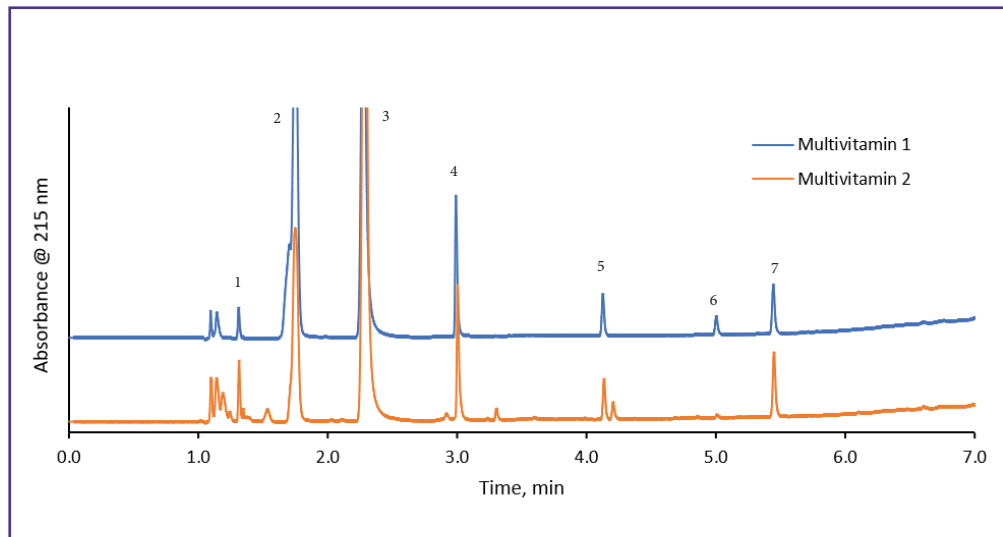




Separation of Water Soluble Vitamins Found in Multivitamins

253-V



PEAK IDENTITIES

1. Thiamine (B1)
2. Ascorbic acid (C)
3. Nicotinamide (B3)
4. Pyridoxine (B6)
5. Pantothenic acid (B5)
6. Folic acid (B9)
7. Riboflavin (B2)

TEST CONDITIONS:

Column: HALO 90 Å AQ-C18, 2.7 μm , 4.6 x 150 mm

Part Number: 92814-722

Mobile Phase A: 25mM Potassium Phosphate, pH: 2.5

Mobile Phase B: Methanol

Gradient:	Time (min)	%B
	0.0	0
	1.0	0
	6.0	70
	10.0	70

Flow Rate: 1.2 mL/min

Initial Back Pressure: 243 bar

Temperature: 30 °C

Detection: UV 215 nm, PDA

Injection Volume: 2.0 μL

Sample Solvent: Water

Data Rate: 100 Hz

LC System: Shimadzu Nexera X2

HALO® AQ-C18 columns can be used with high or completely aqueous mobile phases making the column an ideal candidate for separating water-soluble vitamins. Seven water-soluble multivitamins are well-separated from multivitamin tablets in under six minutes using a 100% aqueous isocratic hold. Minor differences are seen between the two samples, varying in each component's concentration.

