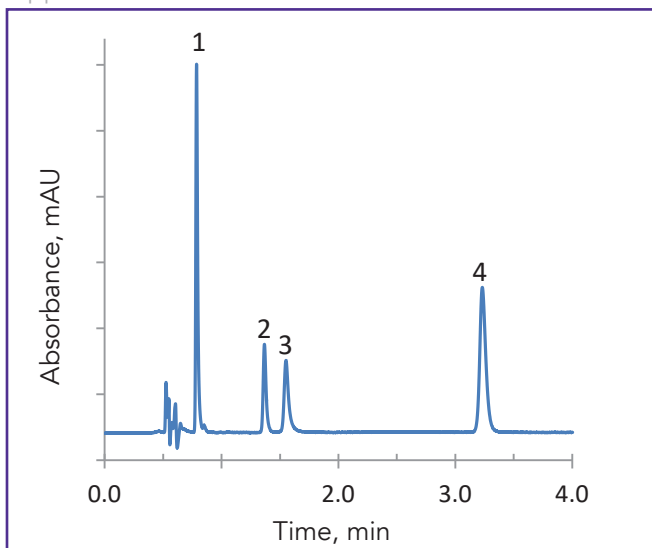




Separation of Water Soluble Vitamins on HALO[®] HILIC, 2.0 μ m

Application Note 120-F



PEAK IDENTITIES:

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

A fast separation of four water soluble vitamins is accomplished on a 2.0 μ m HALO[®] HILIC column.

TEST CONDITIONS:

Column: HALO 90 Å HILIC, 2.0 μ m,
2.1 x 100 mm

Part Number: 91812-601

Isocratic: 92/8 ACN/water with 5 mM
ammonium formate, pH 3.0

Flow Rate: 0.5 mL/min

Pressure: 220 bar

Temperature: 30 °C

Detection: UV 265 nm, PDA

Injection Volume: 0.3 μ L

Sample Solvent: 75/25 ACN/methanol
with 2% formic acid

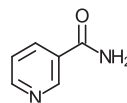
Response Time: 0.1 sec

Data Rate: 40 Hz

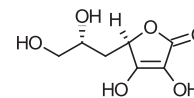
Flow Cell: 2.5 μ L semi-micro

LC System: Agilent 1200 SL

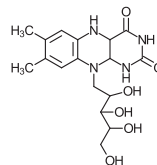
STRUCTURES:



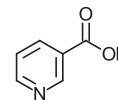
Nicotinamide



Ascorbic Acid



Riboflavin



Nicotinic Acid

