HPLC Application

ID No.: 20631

Column:

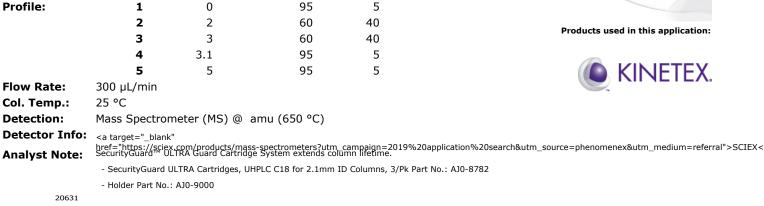
Order No:

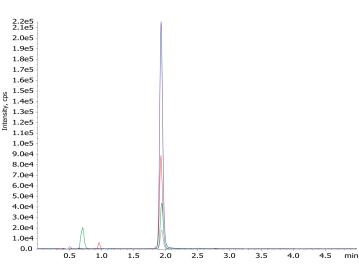
Eluent A:

Eluent B:

Gradient

Extraction and Analysis of Metronidazole in Facial Cleansers Kinetex[®] 2.6 µm XB-C18 100 Å, LC Column 50 x 2.1 mm, Ea 50 x 2.1 mm ID **Dimensions:** Kinetex® 00B-4496-AN Ultra-High Performance Elution Type: Gradient 0.1% Formic Acid MeOH Pct B Step No. Time (min) Pct A 0 95 5 1 2 40 2 60 Products used in this application: 3 3 60 40





ANALYTES:

- 1 Metronidazole
 - Retention Time: 1.94 min
- 2 13-C2 15-N-Metronidazole

Retention Time: 1.93 min

©2025 Phenomenex Inc. All rights reserved.

Phenomenex products are available worldwide.

www.phenomenex.com

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

support@phenomenex.com

ohenomenex

for HPLC Application ID No.: 20631

Extraction and Analysis of Metronidazole in Facial Cleansers

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) PRODCEDURE:

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:

1) Dissolve 0.250g of Neutragena Foaming Face Cleaner With Microclear Technology in 10mLs of 0.1N HCL

2) Vortex to achieve homogenous mixture 3) Centrifuge for 5 minutes at 5000g

4) Load

3mL aliquot of sample

Wash:

Dry:

5 min under full vacuum

Elute:

Final Prep and Analysis:

Evaporate to dryness at 50 C. Reconstitute in 200 uL of 10:90 MeOH:0.1% Formic Acid Inject: 10 µL on HPLC Mass Spectrometer (MS) @ amu (650°C)

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

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

Phenomenex products are available worldwide.

www.phenomenex.com

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

