

# HPLC Application

ID No.: 19573

## Tricyclic Antidepressant on Kinetex XB-18 by LC/MS/MS

**Column:** Kinetex® 2.6 µm XB-C18 100 Å, LC Column 50 x 2.1 mm, Ea

**Dimensions:** 50 x 2.1 mm ID

**Order No:** 00B-4496-AN

**Elution Type:** Gradient

**Eluent A:** 0.1% Aq Formic Acid

**Eluent B:** 100% Methanol

| Gradient Profile: | Step No. | Time (min) | Pct A | Pct B |
|-------------------|----------|------------|-------|-------|
|                   | 1        | 0          | 85    | 15    |
|                   | 2        | 3          | 40    | 60    |
|                   | 3        | 4          | 40    | 60    |
|                   | 4        | 4.1        | 10    | 90    |
|                   | 5        | 5          | 10    | 90    |
|                   | 6        | 5.1        | 85    | 15    |

**Flow Rate:** 0.4 mL/min

**Col. Temp.:** ambient

**Detection:** Mass Spectrometer (MS) @ amu (ambient)

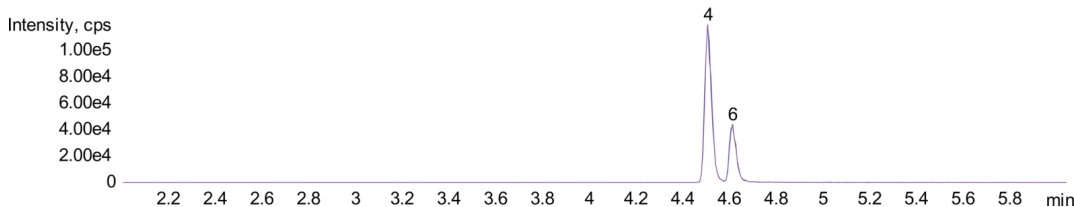
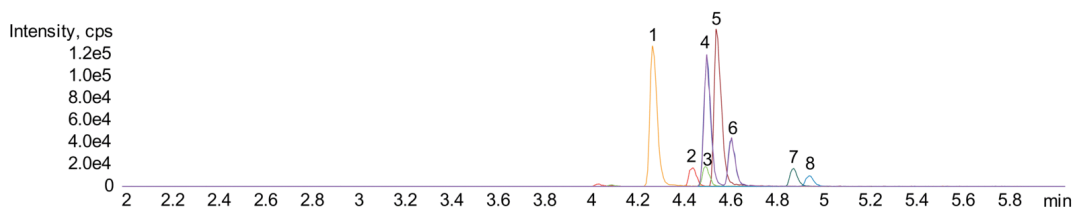
**Detector Info:** <a target="\_blank"

href="http://sciex.com/products/mass-spectrometers?utm\_campaign=2019%20application%20search&utm\_source=phenomenex&utm\_medium=referral">SCIEX<

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Products used in this application:



### ANALYTES:

- 1** Amoxapine  
Retention Time: 4.27 min
- 2** Imipramine  
Retention Time: 4.44 min
- 3** Desipramine  
Retention Time: 4.5 min
- 4** Protriptyline  
Retention Time: 4.5 min
- 5** Amitriptyline  
Retention Time: 4.54 min
- 6** Nortriptyline  
Retention Time: 4.61 min
- 7** Clomipramine  
Retention Time: 4.87 min
- 8** Desmethyl clomipramine  
Retention Time: 4.94 min

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For more information contact your Phenomenex Representative at [info@phenomenex.com](mailto:info@phenomenex.com)



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