

CoreFocus
Report
No.14

LC

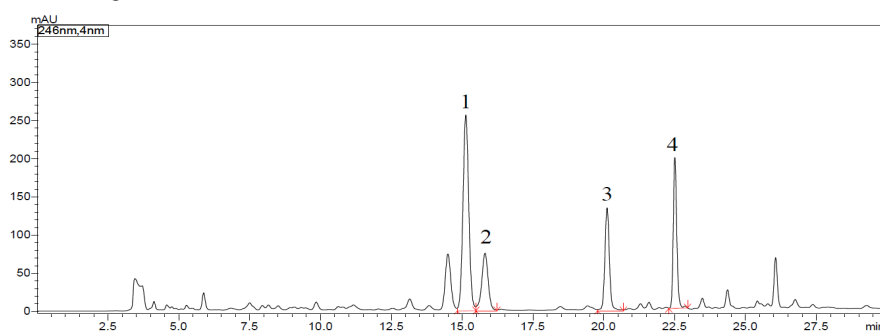
Reversed-phase

Shim-pack Series

Shim-pack™ VP-ODS C18
Analysis of Notopterol, Phenylethanol
Ferulate, Isoperatorin and Fusarium diol in
Notopterygium

Keywords: Chinese herbal medicine, furanocoumarin, anti-inflammatory, analgesic

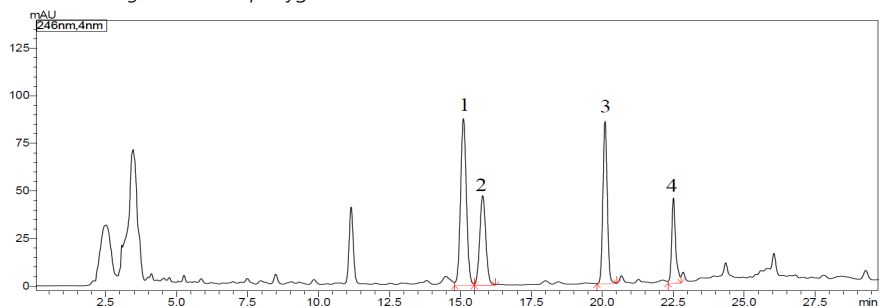
Chromatogram of Standard Mix



1. Notopterol
2. Phenylethanol Ferulate
3. Isoperatorin
4. Fusarium diol
(2 mg/mL in Methanol)

Standard Mix
Notopterol
Phenylethanol Ferulate
Isoperatorin
Fusarium diol
(2 mg/mL in Methanol)

Chromatogram of *Notopterygium*



Pretreatment procedure

- a. Collect sample (commercially available *Notopterygium* powder) and passed through No. 3 sieve.
- b. Weigh 0.4g of sample and transfer into a stoppered conical flask.
- c. Add 50mL of Methanol into flask.
- d. Close the stopper and reweigh.
- e. Ultrasonically treat it (power 250 W, frequency 50kHz) for 30 minutes.
- f. After cooling, weigh the conical flask.
- g. Add Methanol to bring the final weight to the pre-reflux weight (Step d).
- h. 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	: A) 0.1% Phosphoric acid : B) Acetonitrile
Time program	: B Conc. 48% (0 - 6 min) → 53% (6.1 - 20 min) → 80% (20.1 - 30 min)
Flow rate	: 1.0 mL/min
Column Temp.	: 25°C
Injection volume	: 10 μL
Detection	: UV 246 nm
Vial	: LabTotal™ Vial for LC/LCMS, P/N: 227-34001-01

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