

CoreFocus Report

No.20

LC Reversed-phase

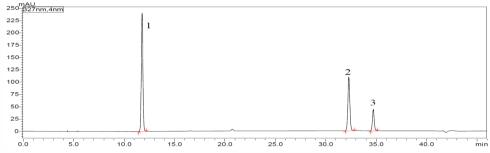
Shim-pack Series

Shim-pack[™] VP-ODS

Analysis of Phenolic acids in Honeysuckle

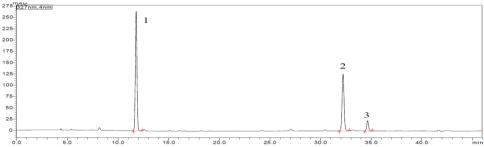
Keywords: Chinese herbal medicine, Phenolic acids, Chlorogenic acid

Chromatogram of Standard Mix



- Chlorogenic acid Methanol 2. 3,5-Di-O-Caffeoylquinic Acid 3. 4,5-Di-O-Caffeoylquinic Acid
- Standard Mix Chlorogenic acid Methanol (0.28 mg/mL in 75% Methanol) 3,5-Di-O-Caffeoylquinic Acid (0.15 mg/mL in 75% Methanol) 4,5-Di-O-Caffeoylquinic Acid (44 µg/mL in 75% Methanol)

Chromatogram of Honeysuckle



: LC-20AD System

Shim-pack VP-ODS (5µm, 250 x 4.6 mm I.D.) P/N: 228-34937-92 A) 0.1% Phosphoric acid Column

Mobile phase B) Acetonitrile

Gradient program : B Conc. 14% (0 min) \rightarrow 19% (8 - 14 min) \rightarrow 31% (34 min)

→ 90% (35 - 40 min) → 14% (41 - 50 min)

0.7 mL/min Column Temperature 25°C

Injection volume $2 \mu L$

Detection

UV 327 nm LabTotal™ Vial for LC LC/MS, P/N: 227-34001-01 Vial

Pretreatment procedure

- Collect sample (commercially available Honeysuckle powder) and passed through No. 4 sieve.
- Weigh 0.5 g of sample and transfer into a stoppered conical flask.
- Add 50 mL of 75% Methanol into flask.
- Close the stopper and reweigh.
- Ultrasonically treat it (power 500 W, frequency 40 kHz) for 30 minutes.
- After cooling, weigh the conical flask
- Add 75 % Methanol to bring the final weight to the prereflux weight (Step d).
- Shake well and filter into a sample vial

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