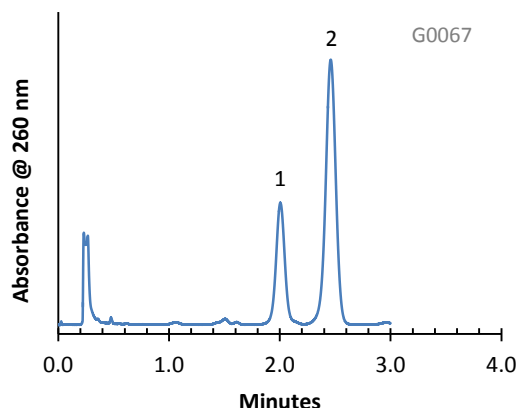


HPLC Separation of Hesperidin and Diosmin on HALO-5 PFP Phase



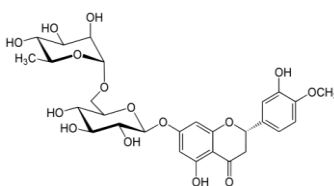
PEAK IDENTITIES:

1. Hesperidin
2. Diosmin

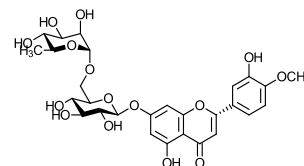
TEST CONDITIONS:

Column: 3.0 x 50 mm, HALO-5 PFP
 Part Number: 95813-409
 Mobile Phase: 85/15: A/B
 A= 0.02 M Potassium phosphate buffer, pH=3
 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*
 Response Time: 0.02 sec.
 Flow Cell: 2.5 µL semi-micro
 LC System: Shimadzu Prominence UFLC XR
 ECV: ~14 µL

STRUCTURES:



Hesperidin



Diosmin

These two semisynthetic flavonoids can be rapidly separated using HALO-5 PFP (pentafluorophenyl) 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.

*Needed for solubility reasons.