

CoreFocus
Report
No.35

LC

Reversed-phase

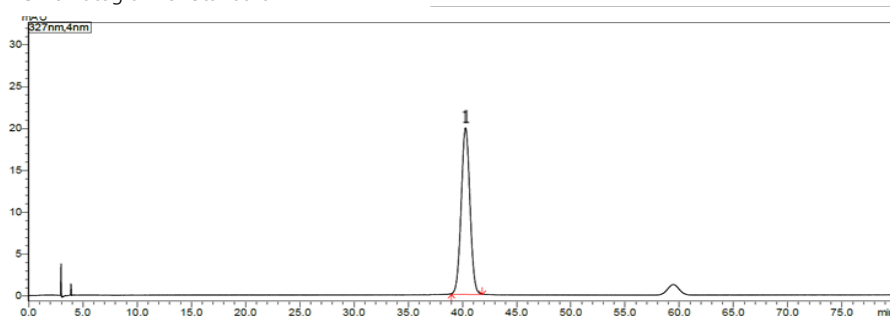
Shim-pack™ Series

Shim-pack Scepter™ C18-120

Analysis of Chlorogenic acid in Vitamin C medicine

Keywords: polyphenol

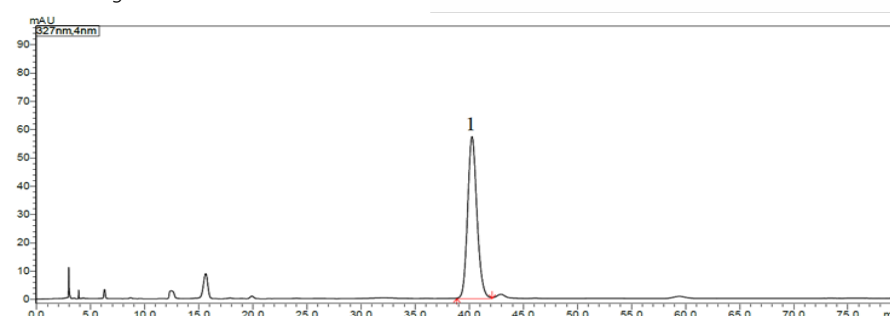
Chromatogram of Standard Mix



1. Chlorogenic acid

Standard Mix
Chlorogenic acid (30 µg/mL)

Chromatogram of Vitamin C medicine



Pretreatment procedure

- Collect 10 Vitamin C tablets.
- Remove the coating
- Grind finely and weigh 1 g into a 100 mL measuring flask.
- Add an amount of Methanol. Ultrasonic treatment (power 300W, frequency 40 kHz) for 45 min.
- After cooling, add dilute methanol to bring the final volume to 100 mL.
- Shake well and filter into a sample vial.

Column	: Shim-pack Scepter C18-120 (250 mm x 4.6 mm I.D., 5 µm), P/N : 227-31020-06
Mobile phase	: A) 1% glacial acetic acid aqueous solution B) Acetonitrile A : B = 94 : 6 (Isocratic elution)
Flow rate	: 1.0 mL/min
Column temp.	: 30°C
Injection vol.	: 10 µL
Vial	: LabTotal™ Vial for LC/LCMS, P/N : 227-34001-01
Detection	: UV at 327 nm

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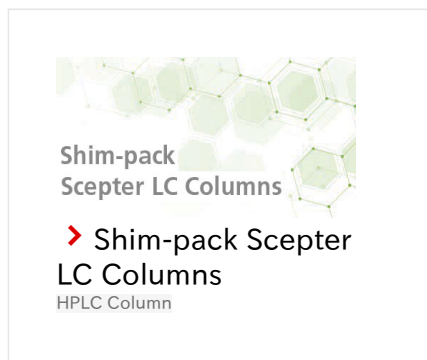
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