

CoreFocus
Report
No.9

LC

Reversed-phase

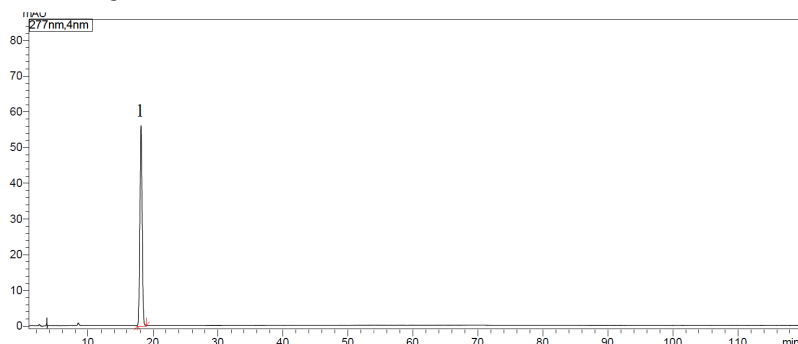
Shim-pack Series

Shim-pack™ GIS C18

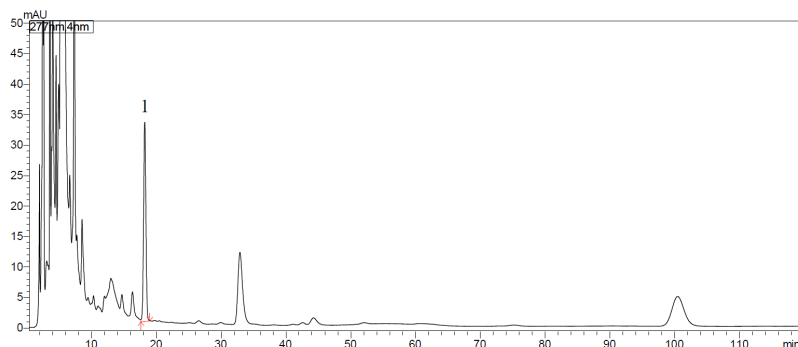
Analysis of Forsythin in *Forsythia*

Keywords: Chinese herbal medicine, glucopyranoside, antioxidant, antibacterial

Chromatogram of Standard Mix



Chromatogram of *Forsythia*



Column : Shim-pack GIS C18 (250 x 4.6 mm I.D., 5 µm), P/N: 227-30017-08
Mobile phase : A) Acetonitrile B) Water A/B = 1:3 (Isocratic flow)
Flow rate : 1.0 mL/min
Column oven Temp. : 30°C
Detection : UV 277 nm
Injection Volume : 10 µL
Vial : LabTotal™ Vial for LC/ LCMS, P/N: 227-34001-01

1. Forsythin

Standard Mix
Forsythin (0.2 mg/mL in Methanol)

Pretreatment procedure

- Collect sample (commercially available Forsythia powder) and passed through No. 5 sieve.
- Weigh 2g of sample and transfer into a stoppered conical flask.
- Add 25 mL of Methanol into flask.
- Close the stopper and reweigh.
- Ultrasonically treat it (power 250 W, frequency 40 kHz) for 25 minutes.
- After cooling, weigh the conical flask.
- Add Methanol to bring the final weight to the pre-reflux weight (Step d).
- Shake well and filter, then transfer 10mL into a 25mL flask.
- Add water to bring the final volume to 25mL.
- Shake well and filter into a sample vial.

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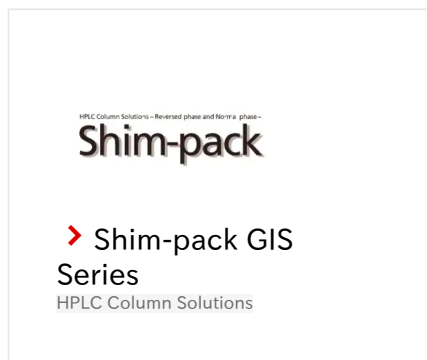
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