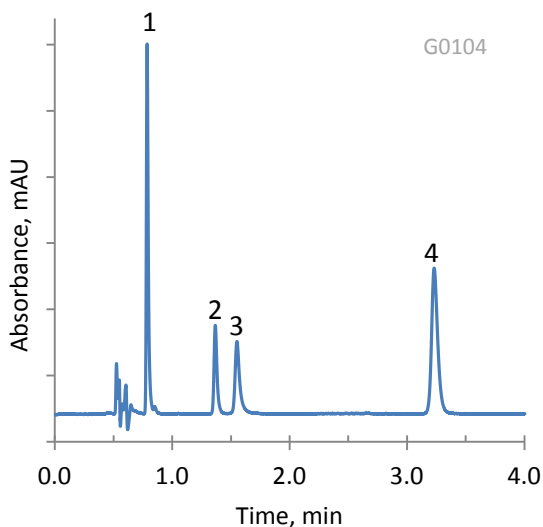


Application Note: 120-F

Separation of Water Soluble Vitamins on HALO 2 HILIC



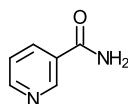
PEAK IDENTITIES:

1. Nicotinamide
2. Riboflavin
3. Ascorbic Acid
4. Nicotinic Acid

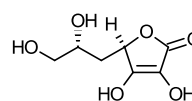
TEST CONDITIONS:

Column: 2.1 x 100 mm, HALO 2 HILIC
Part Number: 91812-601
Isocratic: 92/8: ACN/water with 5 mM Ammonium Formate, pH 3
Flow Rate: 0.5 mL/min.
Pressure: 220 bar
Temperature: 30°C
Detection: UV 265 nm, PDA
Injection Volume: 0.3 µL
Sample Solvent: 75/25: ACN/Methanol with 2% formic acid
Data Rate: 40 Hz
Response Time: 0.1 sec.
Flow Cell: 2.5 µL semi-micro
LC System: Agilent 1200 SL

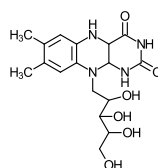
STRUCTURES:



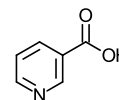
Nicotinamide



Ascorbic Acid



Riboflavin



Nicotinic Acid

A fast separation of water soluble vitamins is accomplished with a HALO 2 HILIC column.