

CoreFocus Report

No.62

LC

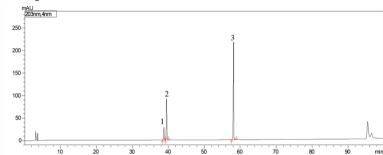
Reversed-phase

**Shim-pack Series** 

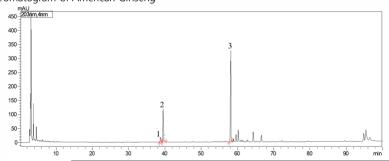
# Shim-pack™ GISS C18 Analysis of Ginsenosides in American Ginseng

## Keywords: panaxosides, triterpene saponins

### Chromatogram of Standard Mix



Chromatogram of American Ginseng



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

#### Standard Mix

Ginsenosides Rg<sub>1</sub> (0.1 mg/mL in Methanol) Ginsenosides Re (0.4 mg/mL in Methanol) Ginsenosides Rb<sub>1</sub> (1 mg/mL in Methanol)

- Weigh 1 g of the sample (commercially available American Ginseng powder) and transfer into a stoppered conical flask
- Add 50 mL of water-saturated n-butanol.
- Close the stopper and reweigh.
- d. Heat to reflux for 1.5 hours.
- After cooling, weigh the conical flask.
- Add with n-butanol saturated with water to bring the final weight to the pre-reflux weight (Step c).
- Shake well and filter.
- Accurately measure 25 mL of the filtrate, transfer it in an evaporating dish.
- Evaporate to dryness.
- Add an appropriate amount of 50% methanol to dissolve the residue.
- Transfer into a 10 mL measuring flask.
  - Add 50% Methanol and dilute to the mark. Shake well filter into a sample vial.

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

Mobile phase A) 0.1% Phosphoric acid aqueous solution

Gradient 19%B (0 min) -20%B(25 min) - 40%B(60 min) - 55%B(90 min) - 60%B (100

Program Flow rate : 1.0 mL/min

: 40°C Column temp. Injection vol. : 10 µL

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

Detection : UV at 203 nm

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