

APPLICATION

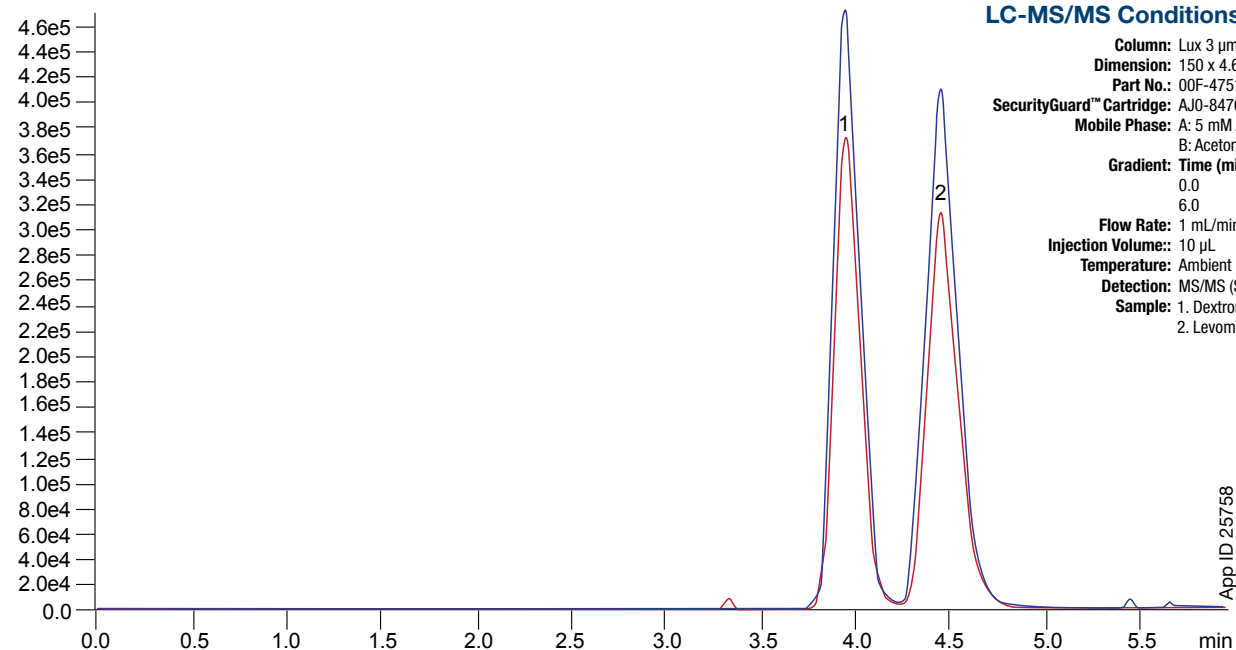
Chiral Separation of Dextromethorphan and Levomethorphan using a Lux[®] AMP Chiral LC Column

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Overview

Using a Lux AMP Chiral LC column, dextromethorphan and levomethorphan were successfully separated in under 5 minutes using a LC-MS/MS friendly mobile phase.

Compound	Retention time (min)	Concentration (ng/mL)	Q1 m/z	Q3 m/z	Neg/Pos mode
Dextromethorphan 1	3.96	50	272	215	Pos
Dextromethorphan 2	3.96	50	272	147	Pos
Levomethorphan 1	4.46	50	272	215	Pos
Levomethorphan 2	4.46	50	272	147	Pos



LC-MS/MS Conditions

Column: Lux 3 μ m AMP
Dimension: 150 x 4.6 mm
Part No.: 00F-4751-E0
SecurityGuard[™] Cartridge: AJO-8476
Mobile Phase: A: 5 mM Ammonium bicarbonate, pH 11
 B: Acetonitrile
Gradient: Time (min) % B
 0.0 80
 6.0 80
Flow Rate: 1 mL/min
Injection Volume: 10 μ L
Temperature: Ambient
Detection: MS/MS (SCIEX Triple Quad[™] 4500)
Sample: 1. Dextromethorphan
 2. Levomethorphan

App ID 25758

Revision: 0
PHEN-RUO-00095

APPLICATION

Lux[®] AMP Chiral LC Column Ordering Information

3 µm Analytical Columns (mm)		SecurityGuard [™] Cartridges (mm)		
Phase	150 x 3.0	150 x 4.6	4 x 2.0*	4 x 3.0*
AMP	00F-4751-Y0	00F-4751-E0	AJ0-8475 10/pk for ID: 2.0 - 3.0 mm	AJ0-8476 10/pk 3.2 - 8.0 mm

*SecurityGuard Analytical Cartridges require holder, Part No.: KJ0-4282

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