

## Flow Gradient Separation of a Cold Mix on Gemini C18

**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:** 10 mM Phosphate Buffer, pH 5.0

**Eluent B:** Methanol

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	60	40
	2	3.9	60	40
	3	3.91	60	40
	4	10	60	40

**Flow Rate:** 0.8 mL/min

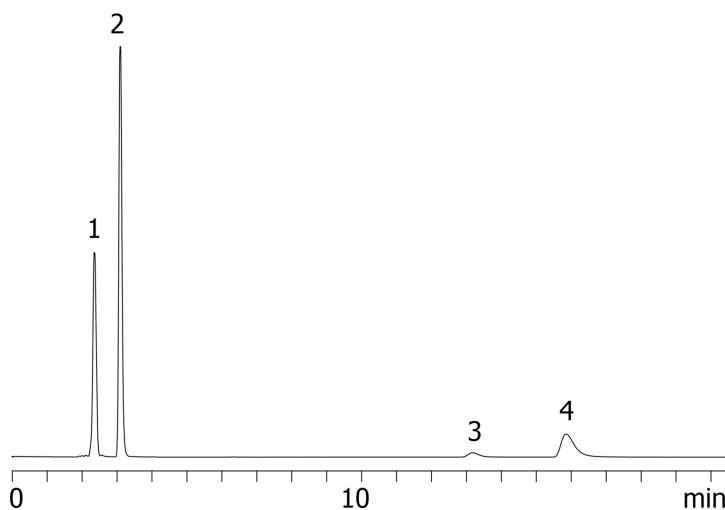
**Col. Temp.:** ambient

**Detection:** UV-Vis Abs.-Diode Array (PDA) @ 280 nm (ambient)

**Analyst Note:** Flow gradient separation of four analytes in cold remedy on Gemini C18: Phenylephrine, Acetaminophen, Chlorpheniramine and Dextromethorphan and impurity of Maleic acid.  
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Products used in this application:



### ANALYTES:

- 1 Phenylephrine  
Retention Time: 2.352 min
- 2 Acetaminophen  
Retention Time: 3.09 min
- 3 Chlorpheniramine  
Retention Time: 13.175 min
- 4 Dextromethorphan  
Retention Time: 15.854 min

