

Determination of water soluble Vitamins with AZURA Compact

Method VFD0109J
HPLC HILIC mode

Column: Eurospher II 100-5 HILIC, 150 x 3 mm ID

Order No. 15CE120E2J

Phase: Eurospher II 100-5 HILIC

Conditions: Eluent: A: 25 mM NH₄-acetate pH 4
B: Acetonitrile
Gradient: 0.0 – 0.7 min 20 % A
0.7 – 1.4 min 20 – 30 % A
1.4 – 5 min 30 % A
Flow rate: 1.0 ml/min
Temperature: 25 °C
Volume: 10 µL

Detection: UVD 2.1L with 10 mm flow cell: 254 nm, 20 Hz, 0,5s

Substances: Pyridoxal (Vitamin B₆), Folic acid (Vitamin B₉), Ascorbic acid (Vitamin C), Nicotinic acid (Vitamin B₃), Thiamine (Vitamin B₁), Cyanocobalamine (Vitamin B₁₂)

Keywords: Vitamins, AZURA Compact, HILIC

Chromatogram:

- 1 Pyridoxal (Vitamin B₆)
LOD: 0,5 µg/ml
- 2 Folic acid (Vitamin B₉)
LOD: 68 µg/ml
- 3 Ascorbic acid (Vitamin C)
LOD: 10 µg/ml
- 4 Nicotinic acid (Vitamin B₃)
LOD: 0,3 µg/ml
- 5 Thiamine (Vitamin B₁)
LOD: 0,3 µg/ml
- 6 Cyanocobalamine (Vitamin B₁₂)
LOD: 0,7 µg/ml

