

# HPLC Application

ID No.: 15657

## Caffeine & Metabolites, pH 4.5 - Luna 5µm C18(2)

**Column:** Luna® 5 µm C18(2) 100 Å, LC Column 150 x 4.6 mm, Ea

**Dimensions:** 150 x 4.6 mm ID

**Order No:** 00F-4252-E0

**Elution Type:** Gradient

**Eluent A:** 20mM Ammonium acetate, pH 4.5

**Eluent B:** Acetonitrile

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	98	2
	2	15	80	20

**Flow Rate:** 1 mL/min

**Col. Temp.:** 25 °C

**Detection:** UV-Vis Abs.-Variable Wave.(UV) @ 273 nm (25 °C)

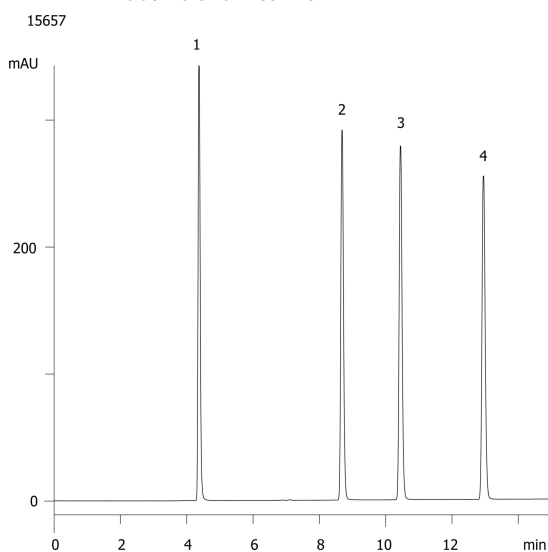
**Analyst Note:** SecurityGuard™ Guard Cartridge System extends column lifetime.

- SecurityGuard Cartridges, C18 4 x 3.0mm, 10/Pk Part No.: AJ0-4287

- Holder Part No.: KJ0-4282



Products used in this application:



### ANALYTES:

- 1** Xanthine  
Retention Time: 4.369 min
- 2** Theobromine  
Retention Time: 8.683 min
- 3** Theophylline  
Retention Time: 10.45 min
- 4** Caffeine  
Retention Time: 12.95 min

