

# HPLC Application

ID No.: 15658

## Caffeine & Metabolites, pH 4.5 (Synergi 4µm Fusion-RP)

**Column:** Synergi™ 4 µm Fusion-RP 80 Å, LC Column 150 x 4.6 mm, Ea

**Dimensions:** 150 x 4.6 mm ID

**Order No:** 00F-4424-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

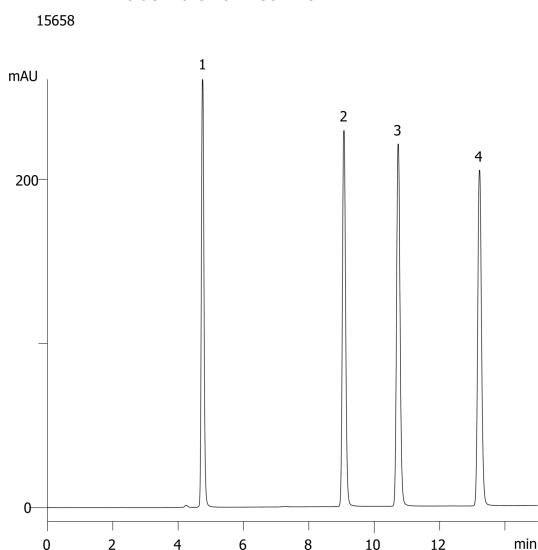
**Col. Temp.:** 25 °C

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

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

- SecurityGuard Cartridges, Fusion-RP 4 x 3.0mm, 10/Pk Part No.: AJ0-7557

- Holder Part No.: KJ0-4282



### ANALYTES:

- 1** Xanthine  
Retention Time: 4.746 min
- 2** Theobromine  
Retention Time: 9.071 min
- 3** Theophylline  
Retention Time: 10.73 min
- 4** Caffeine  
Retention Time: 13.22 min

