

# HPLC Application

ID No.: 15012

## Caffeine & Metabolites, pH 10.0

**Column:** Gemini<sup>®</sup> 5  $\mu$ m C18 110 Å, LC Column 150 x 4.6 mm, Ea

**Dimensions:** 150 x 4.6 mm ID

**Order No:** 00F-4435-E0

**Elution Type:** Gradient

**Eluent A:** 20mM NH<sub>4</sub>HCO<sub>3</sub>, pH 10.0

**Eluent B:** Acetonitrile

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	8	98	2
	2	7	80	20

**Flow Rate:** 1 mL/min

**Col. Temp.:** 25 °C

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

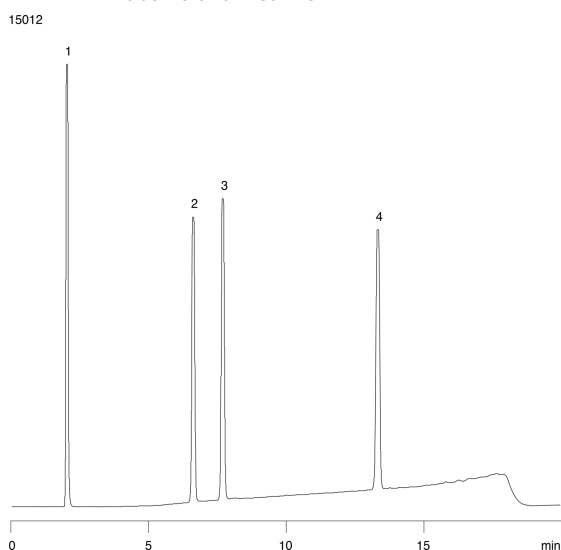
**Analyst Note:** SecurityGuard<sup>™</sup> Guard Cartridge System extends column lifetime.

- SecurityGuard Cartridges, Gemini C18 4 x 3.0mm, 10/Pk Part No.: AJ0-7597

- Holder Part No.: KJ0-4282



Products used in this application:



### ANALYTES:

- 1** Xanthine  
Retention Time: 2.044 min
- 2** Theobromine  
Retention Time: 11.996 min
- 3** Theophylline  
Retention Time: 13.479 min
- 4** Caffeine  
Retention Time: 17.053 min

