

CoreFocus
Report
No.10

LC

Reversed-phase

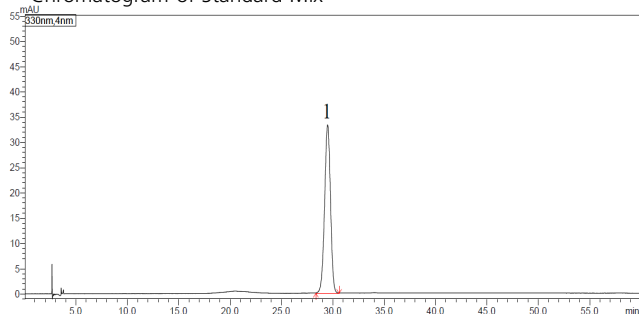
Shim-pack™ Series

Shim-pack Scepter™ C18-120

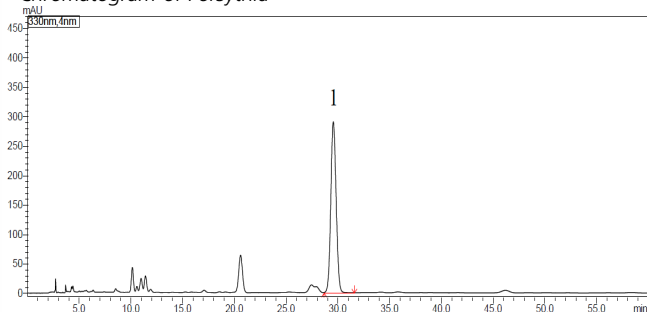
Analysis of Forsythiaside A in *Forsythia*

Keywords: Chinese herbal medicine, phenylethanoid, anti-inflammatory, antioxidant

Chromatogram of Standard Mix



Chromatogram of *Forsythia*



1. Forsythiaside A

Standard Mix
Forsythiaside A (0.1 mg/mL in Methanol)

Pretreatment procedure

- Collect sample (commercially available *Forsythia* powder) and passed through No. 5 sieve.
- Weigh 0.5g of sample and transfer into a stoppered conical flask.
- Add 15ml of 70% Methanol/Water into flask.
- Close the stopper and reweigh.
- Ultrasonically treat it (power 250 W, frequency 44kHz) for 30 minutes.
- After cooling, weigh the conical flask.
- Add 70% Methanol/Water to bring the final weight to the pre-reflux weight (Step d).
- Shake well and filter into a sample vial.

Column	: Shim-pack Scepter C18-120 (250 x 4.6 mm I.D., 5 µm) P/N: 227-31020-06
Mobile phase	: A) 0.4 % Acetic acid B) Acetonitrile A: B = 17: 3
Flow rate	: 1.0 mL/min (Isocratic elution)
Column Temp.	: 40°C
Detection	: UV 330 nm
Injection Volume	: 10 µL (Sample 1), 5 µL (Sample 2)
Vial	: LabTotal™ Vial for LC/ LCMS, P/N: 227-34001-01

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