HPLC Application

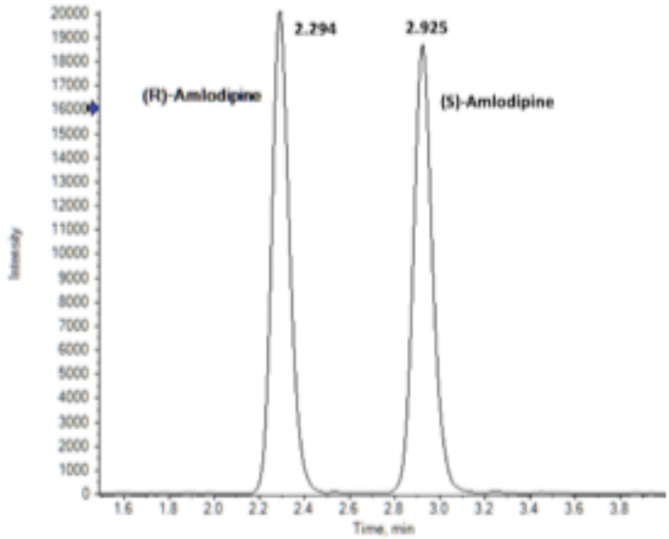
ID No.: **25530**

LC-MS/MS Chromatogram for Amlodipine Enantiomers on Lux Cellulose-4

Column: Lux® 3 µm Cellulose-4, LC Column 150 x 2 mm, Ea
Dimensions: 150 x 2 mm ID
Order No: 00F-4490-B0
Elution Type: Gradient
Eluent A: 0.05% Ethanolamine in Acetonitrile and Isopropyl Alcohol (96:4 v/v)

Gradient Profile:	**Step No.**	**Time (min)**	**Pct A**
	1	0	100
	2	4	100

Flow Rate: 0.3 mL/min
Col. Temp.: 25 °C
Detection: LC/MS/MS @ m/z (mass per charge) (ambient)



Products used in this application:

LUX SIMPLIFIED CHIRAL SEPARATIONS

ANALYTES:

1 (R)-Amlodipine
Retention Time: 2.294 min

2 (S)-Amlodipine
Retention Time: 2.925 min

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

Phenomenex products are available worldwide.

Sample Preparation Details

for **HPLC** Application ID No.: **25530**

LC-MS/MS Chromatogram for Amlodipine Enantiomers on Lux Cellulose-4

PRODUCT DESCRIPTION:

Strata™-X 33 µm Polymeric Reversed Phase, 30 mg / 1 mL, Tubes , 100/Pk

Order No.: 8B-S100-TAK

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:

5 µL of internal standard working solution was added to 100 µL spiked human plasma (spiked at 0.050, 0.150, 20.0, 40.0, and 50.0 ng/mL) and mixed, 500 µL of 0.2% (v/v) Ethanolamine in water was added to sample and vortexed.

Wash:

Dry:

Elute:

Final Prep and Analysis:

Inject: 10 µL on HPLC LC/MS/MS @ m/z (mass per charge) (ambient)

ANALYTES:	Spiked Conc. (ng/mL)	Log P	pKa	% Rec	%RSC (n=0)
1 (R)-Amlodipine	0				
2 (S)-Amlodipine	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.*