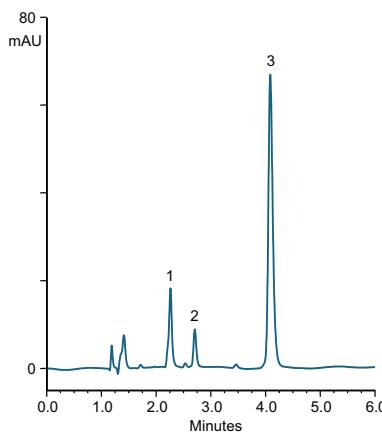


Organic Acid Analysis Using Acclaim Surfactant Plus



Column: Thermo Scientific™ Acclaim™ Surfactant Plus, 3 μ m
Dimensions: 3.0 \times 150 mm
LC System: Thermo Scientific™ Dionex™ UltiMate™ 3000RS
Mobile Phases: A: Acetonitrile
B: Water
C: 100 mM ammonium acetate, pH 5.2
Isocratic: 30% A, 60% B, 10% C
Flow: 0.60 mL/min
Temperature: 30 °C
Injection: 4 μ L
Detector: UV at 220 nm
Samples: standards 50 μ g/mL in 85% acetonitrile
Peaks: 1. Sorbate
2. Oxalate
3. Ascorbate

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Analysis of organic acids is important in many areas, including metabolic studies and food analysis. The separation of ascorbate (vitamin C) and its decomposition product oxalate are a common situation. The Acclaim Surfactant Plus provides hydrophobic interaction and ion exchange mixed-mode retention mechanisms, which offers the ideal selectivity for a wide variety of analytes, such as organic acids using MS-friendly mobile phases.