

IC Application Note No. C-102

Title: Standard cations in orange juice

Summary: Determination of sodium, potassium, magnesium and calcium in orange juice using cation chromatography with direct conductivity detection applying automated dilution and subsequent Metrohm Inline Ultrafiltration.

Sample: Orange juice

Sample Preparation: Direct injection of the centrifuged samples after Metrohm Inline Dilution (1:20) and Inline Ultrafiltration

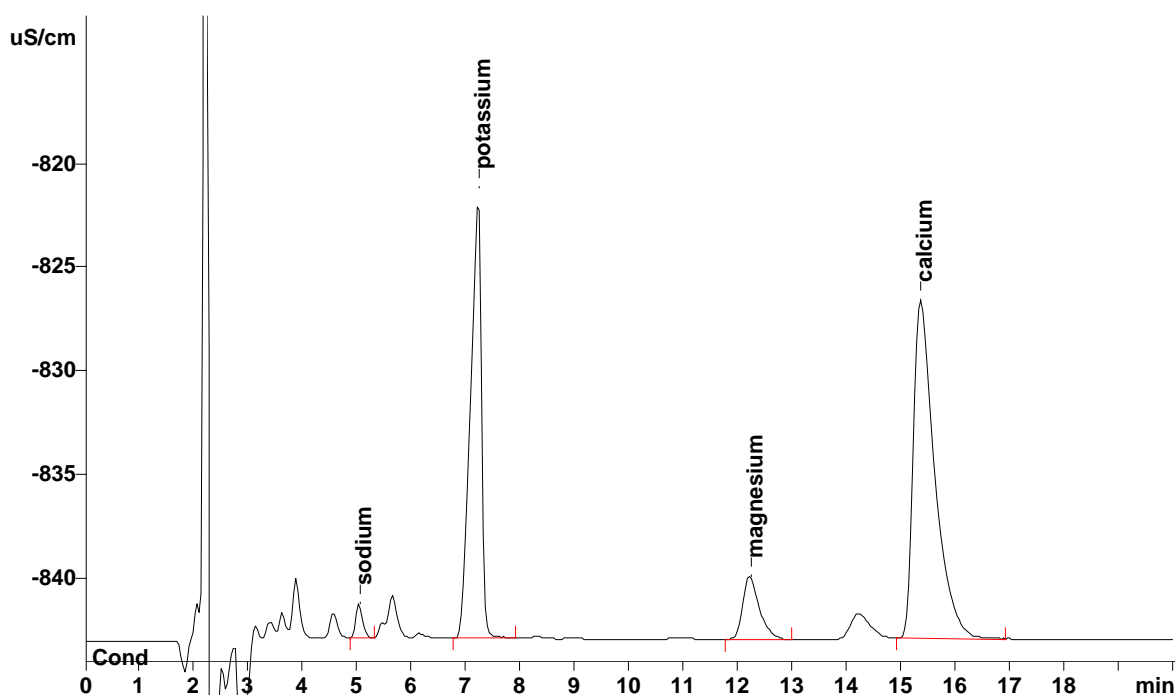
Column: 6.1010.430 Metrosep C 3 – 250

Eluent: 3.2 mmol/L nitric acid
15% acetone

Column Temperature: 40 °C

Flow: 1.0 mL/min

Injection Volume: 20 µL



| Results: | Sodium mg/L | Potassium mg/L | Magnesium mg/L | Calcium mg/L |
|-----------------|----------------|-------------------|-------------------|-----------------|
| | 24.0 | 956.9 | 63.1 | 729.7 |