

IC Application Note No. C-115

Title: Five cations in tap water

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

Sample: Tap water

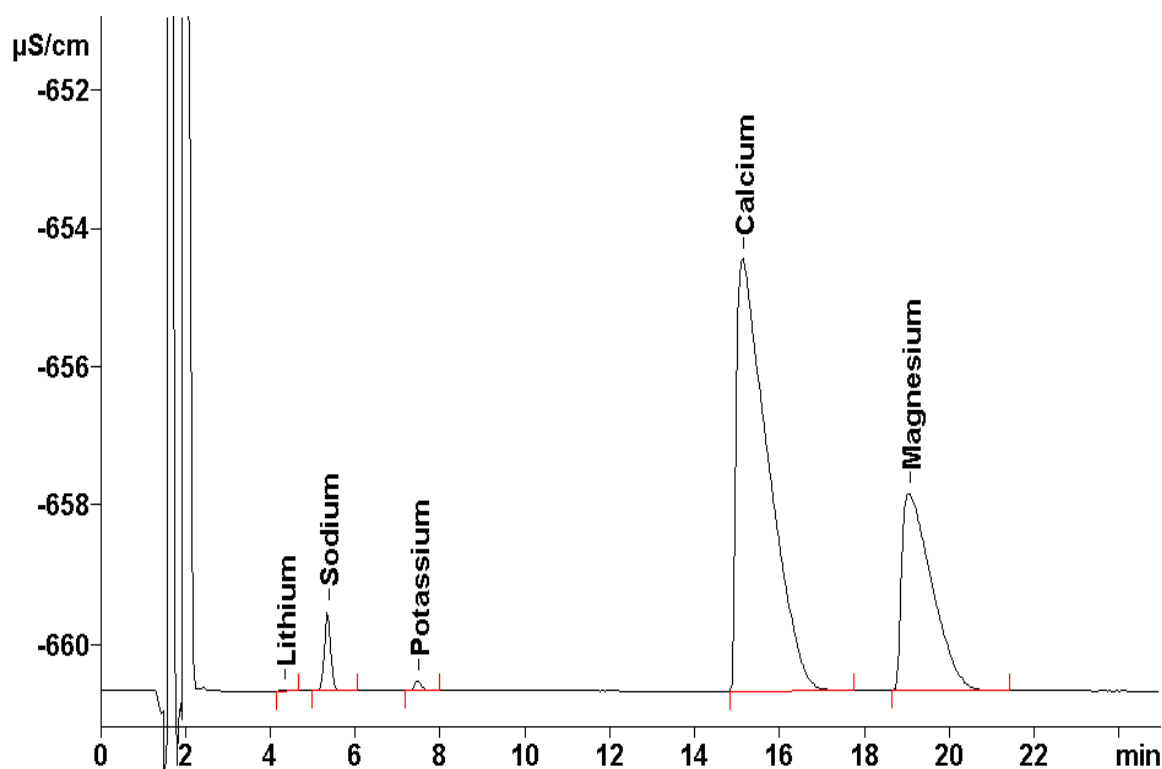
Sample Preparation: Acidification to pH = 3

Column: 6.1050.420 Metrosep C 4 – 150

Eluent: 1.7 mmol/L nitric acid
0.7 mmol/L dipicolinic acid

Flow: 0.9 mL/min

Injection Volume: 10 μ L



Results:	Lithium mg/L	Sodium mg/L	Potassium mg/L	Calcium mg/L	Magnesium mg/L
	0.001	2.10	0.53	65.2	14.1