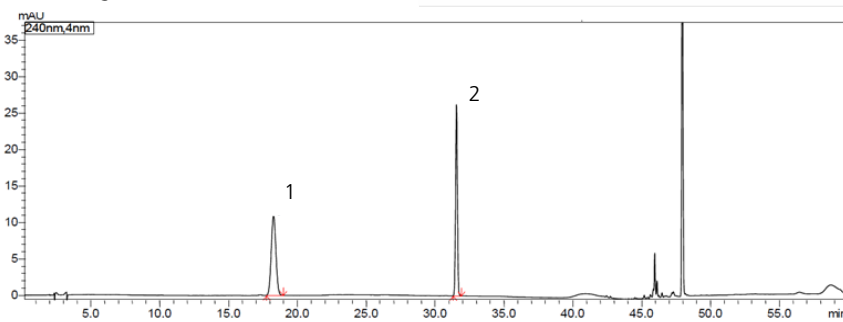# SHIMADZU
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CoreFocus Report No. 2

| LC | Reversed-phase | Shim-pack Series |

Shim-pack™ GIS C18
Analysis of Binapacryl and Loganin in Six Ingredient Pills with *Rehmannia*

Keywords: Pesticide, Glycoside, Herbal medicine
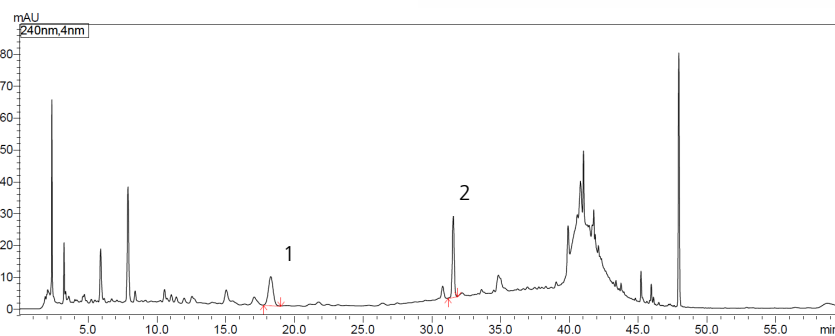
Chromatogram of Standard Mix

1. Morocide
2. Loganin

Standard Mix
Morocide
Loganin
(20 µg/mL in Methanol)

Chromatogram of *Rehmannia*

Pretreatment procedure
a. Collect sample. (Herbal medicine: Six Ingredient Pills with *Rehmannia*) and grind to a fine powder.
b. Weigh 0.7g of sample and transfer into a stoppered conical flask.
c. Add 25 mL of 50% Methanol/Water into flask.
d. Close the stopper and reweigh.
e. Heat to reflux for 1 hour.
f. After cooling, weigh the conical flask.
g. Add 50% Methanol/Water to bring the final weight to the pre-reflux weight (Step d).
h. Shake well and filter into a sample vial.

Column	: Shim-pack GIS C18 (250 x 4.6 mm I.D., 5 µm), P/N: 227-30106-08
Mobile phase	: A: 0.3% Phosphoric acid, B: Acetonitrile
Time program	: B Conc. 5% (0.0 min) → 8% (5.0 - 20.0 min) → 20% (35.0 min) → 60% (45.0 - 55.0 min) → 5% (55.1 - 65.0 min)
Flow rate	: 1.3 mL/min
Column Temp.	: 40°C
Detection	: UV 240 nm
Injection volume	: 10 µL
Vial	: LabTotal™ Vial for LC/ LCMS, P/N: 227-34001-01

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