

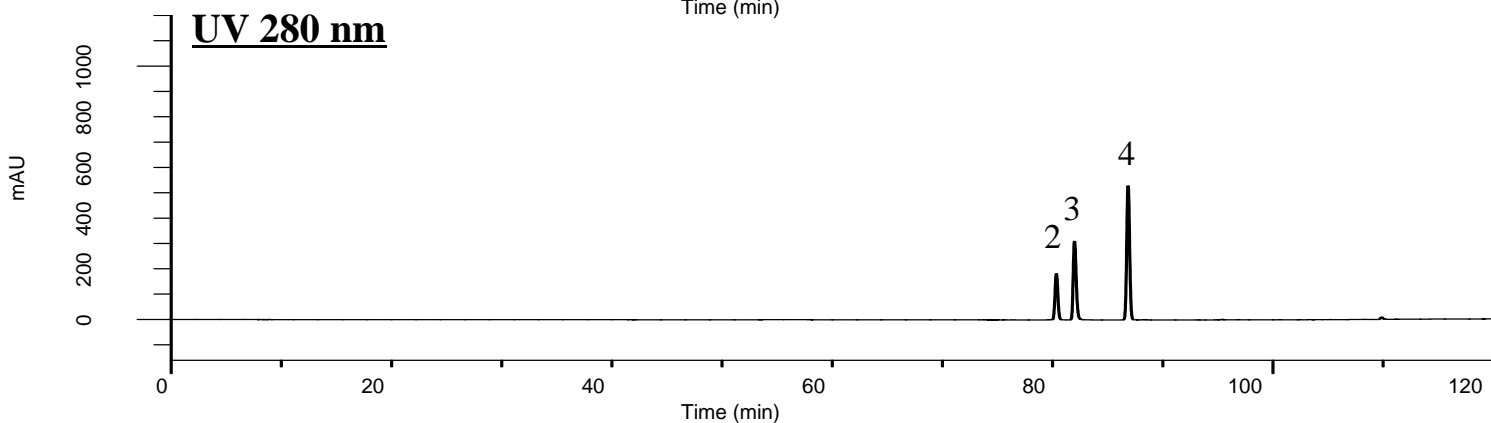
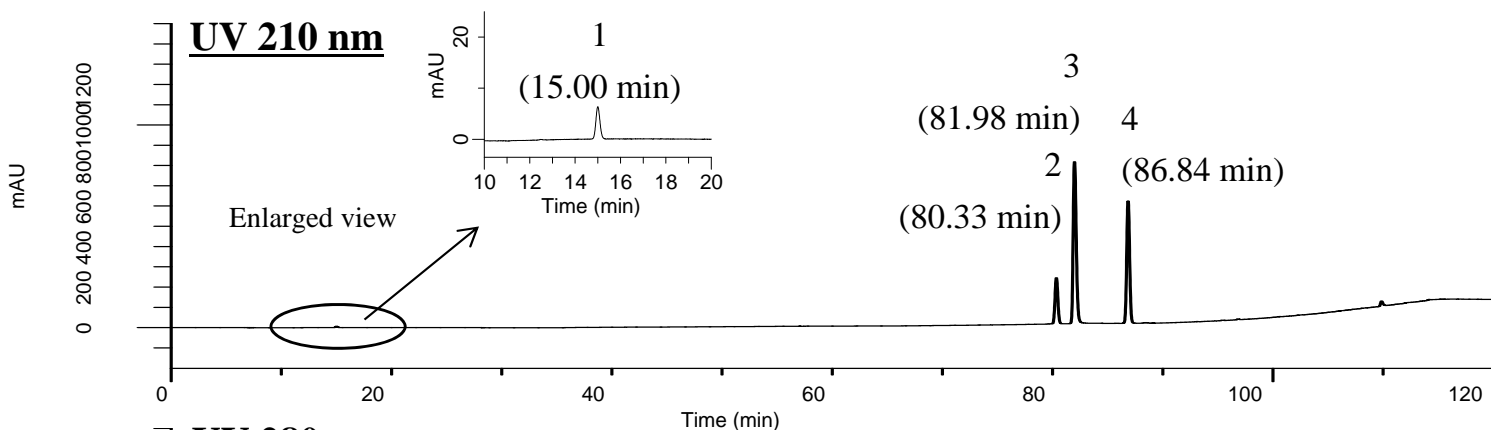
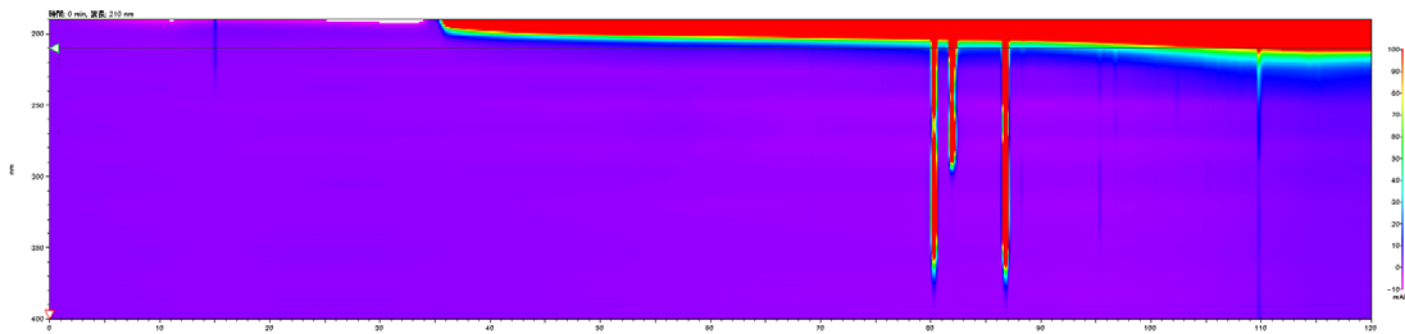
# InertSearch™ for LC

Inertsil® Applications

## Analysis of components of coffee

Data No. LB321-0659

Absorbance: -10 ~ 100 mAU



### Conditions

**System** : GL7700 HPLC system  
**Column** : Inertsil ODS-4  
(5  $\mu$  m, 250 x 4.6 mm I.D.)  
(2 columns were connected in series)  
**Column Cat. No.** : 5020-03946  
**Eluent** : A) 0.1 % H<sub>3</sub>PO<sub>4</sub> in CH<sub>3</sub>OH  
B) 0.1 % H<sub>3</sub>PO<sub>4</sub> in H<sub>2</sub>O  
**Flow Rate** : 0.5 mL/min  
**Col. Temp.** : 15 °C  
**Detection** : UV 210, 280 nm (PD7752 PDA Detector)  
**Injection Vol.** : 5  $\mu$  L  
**Sample** : Standard

### Analyte:

1. Quinic acid 0.23 mg/mL  
2. Chlorogenic acid 0.25 mg/mL  
3. Caffeine 0.25 mg/mL  
4. Caffeic acid 0.17 mg/mL

| Time (min) | A (vol%) | B (vol%) |
|------------|----------|----------|
| 0.0        | 0        | 100      |
| 15.0       | 0        | 100      |
| 75.0       | 50       | 50       |
| 100.0      | 100      | 0        |
| 120.0      | 100      | 0        |
| 121.1      | 0        | 100      |
| 180.0      | 0        | 100      |