

## Isocratic Separation of a Cold Mix on Gemini C18 (69% MeOH)

**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:** Isocratic

**Eluent A:** 10 mM Phosphate Buffer, pH 2.5

**Eluent B:** Methanol

**Eluent C:** Acetonitrile

| Gradient Profile: | Step No. | Time (min) | Pct A | Pct B | Pct C |
|-------------------|----------|------------|-------|-------|-------|
| 1                 | 1        | 20         | 60    | 24    | 16    |

**Flow Rate:** 1 mL/min

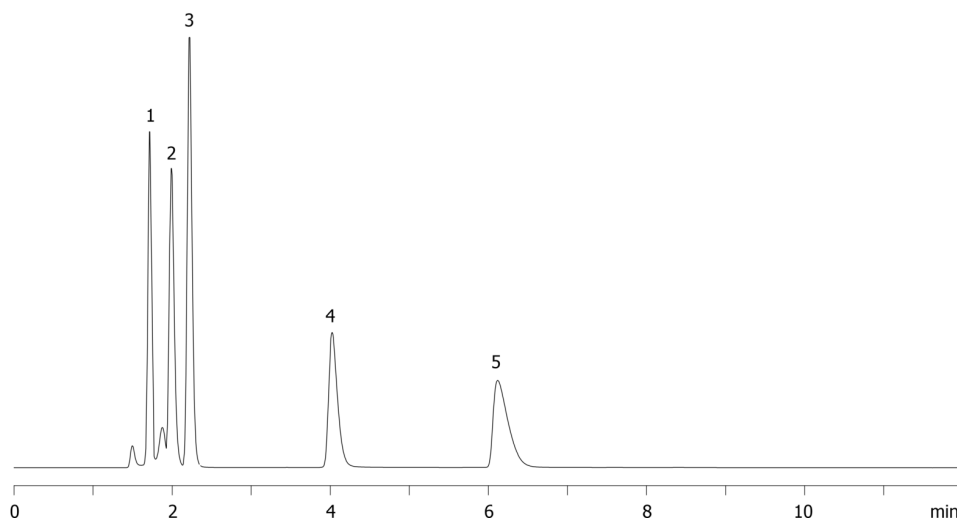
**Col. Temp.:** ambient

**Detection:** Refractive Index @ 0.0000000000 (ambient)

**Analyst Note:** Isocratic separation of four analytes in cold remedy on Gemini C18: Phenylephrine, Acetaminophen, Chlorpheniramine and Dextromethorphan and impurity of Maleic acid



Products used in this application:



### ANALYTES:

- 1** Phenylephrine  
Retention Time: 1.715 min
- 2** Maleic acid  
Retention Time: 1.999 min
- 3** Acetaminophen  
Retention Time: 2.219 min
- 4** Chlorpheniramine  
Retention Time: 4.021 min
- 5** Dextromethorphan  
Retention Time: 6.116 min

