Application Report 193

Analysis of Ascorbic Acid and Dehydroascorbic Acid Using Ascentis™ RP-Amide

This application demonstrates the suitability of Ascentis RP-Amide for the efficient separation of ascorbic acid and dehydroascorbic acid by HPLC.

Key Words
Ascentis RP-Amide, 565324-U, ascorbic acid, A4403, 50-81-7, dehydroascorbic acid, 261556, 490-83-5

Conditions
- column: Ascentis RP-Amide, 15 cm x 4.6 mm I.D., 5 µm particles (565324-U)
- mobile phase: 25 mM monobasic potassium phosphate (pH 3.0 with phosphoric acid)
- flow rate: 1 mL/min
- temp.: 35 °C
- det.: UV, 230 nm
- injection: 10 µL
- sample: as listed each in mobile phase

Peak IDs
1. Dehydroascorbic acid (100 µg/mL)
2. Ascorbic acid (20 µg/mL)

Structures
- Dehydroascorbic acid - G002719
- Ascorbic acid - G002720

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