HPLC Application ID No.: **25782**



Chiral Separation of Dextromethorphan/Levomethorphan and Dextrorphan/Levorphanol on Lux 3u AMP, 150x4.6

Lux® 3 µm AMP, LC Column 150 x 4.6 mm, Ea

150 x 4.6 mm ID **Dimensions:** Order No: 00F-4751-E0 **Elution Type:** Gradient

5mM ammonium bicarbonate, adjusted to pH 11 with ammonium hydroxide Eluent A:

Eluent B:

Gradient	Step No.	Time (min)	Pct A	Pct B
Profile:	1	0	55	45
	2	4.5	55	45
	3	4.6	20	80
	4	8	20	80
	5	8.1	55	45
	6	10	55	45

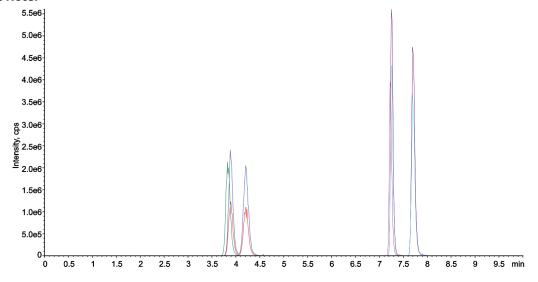
Products used in this application:



Flow Rate: 1 mL/min 40 °C Col. Temp.:

Detection: LC/MS/MS @ (ambient)

Urine hydrolyzed with beta-glucuronidase and extracted with Strata-X-C Analyst Note:



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ANALYTES:

- 1 Dextrorphan-D3
- 2 Dextrorphan 1
- 3 Dextrorphan 2
- Levorphanol 1 4
- 5 Levorphanol 2
- 6 Dextromethorphan-D3
- 7 Dextromethorphan 1
- 8 Dextromethorphan 2
- 9 Levomethorphan 1
- 10 Levomethorphan 2

Sample Preparation Details for HPLC Application ID No.: 25782



Chiral Separation of Dextromethorphan/Levomethorphan and Dextrorphan/Levorphanol on Lux 3u AMP, 150x4.6

PRODUCT DESCRIPTION:

Strata™-X-C 33 µm Polymeric Strong Cation, 30 mg / well, 96-Well Plates , 2/Pk

Order No.: 8E-S029-TGB

SOLID PHASE EXTRACTION (SPE) PRODCEDURE:

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

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

Condition:	
Load:	
Wash:	
Dry:	
Elute:	
Final Prep and Analysis:	
Urine sample pretreatment: Combine 200 μ L urine sample, 200 μ L 100mM ammonium buffer (pH 4.0), 20 μ L internal standard solution (250ng/mL), and 20 μ L of beta-glucum	

Inject: 10 µL on HPLC LC/MS/MS @ (ambient)

ANALYTES:		Spiked Conc. (ng/mL)	Log P	рКа	% Rec	%RSC (n=0)
1	Dextrorphan-D3	0				
2	Dextrorphan 1	0				
3	Dextrorphan 2	0				
4	Levorphanol 1	0				
5	Levorphanol 2	0				
6	Dextromethorphan-D3	0				
7	Dextromethorphan 1	0				
8	Dextromethorphan 2	0				
9	Levomethorphan 1	0				
10	Levomethorphan 2	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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For more information contact your Phenomenex Representative at support@phenomenex.com



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