

IC Application Note No. C-48

Title: Five cations in alcohol-free beer with strawberry flavor

Summary: Determination of sodium, ammonium, potassium, calcium and magnesium in alcohol-free beer with strawberry flavor using cation chromatography with direct conductivity detection.

Sample: Alcohol-free beer with strawberry flavor

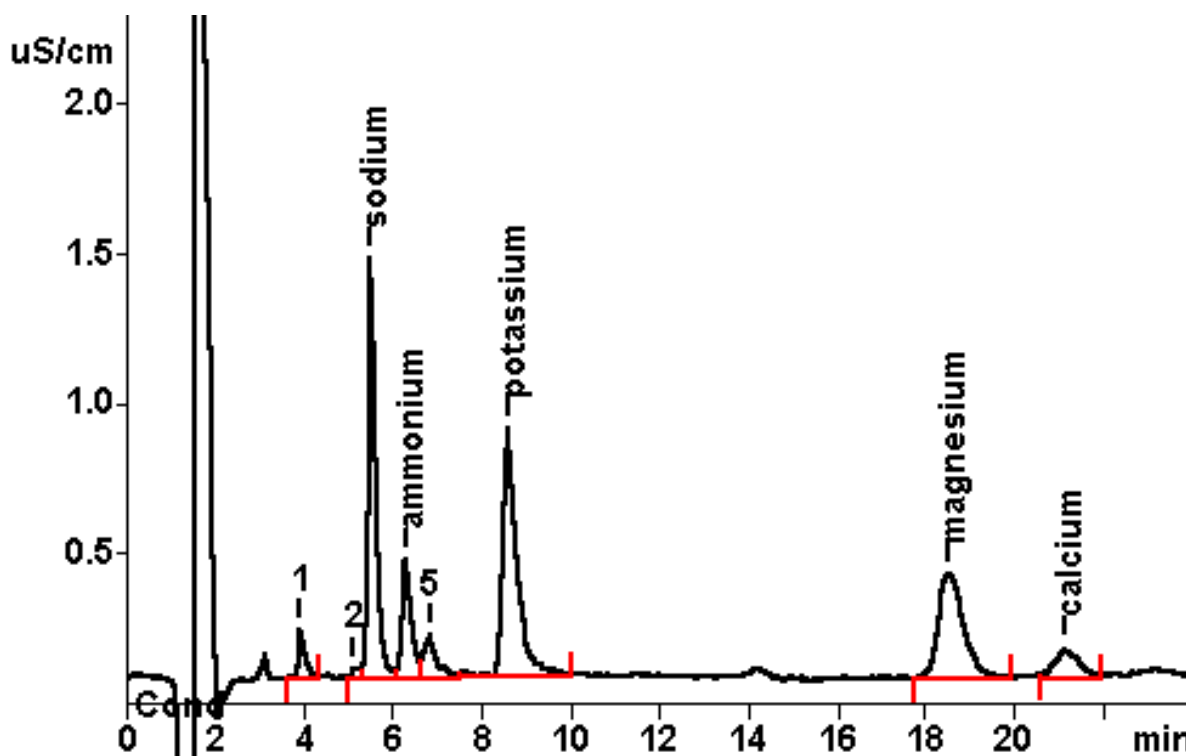
Sample Preparation: Filtration (0.45 µm), dilution 1 : 10 with 3 mmol/L HNO₃

Column: 6.1010.220 Metrosep C 2-150

Eluent: 5.0 mmol/L tartaric acid, 0.09 mmol/L dipicolinic acid

Flow: 1.0 mL/min

Injection Volume: 10 µL



| Results: | Sodium mg/L | Ammonium mg/L | Potassium mg/L | Magnesium mg/L | Calcium mg/L |
|-----------------|----------------|------------------|-------------------|-------------------|-----------------|
| | 44.6 | 15.0 | 108 | 20.5 | 9.0 |