

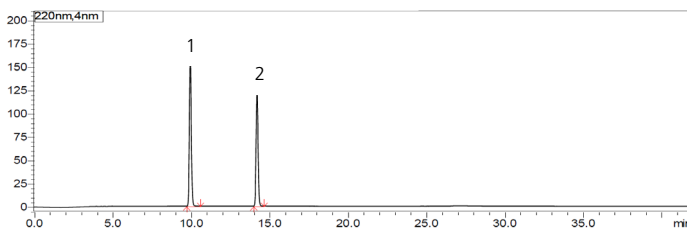
CoreFocus
Report
No.11

LC Reversed-phase Shim-pack Series

Shim-pack™ GISS C18
Analysis of Gastrodin, *p*-hydroxybenzyl alcohol and Parishins in *Gastrodia Tuber*

Keywords: Chinese herbal medicine, phenolic glucoside, neuroprotective

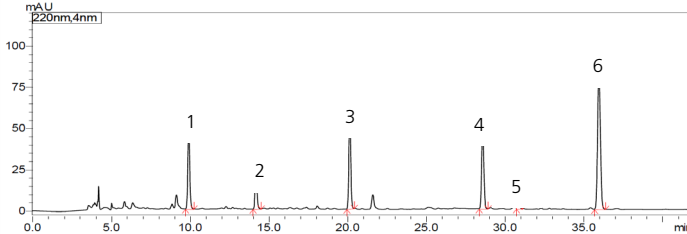
Chromatogram of Standard Mix



1. Gastrodin
2. *p*-hydroxybenzyl alcohol
3. Parishin E
4. Parishin B
5. Parishin C
6. Parishin

Standard Mix
Gastrodin (50 µg/mL in Acetonitrile-water (3:97))
p-hydroxybenzyl alcohol (35 µg/mL in Acetonitrile-water (3:97))

Chromatogram of Medicinal material of *Gastrodia*

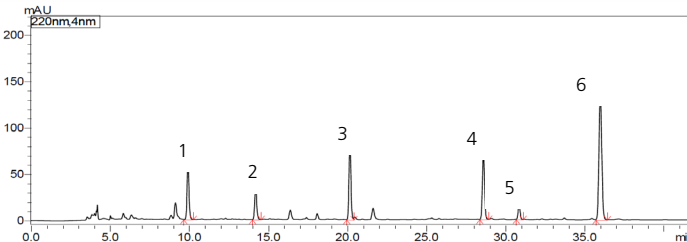


Pretreatment procedure

<Medical material of *Gastrodia*>

- a. Collect sample. (Herbal medicine: Six Ingredient Pills with *Rehmannia*) and grind to a fine powder.
- b. Weigh 0.5g of medicinal material of *Gastrodia* and transfer into a stoppered conical flask.
- c. Add 25 mL of 50% Methanol/Water into flask.
- d. Close the stopper and reweigh.
- e. Ultrasonically treat it (power 500W, frequency 40 kHz) for 30 minutes.
- f. After cooling, shake well and filter into a sample vial.

Chromatogram of *Gastrodia*



<*Gastrodia*>

- a. Weigh 0.5g of sample (commercially available *Gastrodia* powder) and passed through No. 4 sieve.
- b. Prepare for sample in the same procedure as Control medical material of *Gastrodia*

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% Phosphoric acid
 : B) Acetonitrile
 Gradient program : B Conc. 3% (0.0 min) → 10% (10.0 min) → 12% (15.0 min) → 18% (25.0 -40.0min) → 95% (42.0 min)
 Flow rate : 0.8 mL/min
 Column Temp. : 30°C
 Detection : UV 220 nm
 Injection Volume : 3 µL
 Vial : LabTotal™ Vial for LC/ LCMS, P/N: 227-34001-01

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