Waters
THE SCIENCE OF WHAT'S POSSIBLE.™

APPLICATION HIGHLIGHT:
ACQUITY UPLC Analysis of Water Soluble Vitamins

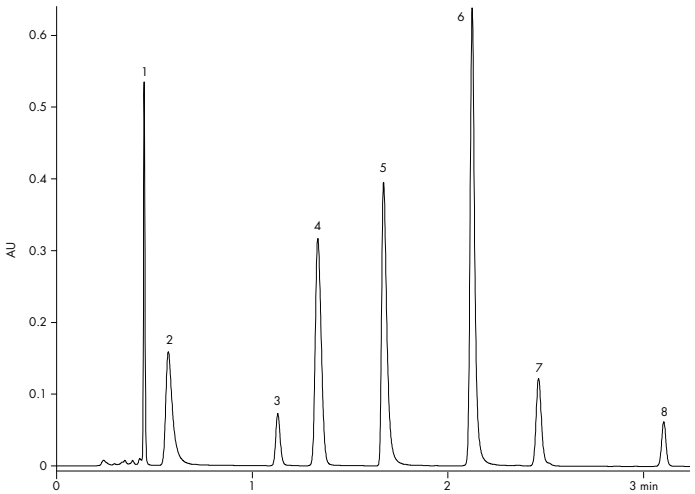
CLICK ON THE UNDERLINED BLUE TEXT FOR DETAILS ON THE PRODUCTS USED IN THIS APPLICATION

TEST CONDITIONS

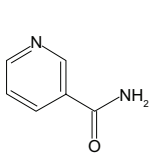
Column:	ACQUITY UPLC® BEH Amide, 2.1 x 50 mm, 1.7 µm
Part Number:	186004800
Mobile Phase A:	50/50 MeCN/H_2O with 10 mM CH_3COONH_4 and 0.04 % NH_4OH, pH 9.0
Mobile Phase B:	90/10 MeCN/H_2O with 10 mM CH_3COONH_4 and 0.04 % NH_4OH, pH 9.0
Flow Rate:	0.5 mL/min
Gradient:	

Time (min)	Profile %A	%B
Initial	0.1	99.9
3.50	70.0	30.0
3.51	0.1	99.9
7.50	0.1	99.9

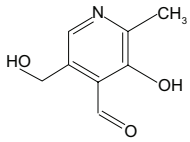
Injection Volume:	5 µL (PLNO)
Sample Diluent:	75/25 MeCN/MeOH with 0.2% HCOOH
Column Temperature:	30 °C
Weak Needle Wash:	95/5 MeCN/H_2O
Detection:	UV @ 265nm
Sampling Rate:	20 points/sec
Filter Time Constant:	0.2
Instrument:	Waters ACQUITY UPLC with ACQUITY UPLC PDA Detector



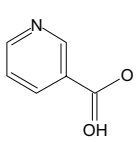
STRUCTURES



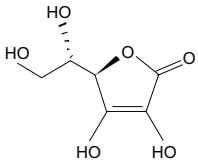
Nicotinamide



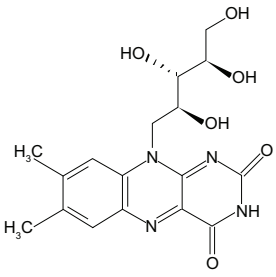
Pyridoxal



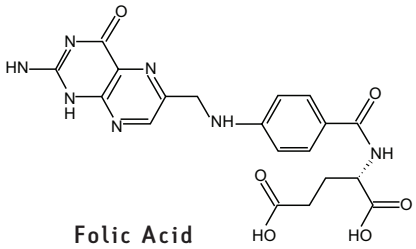
Nicotinic acid



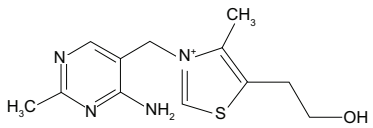
Ascorbic acid



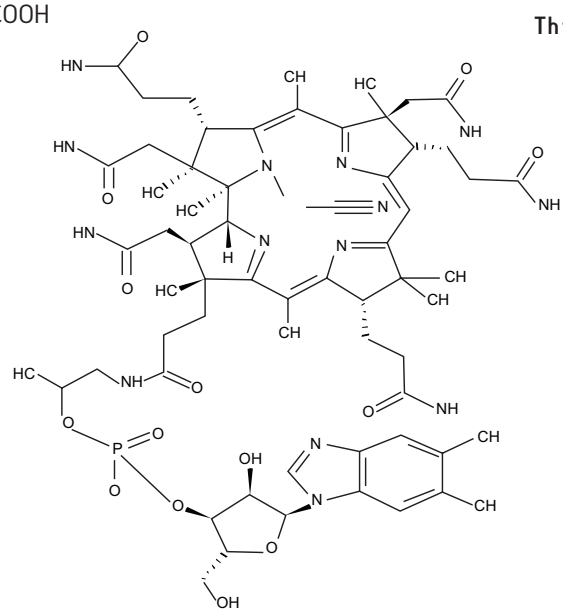
Riboflavin



Folic Acid



Thiamine



B12

COMPOUNDS

1. Nicotinamide (25 µg/mL)
2. Pyridoxal (50 µg/mL)
3. Riboflavin (50 µg/mL)
4. Nicotinic acid (50 µg/mL)
5. Thiamine (50 µg/mL)
6. Ascorbic acid (25 µg/mL)
7. B12 (50 µg/mL)
8. Folic Acid (25 µg/mL)

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