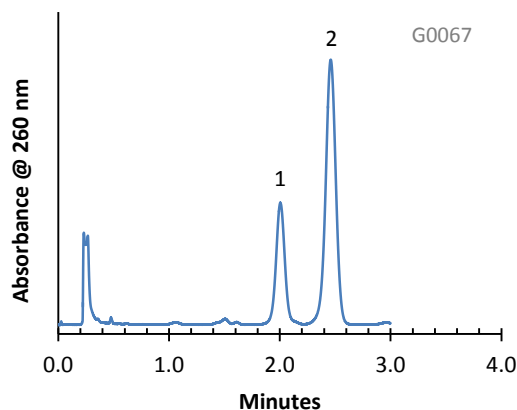


## HPLC Separation of Hesperidin and Diosmin on HALO-5 PFP Phase



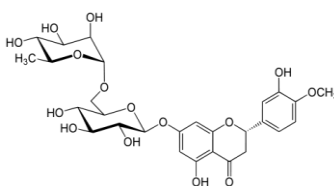
### PEAK IDENTITIES:

1. Hesperidin
2. Diosmin

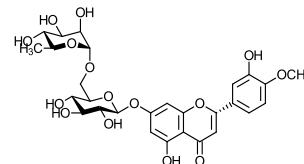
### TEST CONDITIONS:

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.