

# HPLC Application

ID No.: 12472

## Diphenhydramine and impurity

**Column:** Synergi<sup>™</sup> 4  $\mu$ m Max-RP 80 Å, LC Column 150 x 4.6 mm, Ea

**Dimensions:** 150 x 4.6 mm ID

**Order No:** 00F-4337-E0

**Elution Type:** Isocratic

**Eluent A:** Methanol

**Eluent B:** Acetonitrile

**Eluent C:** 20mM Potassium phosphate pH 7

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B	Pct C
1	1	0	30	40	30

**Flow Rate:** 1 mL/min

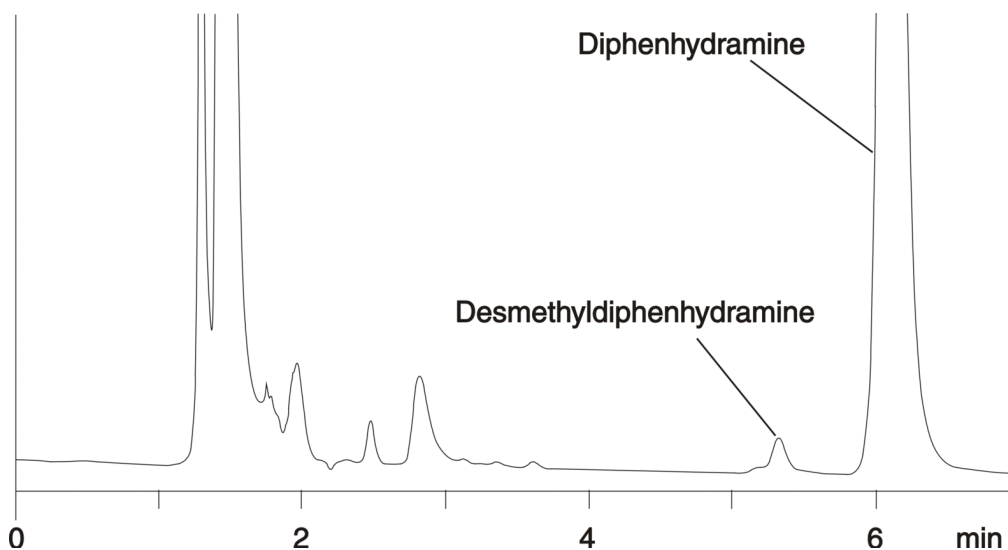
**Col. Temp.:** ambient

**Detection:** UV-Vis Abs.-Variable Wave.(UV) @ 210 nm (ambient)

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

- SecurityGuard Cartridges, C12 4 x 3.0mm, 10/Pk Part No.: AJ0-6074

- Holder Part No.: KJ0-4282



### ANALYTES:

- 1 Desmethyldiphenhydramine
- 2 Diphenhydramine

