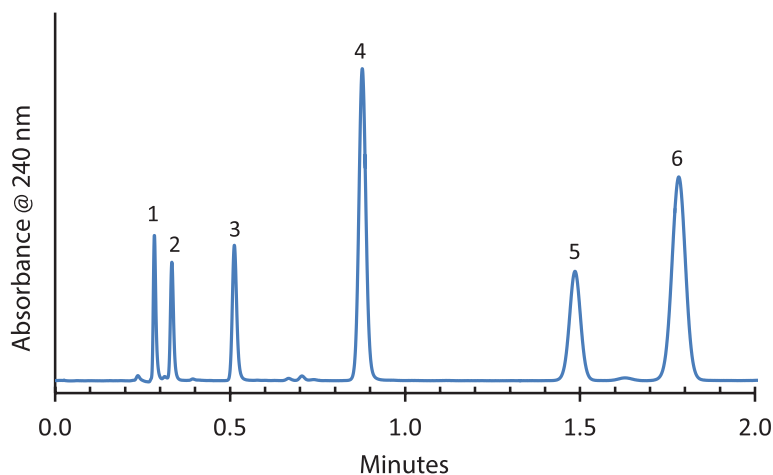




## Separation of Six Flavonoids on HALO® C18, 2.7 µm

Application Note 96-FL



### PEAK IDENTITIES:

1. Catechin
2. Naringin
3. Myricetin
4. Quercetin
5. Naringenin
6. Hesperetin

Flavonoids are naturally occurring polyphenols that are found in plant leaves, flowers and seeds. They have beneficial health effects and are often taken as dietary supplements. Analysis of this flavonoids mixture can be carried out in less than 2 minutes using a short HALO® Fused-Core® C18 column.

### TEST CONDITIONS:

**Column:** HALO 90 Å C18, 2.7 µm,  
4.6 x 50 mm

**Part Number:** 92814-402

**Mobile Phase:** 70/30 - A/B

A: 0.02 M phosphate buffer, pH 2.9, (adj.)

B: Acetonitrile

**Flow Rate:** 2.0 mL/min

**Pressure:** 224 bar

**Temperature:** 30 °C

**Detection:** UV 240 nm, WWD

**Injection Volume:** 1.0 µL

**Sample Solvent:** Methanol

**Response Time:** 0.02 sec

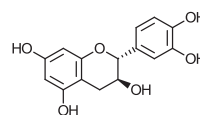
**Data Rate:** 25 Hz

**Flow Cell:** 2.5 µL semi-micro

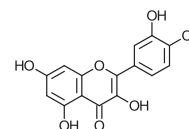
**LC System:** Shimadzu Prominence UFLC XR

**Extra Column Volume:** ~14 µL

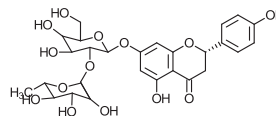
### STRUCTURES:



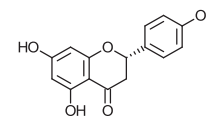
Catechin



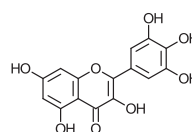
Quercetin



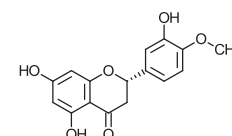
Naringin



Naringenin



Myricetin



Hesperetin

