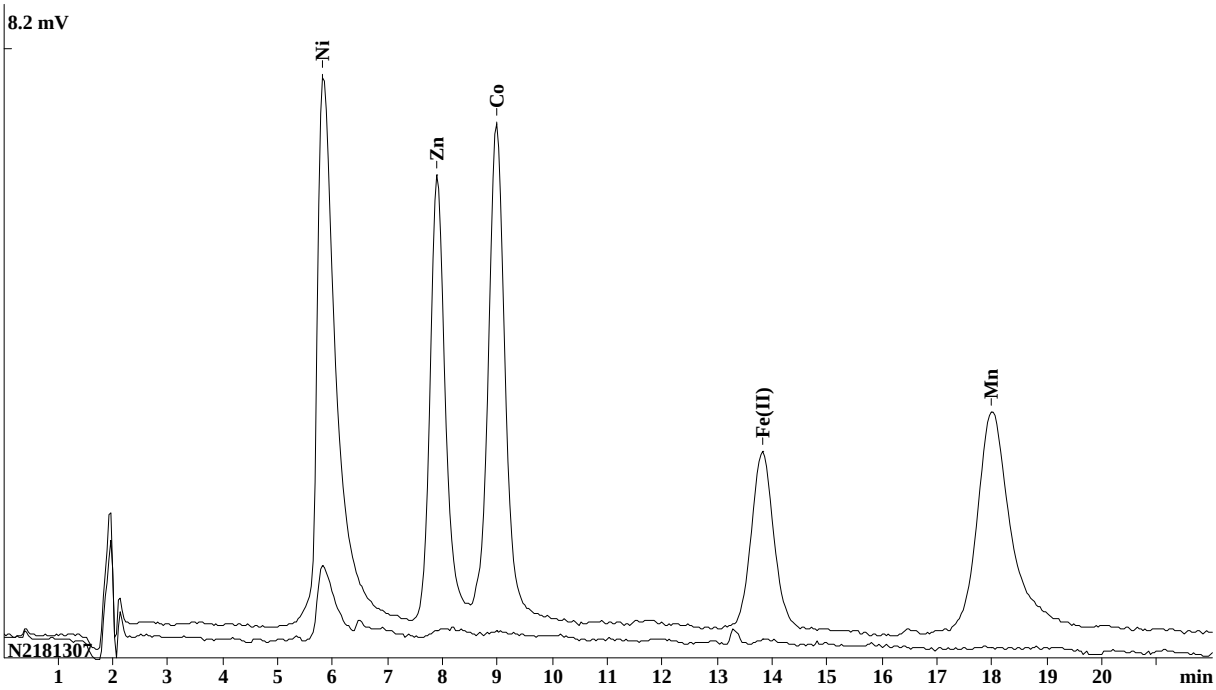
IC Application Note No. C-63

Title:	**Five cations in lithium bromide using post column reaction**

***Summary*:**	Determination of nickel, zinc, cobalt, iron(II) and manganese in lithium bromide using cation chromatography with UV/Vis detection (520 nm) after post column reaction with PAR.

Sample:	Lithium bromide
Sample Preparation:	1 g sample dissolved in 100 mL ultrapure water, further dilution 1 : 45 with 20 mmol/L ascorbic acid

Column:	6.1010.220 Metrosep C 2 – 150
Eluent:	1.75 mmol/L oxalic acid, 2.0 mmol/L ascorbic acid
Flow:	1.0 mL/min
PCR Flow:	0.4 mL/min
Injection Volume:	20 µL



Results:	Nickel µg/kg	Zinc	Cobalt	Iron (II)	Manganese
	995	**n.d.**	**n.d.**	**n.d.**	**n.d.**

Spiked chromatogram: injected sample solution spiked with 150 µg/L each (corresponding to approx. 7 mg/kg in the sample).