

# HPLC Application

ID No.: 23036

## Cold medicine compounds on Kinetex 2.6 μm EVO C18

**Column:** Kinetex<sup>®</sup> 2.6μm EVO C18 100 Å, LC Column 100 x 4.6 mm, Ea

**Dimensions:** 100 x 4.6 mm ID

**Order No:** 00D-4725-E0

**Elution Type:** Gradient

**Eluent A:** 0.1% TFA in Water

**Eluent B:** 0.1% TFA in ACN

Gradient Profile:	Step No.	Time (min)	Pct A	Pct B
	1	0	98	2
	2	6	70	30
	3	11	0	100

**Flow Rate:** 1.25 mL/min

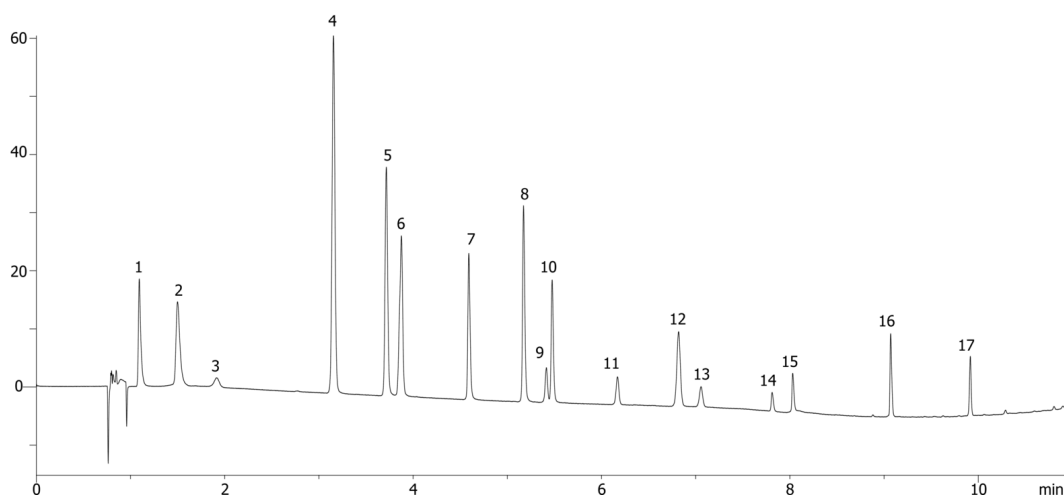
**Col. Temp.:** ambient

**Detection:** UV-Vis Abs.-Variable Wave.(UV) @ 254 nm (ambient)

**Analyst Note:** Forced degradation protocol:

Reconstitute 1 mg of cefaclor neat standard with 1.0 mL of 1 M HCl. Heat the solution at 60 °C for 6 hours then neutralize with 1.0 mL of 1 M NaOH. Refrigerate until ready to inject.

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Products used in this application:



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### ANALYTES:

- 1 Maleic acid
- 2 Fumaric acid
- 3 Phenylephrine
- 4 Acetaminophen
- 5 Pheniramine
- 6 Doxylamine
- 7 Pyrilamine
- 8 Chlorpheniramine
- 9 Guaifenesin
- 10 Brompheniramine
- 11 Acetylsalicylic acid
- 12 4-Nitrophenol
- 13 Impurity
- 14 Dextromethorphan
- 15 Diphenhydramine
- 16 Clemastine
- 17 Ibuprofen

