

CoreFocus
Report
No.34

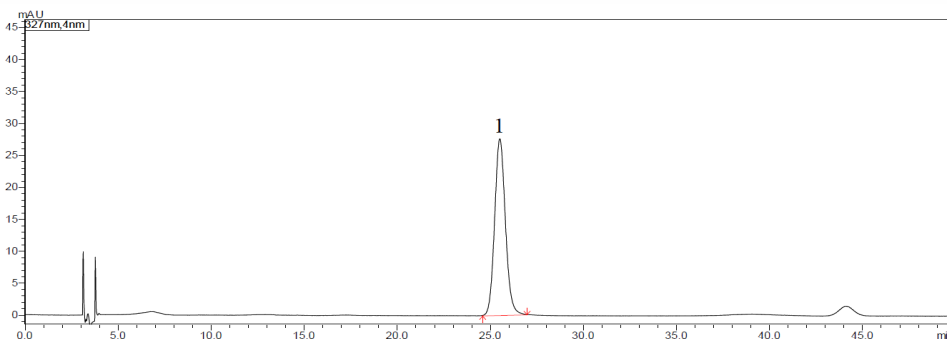
LC Reversed-phase Shim-pack Series

Shim-pack™ VP-ODS

Analysis of Chlorogenic acid in Vitamin C medicine

Keywords: Polyphenol

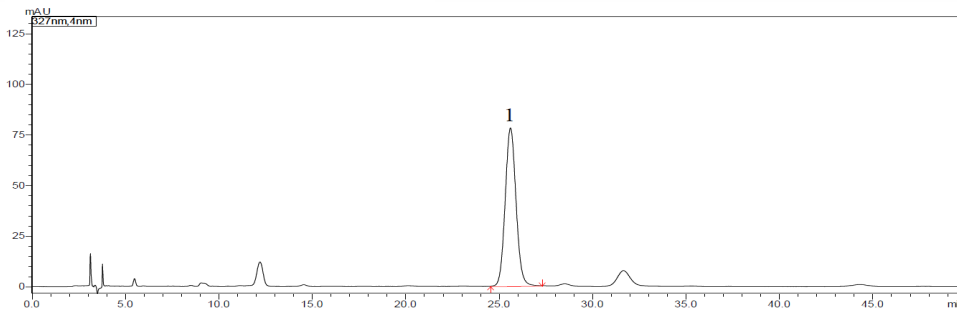
Chromatogram of Standard



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 VP-ODS (250 mm x 4.6 mm I.D., 5 µm), P/N : 228-34937-92
Mobile phase	: 1 % Glacial acetic acid aqueous solution: Methanol = 94 : 6
Flow rate	: 1.0 mL/min (Isocratic elution)
Column temp.	: 30°C
Injection vol.	: 10 µL
Vial	: SHIMADZU LabTotal™ Vial for LC/LCMS, P/N : 227-34001-01
Detection	: UV at 327 nm

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