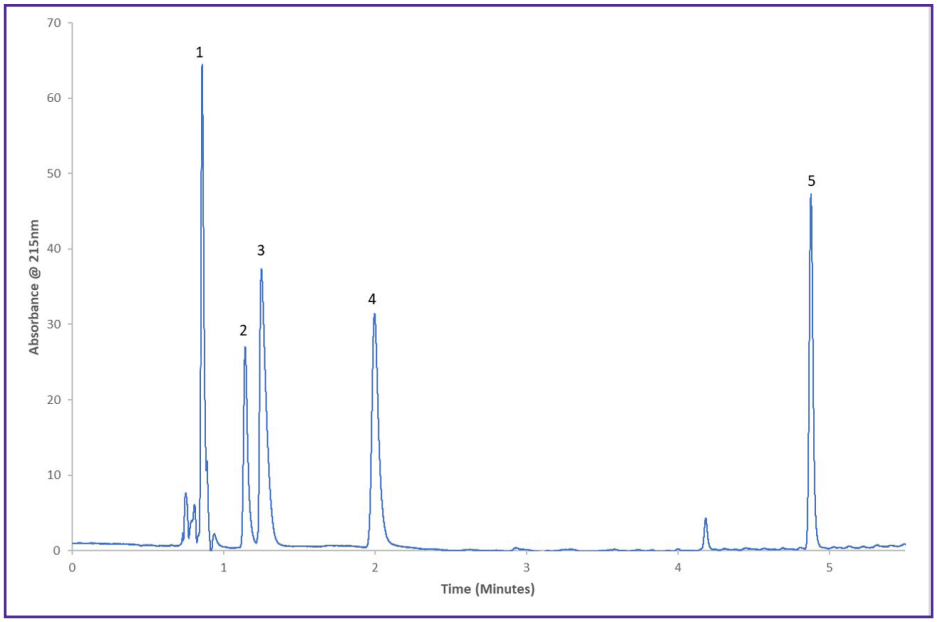
HALO®

VITAMINS

Water-Soluble Vitamin Analysis Using the HALO® 1.5 mm ID AQ-C18 Column

322



PEAK IDENTITIES:

1. Thiamine (B1)
2. Ascorbic Acid (C)
3. Nicotinamide (B3)
4. Pyridoxine (B6)
5. Cyanocobalamin (B12)

TEST CONDITIONS:

Column: HALO 90 Å AQ-C18, 2.7 µm 1.5 x 150 mm
Part Number: 9281X-722
Mobile Phase A: 25mM Potassium Phosphate, pH=2.5
Mobile Phase B: MeOH
Gradient:

Time	%B
0.00	0
1.00	0
6.00	70
10.00	70
10.10	0

Flow Rate: 0.2 mL/min
Pressure: 367 Bar
Temperature: 30 °C
Detection: UV 215 nm, PDA
Injection Volume: 3 µL
Sample Solvent: Water
Data Rate: 100 Hz
Response Time: 0.025 sec.
Flow Cell: 1 µL
LC System: Shimadzu Nexera X2

Water soluble vitamins are separated on a HALO® 1.5 mm ID AQ-C18 column. With the AQ-C18 phase separations can be run under totally or mostly aqueous conditions. Water soluble vitamins require high percentages of water in order to stay dissolved. By starting the gradient at 100% aqueous with a hold of 1 minute at the start, all 4 of the water soluble vitamins can be separated.

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