

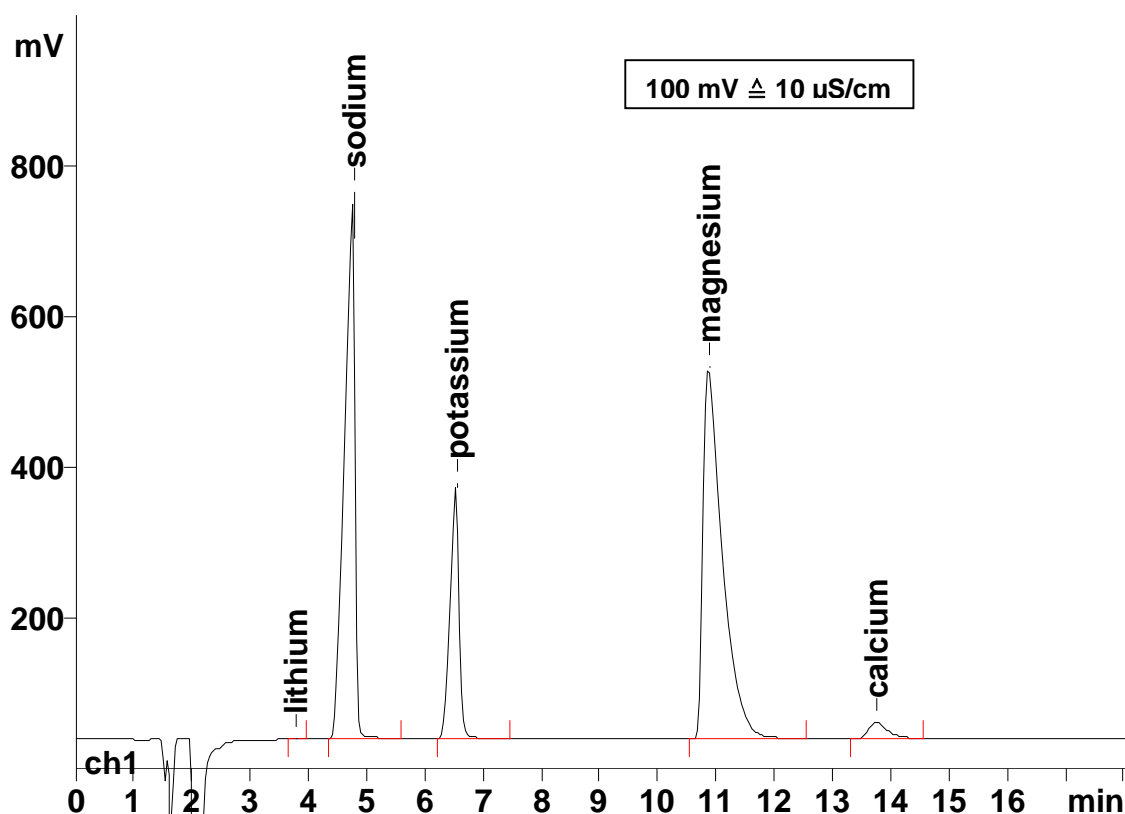
# IC Application Note No. C-103

**Title:** Standard cations in lake water on the Metrosep C 3 – 250 column

**Summary:** Determination of lithium, sodium, potassium, magnesium and calcium in lake water using cation chromatography with direct conductivity detection.

**Sample:** Lake water  
**Sample Preparation:** Direct injection after acidification (pH approx. 2.5) and filtration (0.45 µm)

**Column:** 6.1010.430 Metrosep C 3 – 250  
**Eluent:** 5.0 mmol/L nitric acid  
**Flow:** 1.0 mL/min  
**Injection Volume:** 10 µL



<b>Results:</b>	Lithium	Sodium mg/L	Potassium mg/L	Magnesium mg/L	Calcium mg/L
	n.q.	110	87	83	6.3