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

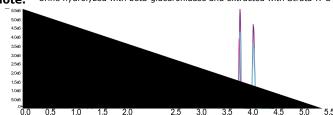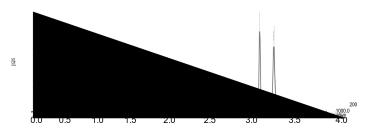|	
Column:	Lux® 3 µm AMP, LC Column 150 x 4.6 mm, Ea
Dimensions:	150 x 4.6 mm ID
Order No:	00F-4751-E0
Elution Type:	Gradient
Eluent A:	5mM ammonium bicarbonate, adjusted to pH 11 with ammonium hydroxide
Eluent B:	Acetonitrile

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	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

Flow Rate:	1 mL/min
Col. Temp.:	40 °C
Detection:	LC/MS/MS @ (ambient)
Analyst Note:	Urine hydrolyzed with beta-glucuronidase and extracted with Strata-X-C

Products used in this application:

LUX
SIMPLIFIED CHIRAL SEPARATIONS

ANALYTES:

1 Dextrorphan 1
Retention Time: 3.85 min

2 Dextrorphan 2
Retention Time: 3.85 min

3 Levorphanol 1
Retention Time: 4.17 min

4 Levorphanol 2
Retention Time: 4.17 min

5 Dextromethorphan 1
Retention Time: 7.24 min

6 Dextromethorphan 2
Retention Time: 7.24 min

7 Levomethorphan 1
Retention Time: 7.69 min

8 Levomethorphan 2
Retention Time: 7.69 min

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

[⊕] Phenomenex products are available worldwide.

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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 200µL urine sample, 200µL 100mM ammonium acetate buffer (pH 4.0), 20µL internal standard solution (250ng/mL), and 20µL of beta-glucuronidase

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

ANALYTES:	**Spiked Conc. (ng/mL)**	**Log P**	**pKa**	**% Rec**	**%RSC (n=0)**
1 Dextrorphan 1	0				
2 Dextrorphan 2	0				
3 Levorphanol 1	0				
4 Levorphanol 2	0				
5 Dextromethorphan 1	0				
6 Dextromethorphan 2	0				
7 Levomethorphan 1	0				
8 Levomethorphan 2	0				

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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