

### *CoreFocus* Report

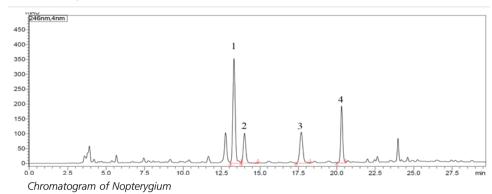
No.13

LC Reversed-phase Shim-pack Series

# Shim-pack™ GISS C18 Analysis of Notopterol, Phenylethanol Ferulate, Isoperatorin and Fusarium diol in *Nopterygium*

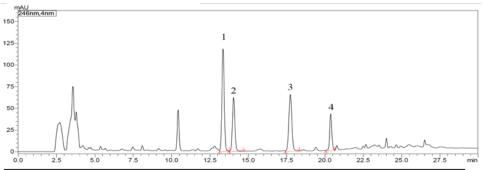
Keywords: Chinese herbal medicine, furanocoumarin, anti-inflammatory, analgesic

Chromatogram of Standard Mix



- 1. Notopterol
- 2. Phenylethanol Ferulate
- 3. Isoperatorin
- 4. Fusarium diol

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



Column

: Shim-pack GISS C18, (250 mm x 4.6 mm I.D., 5 μm), P/N: 227-30061-07

Mobile phase : A) 0.1% Phosphate Buffer

: B) Acetonitrile

Time program : B Conc. 48% (0.0 min)  $\rightarrow$  53% (6.0-12.0 min)  $\rightarrow$  80% (20.0-30.0 min)

Flow rate : 1.0 mL/min Column Temperature : 25°C

Injection volume : 10 µL Detection : UV 246 nm

Vial : LabTotal™ Vial for LC/ LCMS, P/N: 227-34001-01

#### Pretreatment procedure

- a. Collect sample (commercially available Nopterygium powder) and passed through No. 3
- b. Weigh 0.4 g of sample and transfer into a stoppered conical flask.
- c. Add 50 mL of Methanol into flask.
- d. Close the stopper and reweigh.
- e. Ultrasonically treat it (power 250 W, frequency 50 kHz) for 30 minutes.
- f. After cooling, weigh the conical flask.
- g. Add Methanol to bring the final weight to the prereflux weight (Step d).
- h. Shake well and filter into a sample vial.

CoreFocus, Shim-pack and LabTotal are trademarks of Shimadzu Corporation or its affiliated companies in Japan and/or other countries

## Shimadzu Corporation www.shimadzu.com/an/

#### For Research Use Only. Not for use in diagnostic procedures.

This publication may contain references to products that are not available in your country. Please contact us to check the availability of these products in your country.

The content of this publication shall not be reproduced, altered or sold for any commercial purpose without the written approval of

Shimadzu. Company names, products/service names and logos used in this publication are trademarks and trade names of Shimadzu Corporation, its subsidiaries or its affiliates, whether or not they are used with trademark symbol "TM" or "®".

Third-party trademarks and trade names may be used in this publication to refer to either the entities or their products/services, whether or not they are used with trademark symbol "TM" or "®".

Shimadzu disclaims any proprietary interest in trademarks and trade names other than its own

The information contained herein is provided to you "as is" without warranty of any kind including without limitation warranties as to its accuracy or completeness. Shimadzu does not assume any responsibility or liability for any damage, whether direct or indirect, relating to the use of this publication. This publication is based upon the information available to Shimadzu on or before the date of publication, and subject to change without notice.