HPLC Application

ID No.: 20586



Underivatized MMA and Succinic Acid in Human Urine on Gemini C18, 3u, 100x3 mm

Gemini® 3 µm C18 110 Å, LC Column 100 x 3 mm, Ea

100 x 3 mm ID **Dimensions:** Order No: 00D-4439-Y0 Elution Type: Gradient

Eluent A: 0.1% Formic Acid in DI H2O

0.1% Formic Acid + 10 mM Ammonium Formate in MeOH Eluent B:

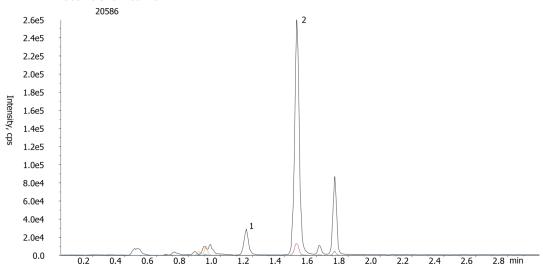
Gradient	Step No.	Time (min)	Pct A	Pct B
Profile:	1	0	85	15
	2	1.5	5	95
	3	2.5	5	95
	4	2.51	85	15
	5	4.5	85	15

700 Flow Rate: Col. Temp.: 40 °C

Detection: Circular Dichroism @ 0.000000000 (ambient) SecurityGuard™ Guard Cartridge System extends column lifetime. Analyst Note:

- SecurityGuard Cartridges, Gemini C18 4 x 2.0mm ID, 10/Pk Part No.: AJ0-7596





ANALYTES:

Succinic acid

Retention Time: 1.16 min

2 Methylmalonic acid

Retention Time: 1.48 min



Products used in this application:



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Sample Preparation Details for HPLC Application ID No.: 20586



Underivatized MMA and Succinic Acid in Human Urine on Gemini C18, 3u, 100x3 mm

PRODUCT DESCRIPTION:

Strata™-X-AW 33 µm Polymeric Weak Anion, 30 mg / 1 mL, Tubes , 100/Pk

Order No.: 8B-S038-TAK

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:	
Into individually labeled 1.5 mL conical micro-centrifuge tubes combine 0.5 mL 25 mM Ammonium formate, 50	uL IS and 100 uL blank, standard, or sample
Wash:	_
Dry:	
Dry under high vacuum for 5-10 min	-
Elute:	_
Final Prep and Analysis:	_
This method is for the analysis of underivatized MMA.	
Inject: 10 μL on HPLC Circular Dichroism @ 0.0000000000 (ambient)	

ANALYTES:	Spiked Conc.	Log P	рКа	% Rec	%RSC
	(ng/mL)				(n=0)
1 Succinic acid	0				
2 Methylmalonic acid	0				

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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