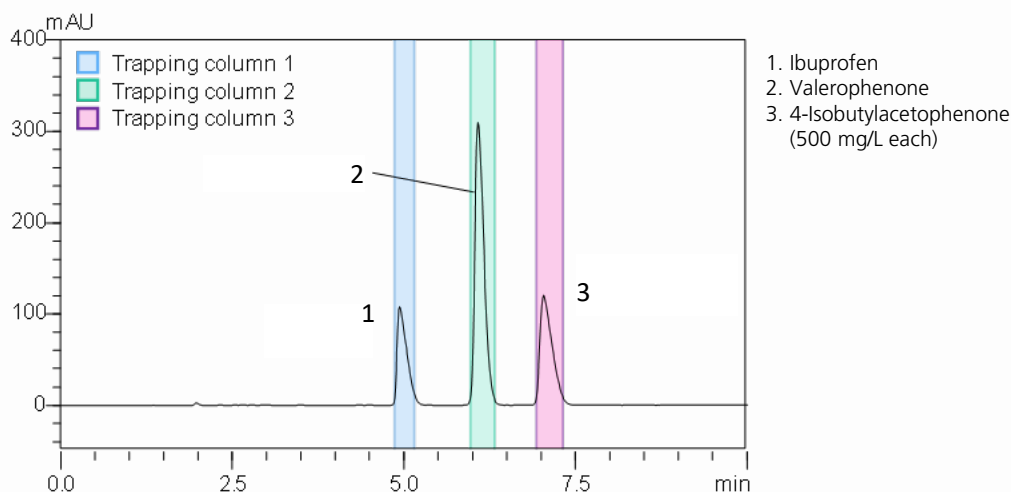


CoreFocus
Report
No.123

PREP Reversed-phase Shim-pack Series

Shim-pack™ VP-ODS and Shim-pack C2P-H
Preparative Purification of Ibuprofen
and Its Related Substance

Keywords: NSAIDs, anti-inflammatory, cold medicine



Preparative LC conditions

System : Prominence UFPLC™
 Column : Shim-pack VP-ODS, (250 mm L. × 10.0 mm I.D., 5 μm), P/N : 228-36849-94
 Mobile phase : A : 1 % (wt/v) Chloroacetic acid aq. sol.
 (pH 3.0 adjusted with ammonium hydroxide)
 B : Acetonitrile
 A/B = 2/3 (v/v)
 Flow rate : 9.0 mL/min
 Column temp. : Ambient
 Injection vol. : 100 μL
 Detection : UV 230 nm (Prep cell)

Rinse conditions

Column : Shim-pack C2P-H, (30 mm L. × 20 mm I.D., 25 μm), P/N : 228-59932-91
 Rinse solvent : A: 2 % (v/v) Acetonitrile aq. sol., B: water
 Time program : A 15 mL/min (0-2 min) -> A 8 mL/min (2.01-4 min) -> B 8 mL/min (4.01-8 min)

Elution conditions

Eluent : Acetonitrile
 Flow rate : 4.5 mL/min
 Detection : UV 230 nm (prep cell)

Source : Application News L526 ([JP](#), [ENG](#))

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