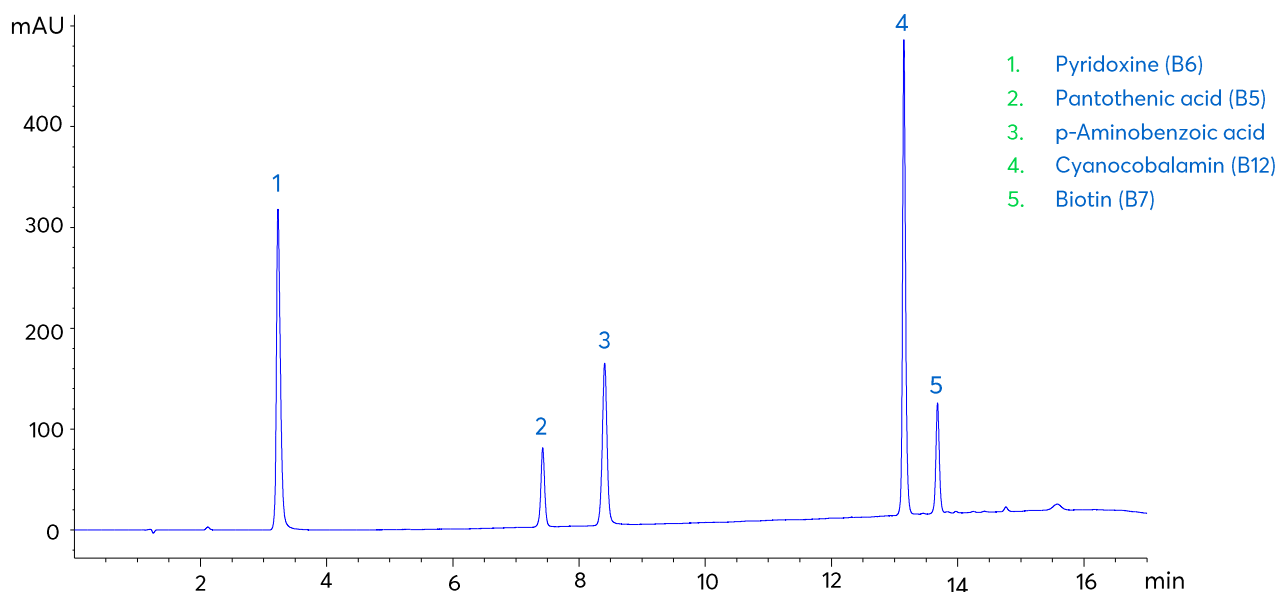


Application note #7670

UHPLC Separation of Vitamins using an Avantor® ACE® Generix® Phenyl-Hexyl



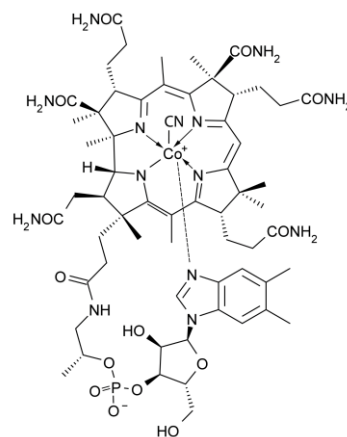
Method Details

CONDITIONS

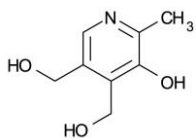
Column:	Avantor® ACE® Generix® 1.8 Phenyl-Hexyl
Particle Size:	1.8 µm
Dimensions:	100 x 2.1 mm
Mobile phase	A: 20 mM KH ₂ PO ₄ pH 2.7 in H ₂ O B: 20 mM KH ₂ PO ₄ pH 2.7 in MeOH/H ₂ O 50:50 v/v
Gradient:	

Time (mins)	% B
0.0	5
10.0	95
13.0	95
13.5	5
24.0	5

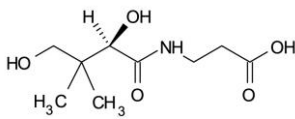
Flow Rate:	0.2 mL/min
Injection:	2 µL
Temperature:	30 °C
Detection:	UV, 210 nm



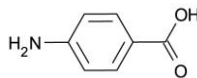
Cyanocobalamin (B12)



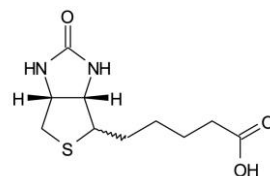
Pyridoxine (B6)



Pantothenic acid (B5)



p-Aminobenzoic acid



Biotin (B7)

ORDERING TABLE

Product	Details	Size	Part Number
Avantor® ACE® Generix® 1.8 Phenyl-Hexyl	UHPLC Column	100 x 2.1 mm	GEN-18PHEX-1002U
Methanol	VWR CHROMANORM® gradient grade	2.5 L	20864.320
Water	VWR CHROMANORM® super gradient grade	2.5 L	83650.320
Potassium dihydrogen phosphate	VWR CHROMANORM® for HPLC	500 g	153184U