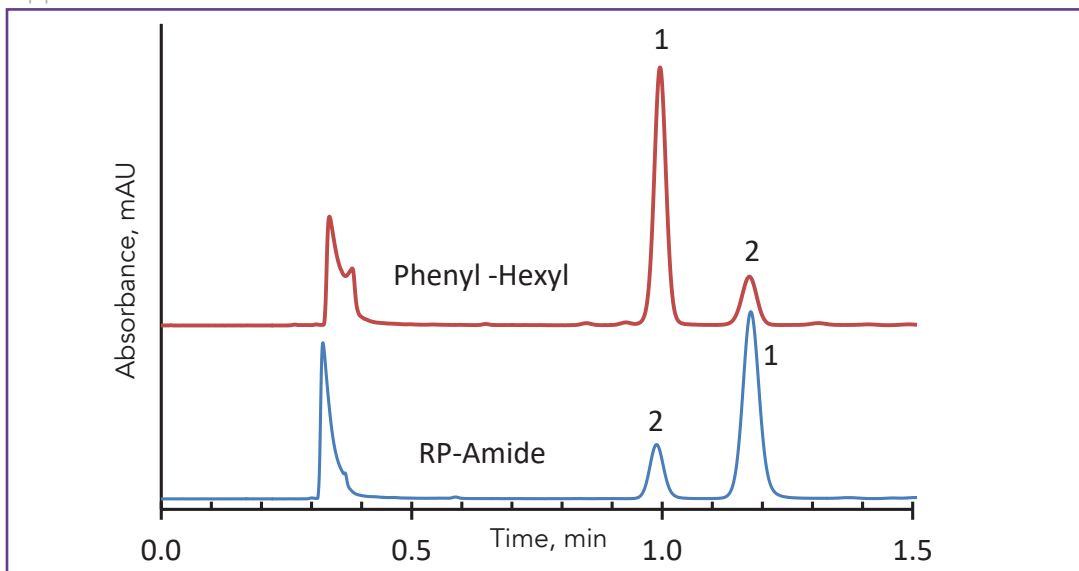




## Separation of Diosmin and Hesperidin on HALO® Phenyl-Hexyl and HALO® RP-Amide

Application Note 83-FL



### PEAK IDENTITIES:

1. Diosmin
2. Hesperidin

These two semi-synthetic flavonoids are often taken to enhance vascular health. The two compounds may be easily separated using either HALO® RP-Amide or HALO® Phenyl-Hexyl phases. Note the difference in elution order on the two phases.

### TEST CONDITIONS:

#### Columns:

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

**Part Number:** 92814-406

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

**Part Number:** 92814-407

**Mobile Phase:** 78/22 - A/B

A: Water

B: Acetonitrile

**Flow Rate:** 1.5 mL/min

**Pressure:** 145 bar

**Temperature:** 40 °C

**Detection:** UV 254 nm, VWD

**Injection Volume:** 0.5 µL

**Sample Solvent:** Dimethylformamide (needed for solubility reasons)

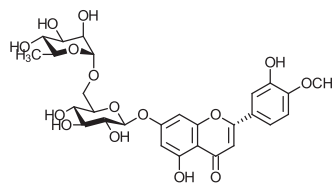
**Response Time:** 0.02 sec

**Flow Cell:** 2.5 µL semi-micro

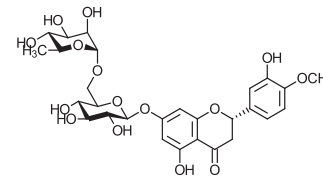
**LC System:** Shimadzu Prominence UFLC XR

**Extra Column Volume:** ~14 µL

### STRUCTURES:



Diosmin



Hesperidin

