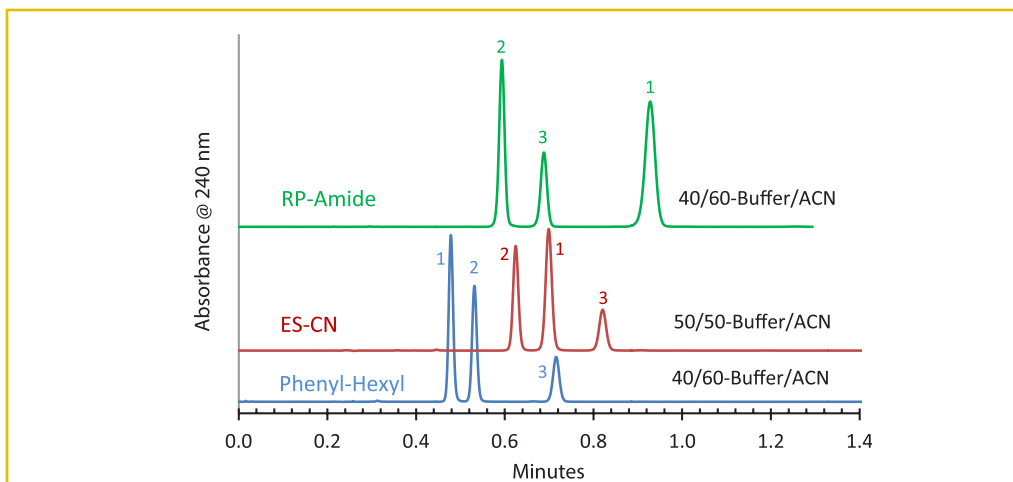




## Separation of Three Flavonoids on HALO® RP-Amide, ES-CN and Phenyl-Hexyl, 2.7 µm

Application Note 97-FL



### PEAK IDENTITIES:

1. Biochanin A
2. Flavone
3. Flavanone

These separations illustrate different selectivities for three flavonoids on three HALO® Fused-Core® (2.7 µm) columns. These phase choices allow flexibility during method development and optimization. Note the short separation time and modest back pressure.

### TEST CONDITIONS:

#### Columns:

1) HALO 90 Å RP-Amide, 2.7 µm, 4.6 x 50 mm

**Part Number:** 92814-407

2) HALO 90 Å ES-CN, 2.7 µm, 4.6 x 50 mm

**Part Number:** 92814-404

3) HALO 90 Å Phenyl-Hexyl, 2.7 µm, 4.6 x 50 mm

**Part Number:** 92814-406

#### Mobile Phase: A/B - See chart

A: 0.02 M Potassium phosphate buffer, pH 2.9

B: Acetonitrile

**Flow Rate:** 2.0 mL/min

**Pressure:** ~170 bar

**Temperature:** 30 °C

**Detection:** UV 240 nm, VWD

**Injection Volume:** 1.0 µL

**Sample Solvent:** 50/50 water/acetonitrile

**Response Time:** 0.02 sec

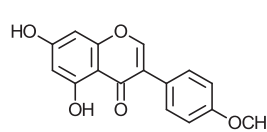
**Data Rate:** 25 Hz

**Flow Cell:** 2.5 µL semi-micro

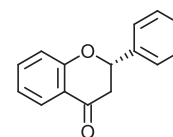
**LC System:** Shimadzu Prominence UFLC XR

**Extra Column Volume:** ~14 µL

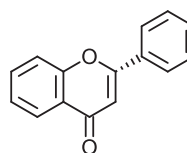
### STRUCTURES:



Biochanin A



Flavanone



Flavone

