

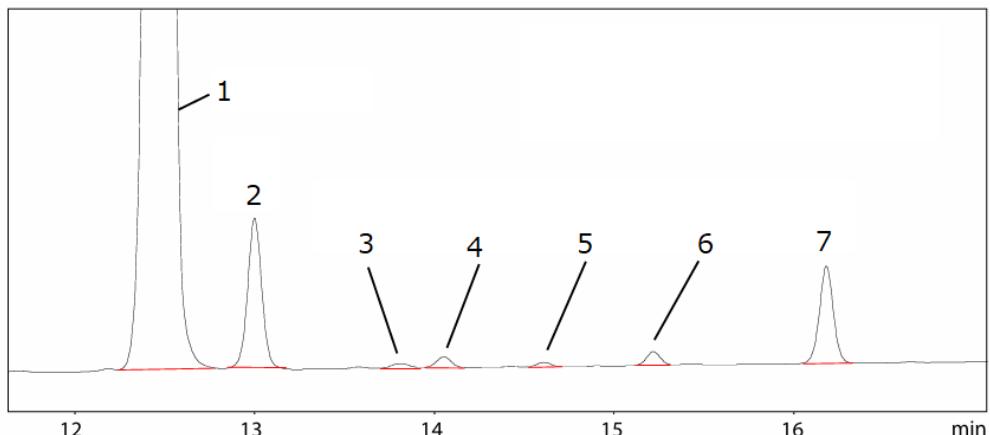
CoreFocus
Report

No.575

LC-MS Reversed-phase Shim-pack™ Series

Shim-pack Scepter™ Phenyl-120
Analysis of Pharmaceutical Impurities

Keywords: Montelukast, pharmaceutical impurities



[HPLC conditions] (Nexera™ X3) (Method Scouting System)

Column : Shim-pack Scepter Phenyl-120,
 100 mm x 3.0 mm I.D., 1.9 μ m¹
Mobile phases : A) 0.15 % Formic acid in water
 : B) 0.1 % formic acid in acetonitrile
Time program : B Conc. 45 % (0 - 3 min) → 75 % (13
 min)
 →45 %(13.01 - 18 min)
Column temp. : 30 °C
Flow rate : 0.5 mL/min
Injection vol. : 10 μ L (1000 mg/L)
Detection(PDA) : 238 nm (SPD-M40, UHPLC cell)

[MS conditions] (LCMS-2050)

Ionization : ESI/APCI (DUIS™),
 positive and negative mode
Mode : SCAN (m/z 400-800)
Nebulizing gas flow : 2.0 L/min
Drying gas flow : 5.0 L/min
Heating gas flow : 7.0 L/min
DL temp. : 200 °C
Desolvation temp. : 450°C
Interface voltage : +3.0 kV/-2.0 kV
Qarray voltage : +20 V

1*: P/N : 227-31064-03

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