

## 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% Ethanamine in Acetonitrile and Isopropyl Alcohol (96:4 v/v)  
**Gradient**

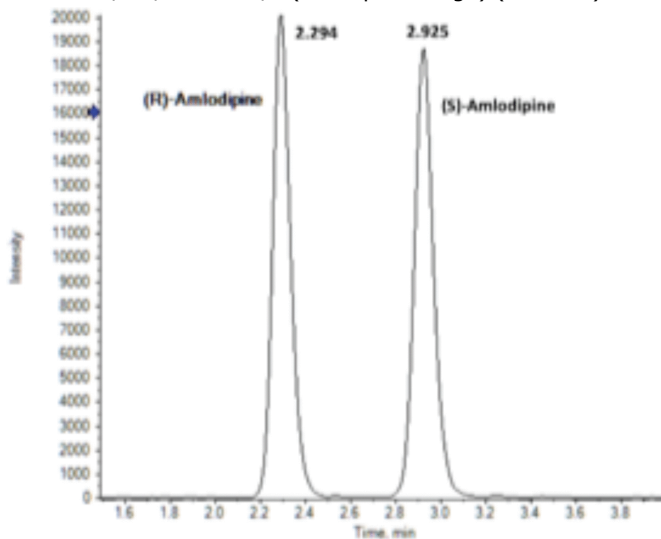
Step No.	Time (min)	Pct A
1	0	100
2	4	100

**Profile:**

**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:



### ANALYTES:

- 1 (R)-Amlodipine  
Retention Time: 2.294 min
- 2 (S)-Amlodipine  
Retention Time: 2.925 min



# 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) PROCEDURE:

**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:

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### Load:

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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:

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### Dry:

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### Elute:

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### Final Prep and Analysis:

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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.

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