

IC Application Note No. C-83

Title: Online monitoring of trace levels of cations in boiler feed water

Summary: Determination of trace levels of lithium, sodium, ammonium, potassium, magnesium and calcium in boiler feed water using cation chromatography with direct conductivity detection.

Sample: Boiler feed water

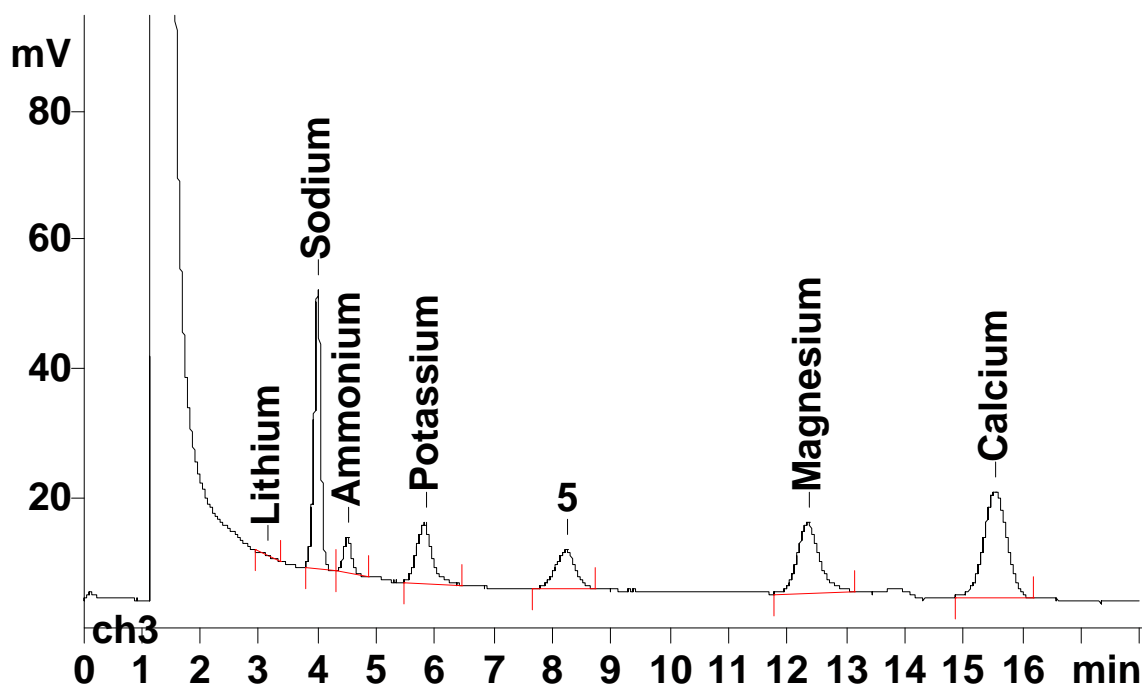
Sample Preparation: 10 mL preconcentrated (Metrosep C2 S-Guard, 6.1010.240)

Column: 6.1010.220 Metrosep C 2 – 150

Eluent: 2.5 mmol/L nitric acid

Flow: 1.0 mL/min

Injection Volume: 10 mL



Results:	Lithium µg/L	Sodium µg/L	Ammonium µg/L	Potassium µg/L	Magnesium µg/L	Calcium µg/L
	n.d.	0.74	0.12	0.70	0.33	0.84

See AN N-60 for the determination of silicate and AN S-206 for the determination of anions in boiler feed water