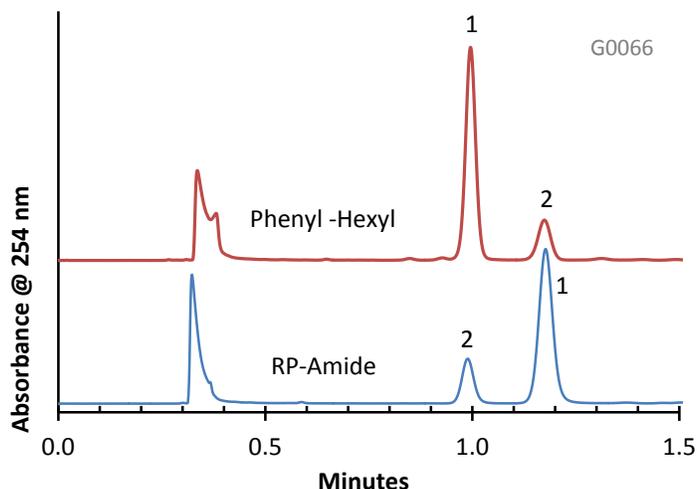


Application Note: 083-FL

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



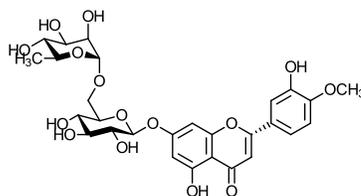
PEAK IDENTITIES:

1. Diosmin
2. Hesperidin

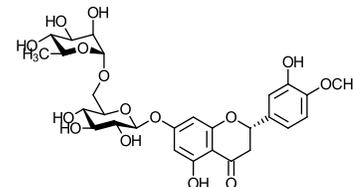
TEST CONDITIONS:

Column 1: 4.6 x 50 mm, HALO Phenyl-Hexyl
Part Number: 92814-406
Column 2: 4.6 x 50 mm, HALO RP Amide
Part Number: 92814-407
Mobile Phase: 78/22: Water/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*
Response Time: 0.02 sec.
Flow Cell: 2.5 µL semi-micro
LC System: Shimadzu Prominence UFLC XR
ECV: ~14 µL

STRUCTURES:



Diosmin



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.

*Needed for solubility reasons.