

Ingredients in cough syrup

Method

Column:

VPH0001J

HPLC

ProntoSIL 120-5 C18 ace-EPS 250 x 4 mm

Order No. 25DF18APSJ

Eurospher 100-5 C18 250 x 4 mm

25DE181ESJ 25DF180PSJ

ProntoSIL 120-5-C18 SH 250 x 4 mm

ProntoSIL 120-5 C18

Phase:

Eurospher 100-5 C18 ProntoSIL 120-5-C18 SH

Conditions:

Eluent: Water/MeOH (70:30, v/v) with 0.1% TFA (pH 1.85)

Gradient: Isocratic
Flow rate: 0.8 ml/min
Temperature: 40 °C
Volume: 5 µL

Detection:

UV, Codeine / Pseudoephedrine λmax 210nm

Guaifenesin λmax 220nm

Sample pretreatment:

The sample preparation is very simple and only needs a dilution step. For the analysis of the cough syrup the original sample was diluted 1:25 with HPLC eluent. It is recommendable to

filtrate the sample with a 0.45 µm syringe filter unit.

Substances: Guaifenesin, Codeine, Pseudoephedrine

Keywords: Cough syrup, Guaifenesin, Codeine, Pseudoephedrine

Chromatogram:

Overlays of standard (red) and diluted sample (blue) on the ProntoSil 120-5 C18 ace-EPS phase

- 1 Codein
- 2 unknown peak
- 3 Pseudoephedrine
- 4 Guaifenesin

