

# IC Application Note No. C-26

**Title:** Five cations in blood serum

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

**Sample:** Blood serum

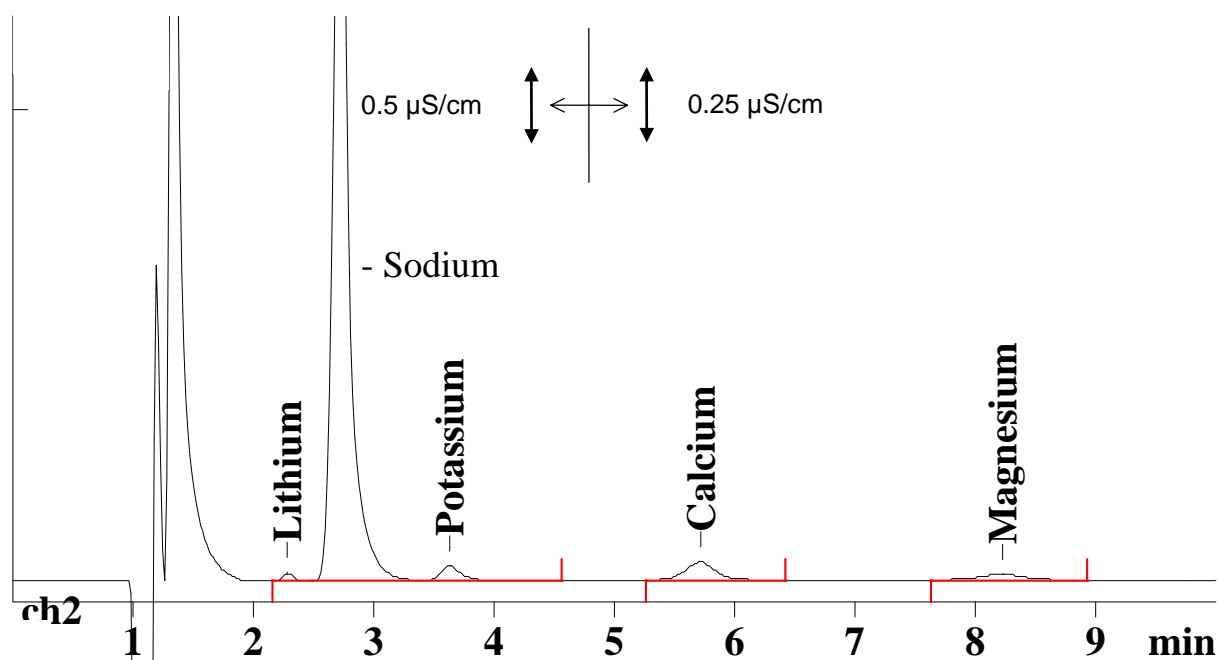
**Sample Preparation:** Dilution 1 : 100 with 1 mmol/L HNO<sub>3</sub>

**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:** 10 µL



<b>Results:</b>	Li <sup>+</sup>		Na <sup>+</sup>		K <sup>+</sup>		Ca <sup>2+</sup>		Mg <sup>2+</sup>	
	mg/L	mmol/L	mg/L	mmol/L	mg/L	mmol/L	mg/L	mmol/L	mg/L	mmol/L
	4.53	0.65	3186	138.4	163.1	4.17	78.29	1.95	16.56	0.68