

**CoreFocus**  
**Report**  
**No.64**

LC

Reversed-phase

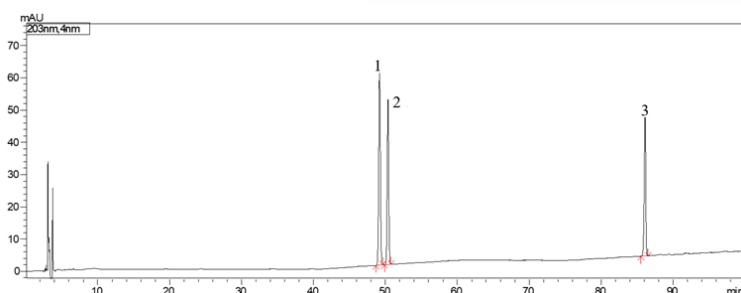
Shim-pack Series

**Shim-pack™ GISS C18**

**Analysis of Ginsenosides in *Ginseng***

**Keywords: panaxosides, triterpene saponins**

Chromatogram of Standard Mix

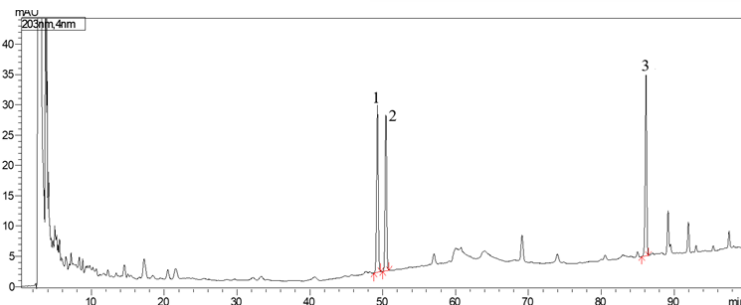


1. Ginsenosides Rg<sub>1</sub>
2. Ginsenosides Re
3. Ginsenosides Rb<sub>1</sub>

**Standard Mix**

Ginsenosides Rg<sub>1</sub> (0.2 mg/mL in 70% Methanol)  
Ginsenosides Re (0.2 mg/mL in 70% Methanol)  
Ginsenosides Rb<sub>1</sub> (0.2 mg/mL in 70% Methanol)

Chromatogram of Standard *Ginseng*



**Pretreatment procedure**

- a. Weigh 1 g of this product powder.
- b. Add Chloroform and reflux for 3 hours.
- c. Discard the chloroform liquid.
- d. Evaporate the dregs and evaporate the solvent together with the filter paper cartridge.
- e. Transfer into a 100 mL Erlenmeyer flask.
- f. Precisely add 50 mL of saturated n-butanol.
- g. Place overnight and ultrasonic treatment (power 250W, frequency 33kHz) for 30 minutes.
- h. Filter discard the first filtrate.
- i. Measure 25 mL of the filtrate.
- j. Place it in an evaporating dish and evaporate to dryness.
- k. Add Methanol to dissolve the residue and transfer to a 5 mL measuring flask.
- l. Add Methanol to dilute to the mark.
- m. Shake well and filter into a sample vial.

Column	: Shim-pack GISS C18 (250 mm x 4.6 mm I.D., 5 μm), P/N : 227-30061-07
Mobile phase	: A) Water B) Acetonitrile
Gradient Program	: 19%B (0 min – 35 min) – 29%B (55 min – 70 min) – 40%B (100 min)
Flow rate	: 1.0 mL/min
Column temp.	: 35 °C
Injection vol.	: 10 μL
Vial	: LabTotal™ Vial for LC/LCMS, P/N : 227-34001-01
Detection	: UV at 203 nm

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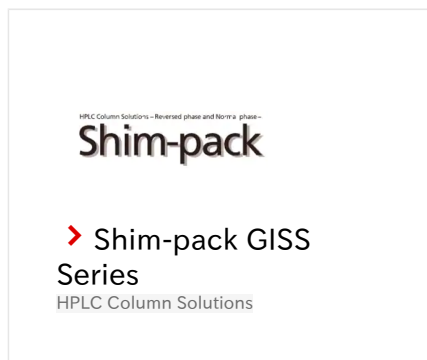
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