

IC Application Note No. C-90

Title:	Traces of zinc and iron(II) besides the standard cations
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Summary:	Determination of traces of zinc and iron(II) besides lithium, sodium, ammonium, potassium, calcium and magnesium in boiler water applying cation chromatography with direct conductivity detection.
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Sample:	Boiler water spiked with transition metals
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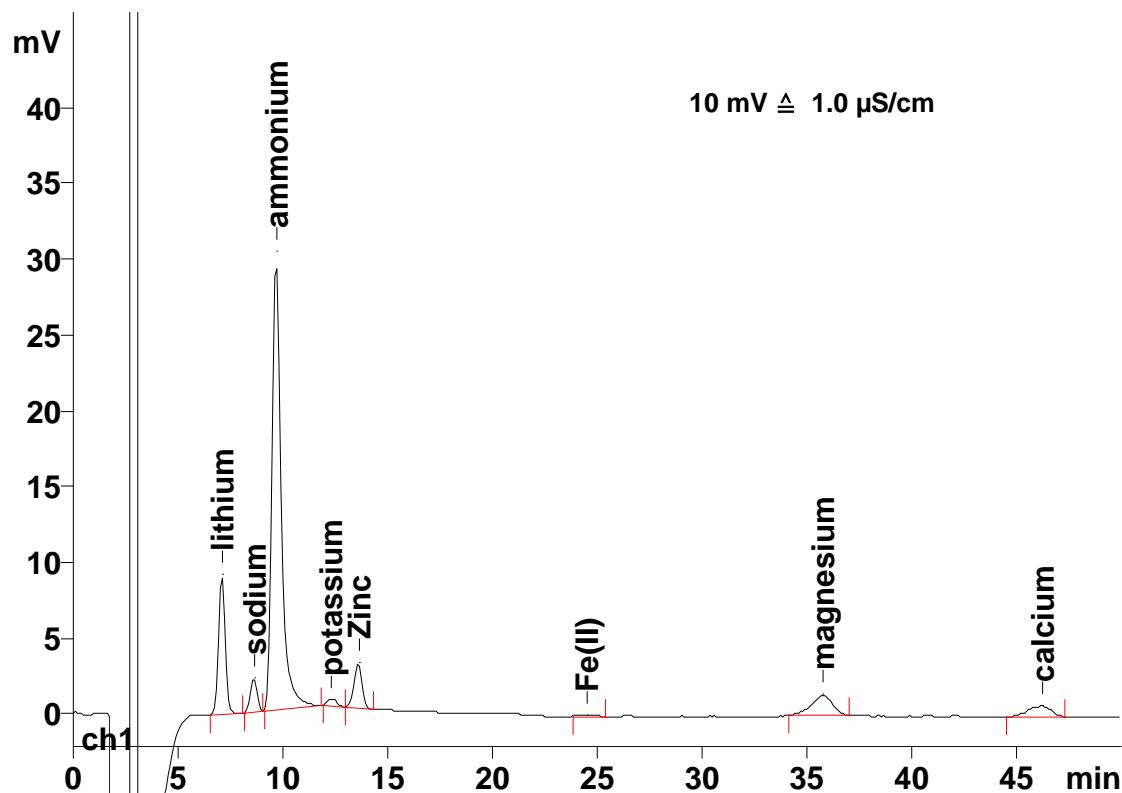
Sample Preparation:	Direct injection after inline ultrafiltration
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Column:	6.1010.230 Metrosep C 2 – 250
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Eluent:	1.75 mmol/L oxalic acid 2.0 mmol/L ascorbic acid
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Flow:	0.5 mL/min
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Injection Volume:	200 µL
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Results:	Lithium µg/L	Sodium µg/L	Ammonium µg/L	Potassium µg/L	Zinc µg/L	Iron(II) µg/L	Magnesium µg/L	Calcium µg/L
	24.6	19.9	25.3	24.7	2.51	19.3	9.42	8.31