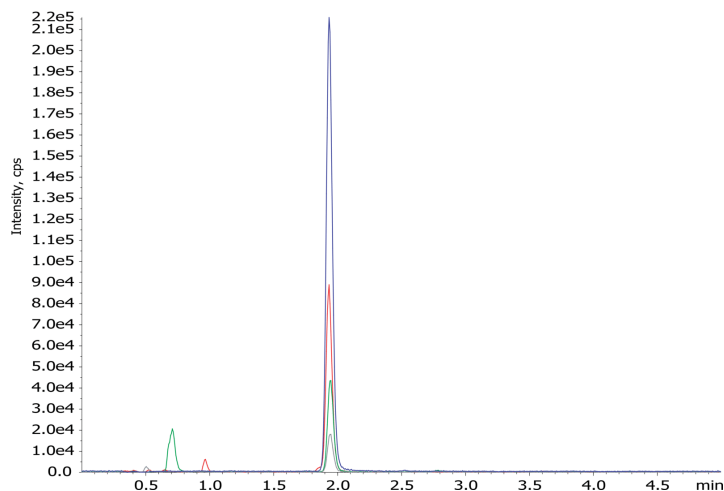
- Holder Part No.: AJ0-9000



Products used in this application:



20631



ANALYTES:

1 Metronidazole

Retention Time: 1.94 min

2 13-C2 15-N-Metronidazole

Retention Time: 1.93 min



Sample Preparation Details

for HPLC Application ID No.: 20631

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PRODUCT DESCRIPTION:

Strata™-X-C 33 µm Polymeric Strong Cation, 30 mg / 3 mL, Tubes , 50/Pk

Order No.: 8B-S029-TBJ

SOLID PHASE EXTRACTION (SPE) PROCEDURE:

Note: The solvent volumes shown below are for a 30 mg bed mass.

The solvent volumes will need to be adjusted for a smaller or larger bed mass.

Condition:

Load:

Wash:

Dry:

5 min under full vacuum

Elute:

Final Prep and Analysis:

Evaporate to dryness at 50 C. Reconstitute in 200 µL of 10:90 MeOH:0.1% Formic Acid

Inject: 0 µL on HPLC Circular Dichroism @ 0.0000000000 (650°C)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 Metronidazole	100				
2 13-C2 15-N-Metronidazole	1000				

Note: This method is designed as a convenient starting point for further investigation and can be tailored to meet your extraction goals.
Call your local Phenomenex Representative for assistance in method development and optimization techniques.

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For more information contact your Phenomenex Representative at support@phenomenex.com



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