

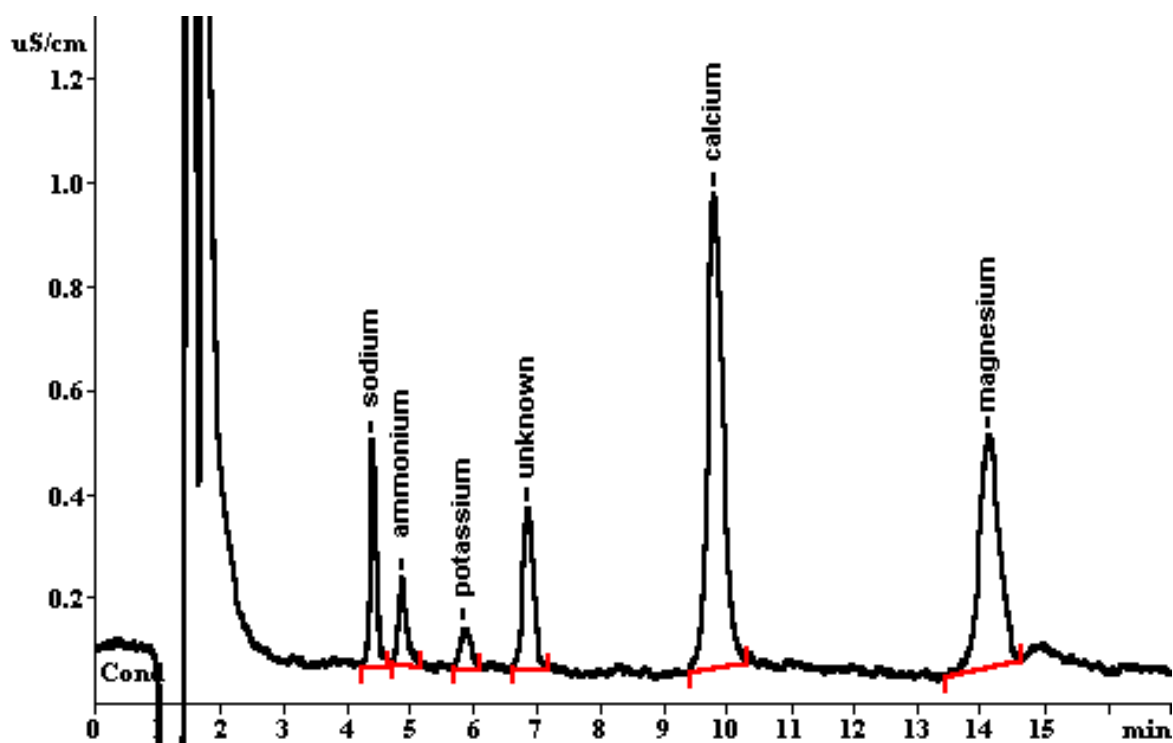
IC Application Note No. C-42

Title: Five cations in soil water

Summary: Determination of sodium, ammonium, potassium, calcium and magnesium in soil water samples using cation chromatography with direct conductivity detection.

Sample: Soil water samples
Sample Preparation: Injection through RP-18-cartridge

Column: 6.1010.100 Metrosep C 1
Eluent: 5.0 mmol/L tartaric acid, 1.0 mmol/L dipicolinic acid, 24 mmol/L boric acid
Flow: 1.0 mL/min
Injection Volume: 10 μ L



| Results: | Sodium mg/L | Ammonium mg/L | Potassium mg/L | Calcium mg/L | Magnesium mg/L |
|-----------------|----------------|------------------|-------------------|-----------------|-------------------|
| | 0.781 | 0.450 | 0.454 | 4.057 | 1.378 |