

**CoreFocus**  
**Report**  
**No.73**

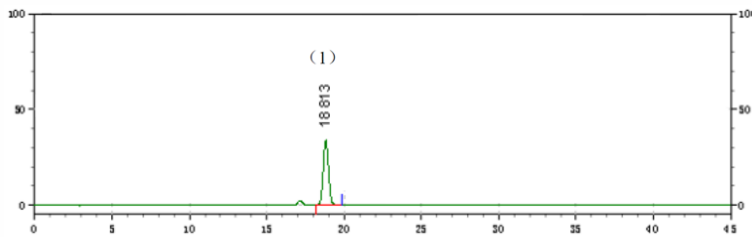
LC Reversed-phase Shim-pack Series

**Shim-pack™ GIST C18-AQ**

**Analysis of Caffeic acid in *Dandelion***

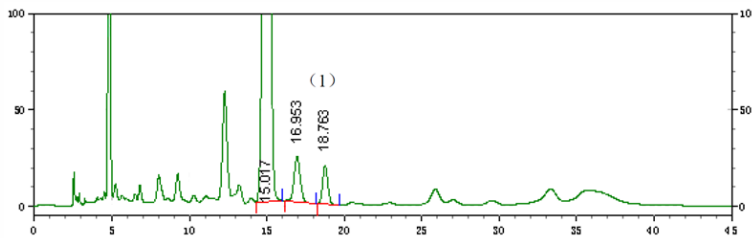
**Keywords: Carcinogenic**

Chromatogram of Standard Mix



1. Caffeic acid  
Standard Mix  
Caffeic acid (10 µg/mL in 70% Methanol)

Chromatogram of *Dandelion*



- Pretreatment procedure
- Weigh 1 g of sample (commercially available *Dandelion* powder) and transfer into a 50 mL stoppered conical flask.
  - Add 10 mL of 5% Formic acid in Methanol solution into flask.
  - Close the stopper and reweigh.
  - Ultrasonically treat it (power 250 W, frequency 40 kHz) for 30 minutes.
  - After cooling, weigh the conical flask.
  - Add 5% Formic acid in Methanol to bring the final weight to the pre-reflux weight (Step c).
  - Shake well, Centrifuge and collect supernatant.

Column	: Shim-pack GIST C18-AQ (250 mm x 4.6 mm I.D., 5 µm )	P/N: 227-30742-08
Mobile phase	: Phosphate Buffer solution (PH 3.9) : Methanol = 78.5 : 21.5	
Flow rate	: 1.0 mL/min	
Column temp.	: 40°C	
Injection vol.	: 10 µL	
Vial	: LabTotal™ Vial for LC/LCMS, P/N : 227-34001-01	
Detection	: UV at 323 nm	

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