

## Caffeine & Metabolites, pH 10.0

**Column:** Gemini® 5 µm 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)

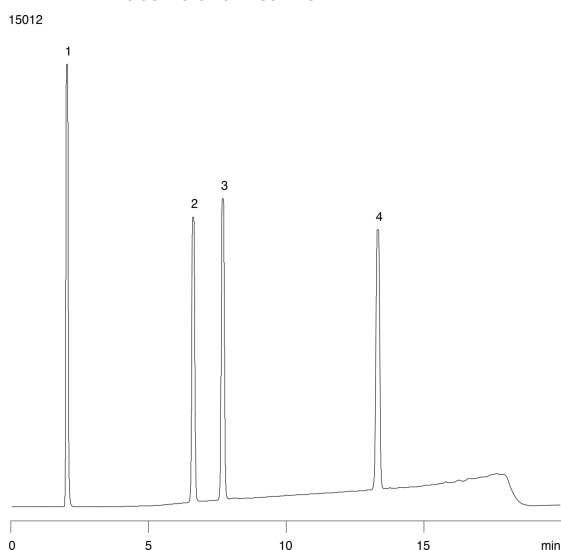
**Analyst Note:** SecurityGuard™ Guard Cartridge System extends column lifetime.

- 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

