

Vitamins and Polar Molecules - Water Soluble

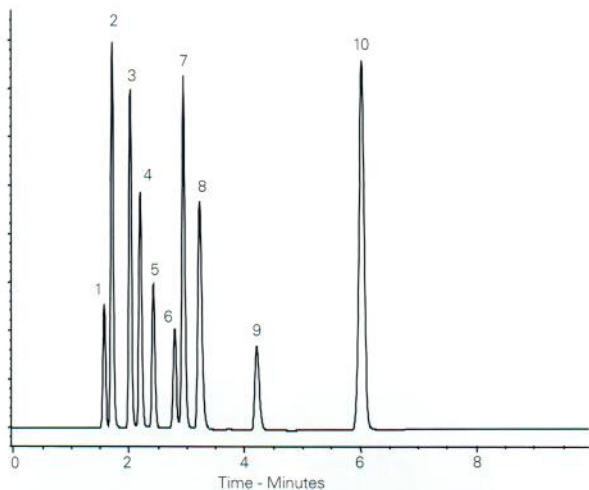
Application #AN1850

Conditions

Column: ACE 3 C18-AR
Dimensions: 150 x 4.6 mm
Part Number: ACE-119-1546
Mobile Phase: 0.1 % phosphoric acid in H₂O/MeOH (96.5:3.5 v/v)
Flow Rate: 1 mL/min
Injection: 2 µL
Temperature: 22 °C
Detection: UV, 260 nm

Analytes

1. Pyridoxamine (Vitamin B6)
2. Thiamine (Vitamin B1)
3. Isonicotinamide
4. Nicotinamide
5. L-Ascorbic acid (Vitamin C)
6. Orotic Acid
7. Hypoxanthine
8. Pyridoxal (Vitamin B6)
9. Pyridoxine (Vitamin B6)
10. p-Aminobenzoic acid



Water Soluble Artificial Colours

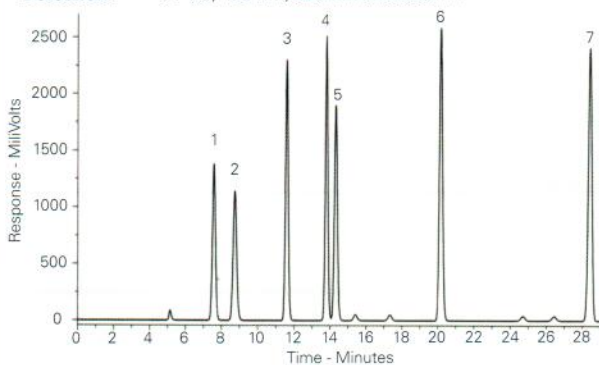
Application #AN3010

Conditions

Column: ACE 3 C18
Dimensions: 100 x 4.6 mm
Part Number: ACE-111-1046
Mobile Phase: A: 3 mM tetrabutylammonium bromide and 5 mM KH₂PO₄ in H₂O
 B: 5 mM tetrabutylammonium bromide in MeOH
Gradient: Time (mins) %B
 0 45
 20 70
 30 45
 40 45
Flow Rate: 0.8 mL/min
Injection: 10 µL
Temperature: Ambient
Detection: UV-Vis, 420 nm, 520 nm and 600 nm

Analytes

1. Amaranth
2. Sunset Yellow
3. Allura Red
4. Red 2G
5. Ponceau 4R
6. Carmoisine
7. Erythrosine



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Whey Proteins from Whole Milk

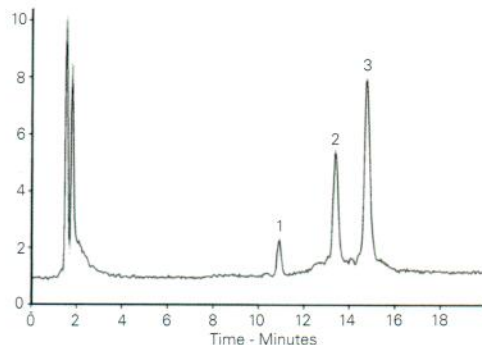
Application #AN3000

Conditions

Column: ACE 3 C4-300
Dimensions: 150 x 2.1 mm
Part Number: ACE-213-1502
Mobile Phase: A: 0.5% formic acid in H₂O
 B: 0.5% formic acid in MeCN
Gradient: Time (mins) %B
 0 35
 16 43
 17 80
 20 80
 21 35
 31 35
Flow Rate: 0.4 mL/min
Injection: 10 µL
Temperature: 40 °C
Detection: ESI-MS (+ve)

Analytes

1. α-Lactalbumin
2. β-Lactoglobulin B
3. β-Lactoglobulin A



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