

# HPLC Application

ID No.: 19506

## Ranitidine(Degraded) by HPLC - Luna 3µm C8(2) 100x4.6mm

**Column:** Luna® 3 µm C8(2) 100 Å, LC Column 100 x 4.6 mm, Ea

**Dimensions:** 100 x 4.6 mm ID

**Order No:** 00D-4248-E0

**Elution Type:** Gradient

**Eluent A:** 98:2 40mM potassium phosphate pH 7.1:Acetonitrile

**Eluent B:** 78:22 40mM potassium phosphate pH 7.1:Acetonitrile

<b>Gradient Profile:</b>	<b>Step No.</b>	<b>Time (min)</b>	<b>Pct A</b>	<b>Pct B</b>
	<b>1</b>	0	100	0
	<b>2</b>	10	0	100
	<b>3</b>	15	0	100
	<b>4</b>	16	100	0
	<b>5</b>	20	100	0

**Flow Rate:** 1.5 mL/min

**Col. Temp.:** 35 °C

**Detection:** UV-Vis Abs.-Diode Array (PDA) @ 230 amu (ambient)

**Analyst Note:** SecurityGuard™ Guard Cartridge System extends column lifetime.

- SecurityGuard Cartridges, C8 4 x 3.0mm ID, 10/Pk Part No.: AJ0-4290

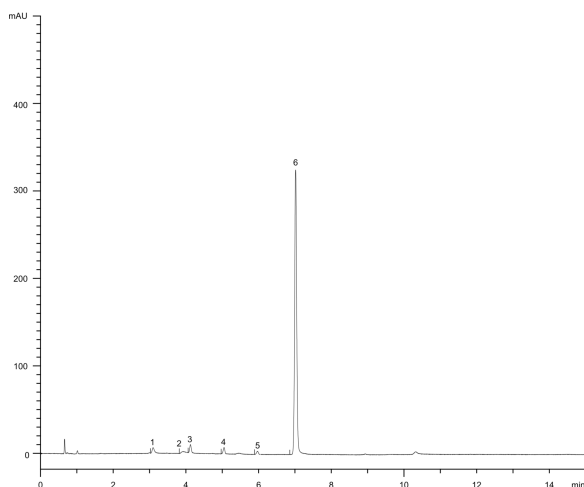
- Holder Part No.: KJ0-4282



Products used in this application:



19506



### ANALYTES:

- 1** Ranitidine amino alcohol hemifumarate  
Retention Time: 3.096 min
- 2** Ranitidine diamine hemifumarate  
Retention Time: 3.926 min
- 3** Ranitidine S-oxide  
Retention Time: 4.12 min
- 4** Ranitidine N-oxide  
Retention Time: 5.043 min
- 5** Ranitidine complex nitroacetamide  
Retention Time: 5.969 min
- 6** Ranitidine  
Retention Time: 7.018 min

