

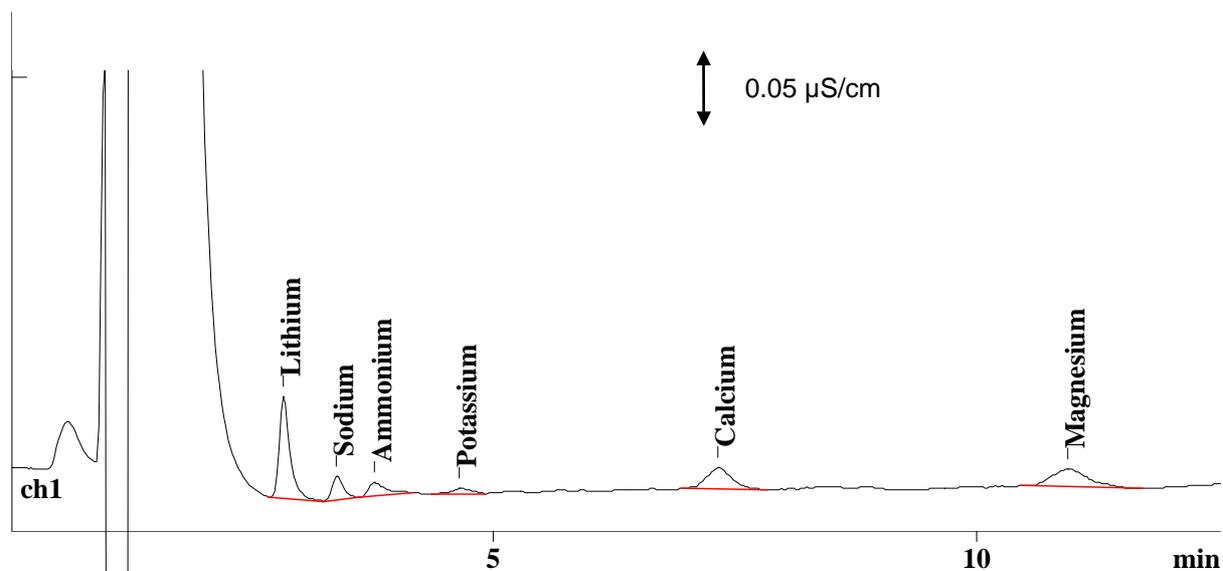
IC Application Note No. C-21

Title: Cation determination in the low ppb range

Summary: Determination of 5 ppb ($\mu\text{g/L}$) each of lithium, sodium, ammonium, potassium, calcium and magnesium using cation chromatography with direct conductivity detection.

Sample: Standard solution
Sample Preparation:

Column: 6.1010.000 Metrosep Cation 1-2
Eluent: 4 mmol/L tartaric acid, 1 mmol/L dipicolinic acid
Flow: 1.0 mL/min
Injection Volume: 100 μL



Results:	Li^+ $\mu\text{g/L}$	Na^+ $\mu\text{g/L}$	NH_4^+ $\mu\text{g/L}$	K^+ $\mu\text{g/L}$	Ca^{2+} $\mu\text{g/L}$	Mg^{2+} $\mu\text{g/L}$
		5	5	5	5	5