

CoreFocus
Report
No.21

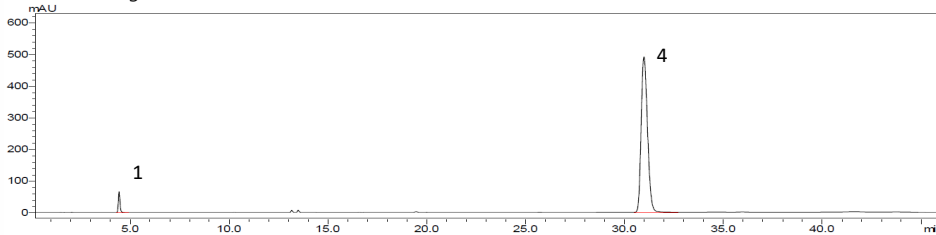
LC Reversed-phase Shim-pack Series

Shim-pack™ GIS C18

Analysis of Citrate and Chlorogenic acid in Processed *Mume Fructus*

Keywords: Chinese herbal medicine, *Fructus*, Citrate, Chlorogenic acid

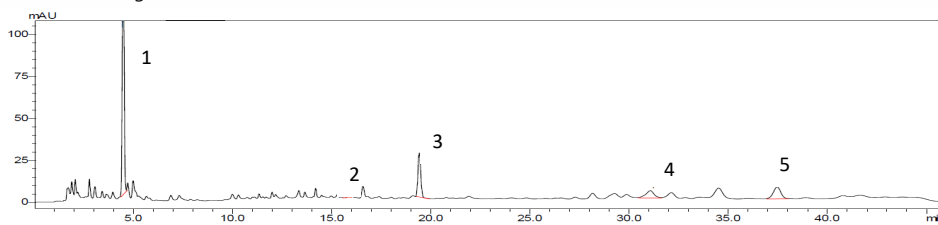
Chromatogram of Standard Mix



- 1. Citrate
- 2. Chlorogenic acid

Standard Mix
Citrate (1mg/mL in Water)
Chlorogenic acid (1mg/mL in Water)

Chromatogram of medicinal material of *Mume Fructus*



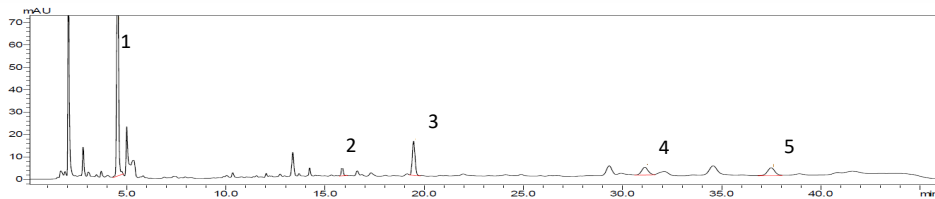
<Medicinal material of *Mume Fructus*>

- a. Weigh 1 g of this medicinal material of *Mume Fructus* and transfer into a stoppered Erlenmeyer flask
- b. Add 50 mL of water into flask.
- c. Heat to reflux for 30 minutes.
- d. After cooling, shake well and filter into a sample vial..

<*Mume Fructus*>

- a. Collect sample (commercially available *Mume Fructus* powder),
- b. grind finely.
- c. Weigh 0.4 g and transfer into a 50 mL measuring flask.
- d. Add an amount of water to dissolve and dilute to the mark.
- e. Shake well and filter into a sample vial.

Chromatogram of *Mume Fructus*



System	: LC-40B X3
Column	: Shim-pack GIS C18 (150 mm x 2.1 mm I.D., 2 μm) P/N: 227-30093-05
Mobile phase	: A) 0.5% Ammonium phosphate containing phosphoric acid (pH 2.91) : B) Acetonitrile
Time program	: B Conc. 1% (0.0 min) → 2% (3.0 min) → 8% (9.0-30.0 min) → 10% (40.0 min) → 1% (41.0-46.0 min)
Flow rate	: 0.2 mL/min
Column Temperature	: 30°C
Injection volume	: 1 μL
Detection	: UV 210 nm
Vial	: LabTotal™ Vial for LC LC/MS, P/N: 227-34001-01

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