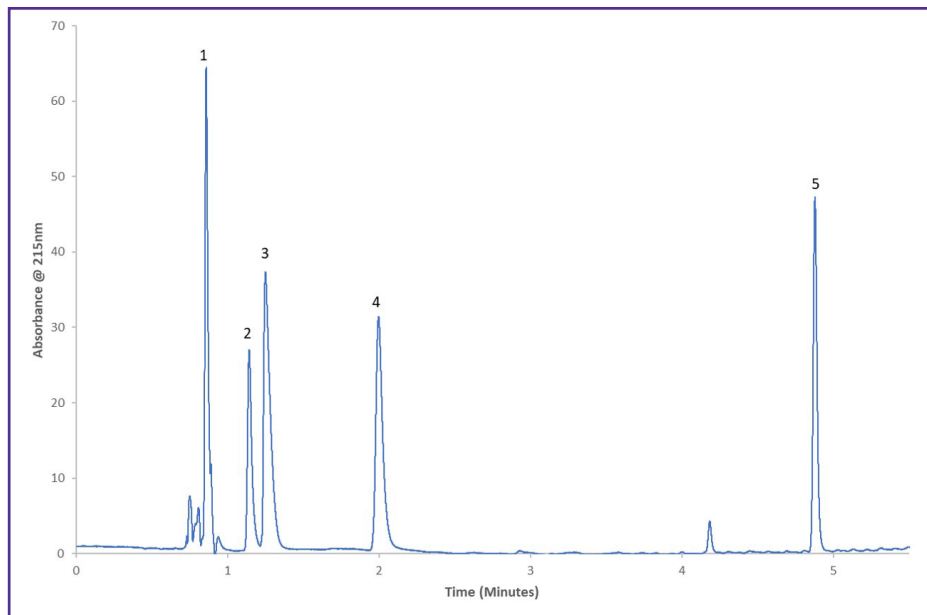




Water-Soluble Vitamin Analysis Using the HALO® 1.5 mm ID AQ-C18 Column

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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.

