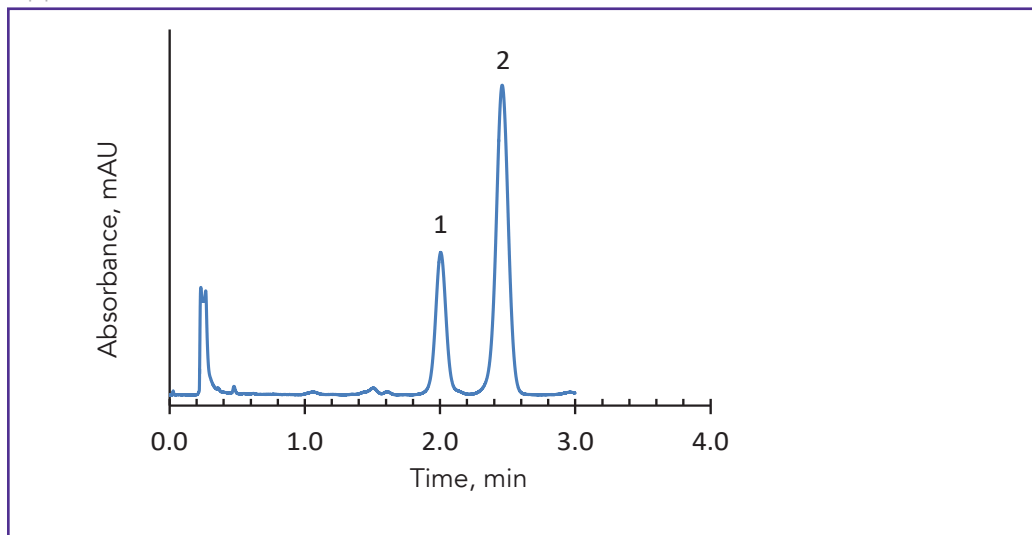




HPLC Separation of Hesperidin and Diosmin on HALO® PFP, 5 µm

Application Note 84-FL



PEAK IDENTITIES:

1. Hesperidin
2. Diosmin

These two semisynthetic flavonoids can be rapidly separated using HALO® PFP (pentafluorophenyl) 5 µm stationary phase at a low pressure. Note that just the addition of a double bond results in a difference that allows these two very similar compounds to be separated.

TEST CONDITIONS:

Column: HALO 90 Å PFP, 5 µm,
3.0 x 50 mm

Part Number: 95813-409

Mobile Phase: 85/15 - A/B

A: 0.02 M Potassium phosphate buffer,
pH 3.0

B: Acetonitrile

Flow Rate: 1.0 mL/min

Pressure: 92 bar

Temperature: 30 °C

Detection: UV 260 nm, VWD

Injection Volume: 0.5 µL

Sample Solvent: Dimethylformamide (needed
for solubility reasons)

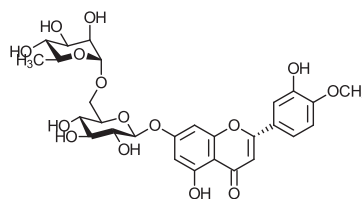
Response Time: 0.02 sec

Flow Cell: 2.5 µL semi-micro

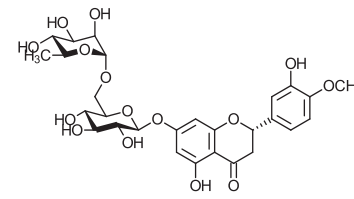
LC System: Shimadzu Prominence UFLC XR

Extra Column Volume: ~14 µL

STRUCTURES:



Diosmin



Hesperidin

