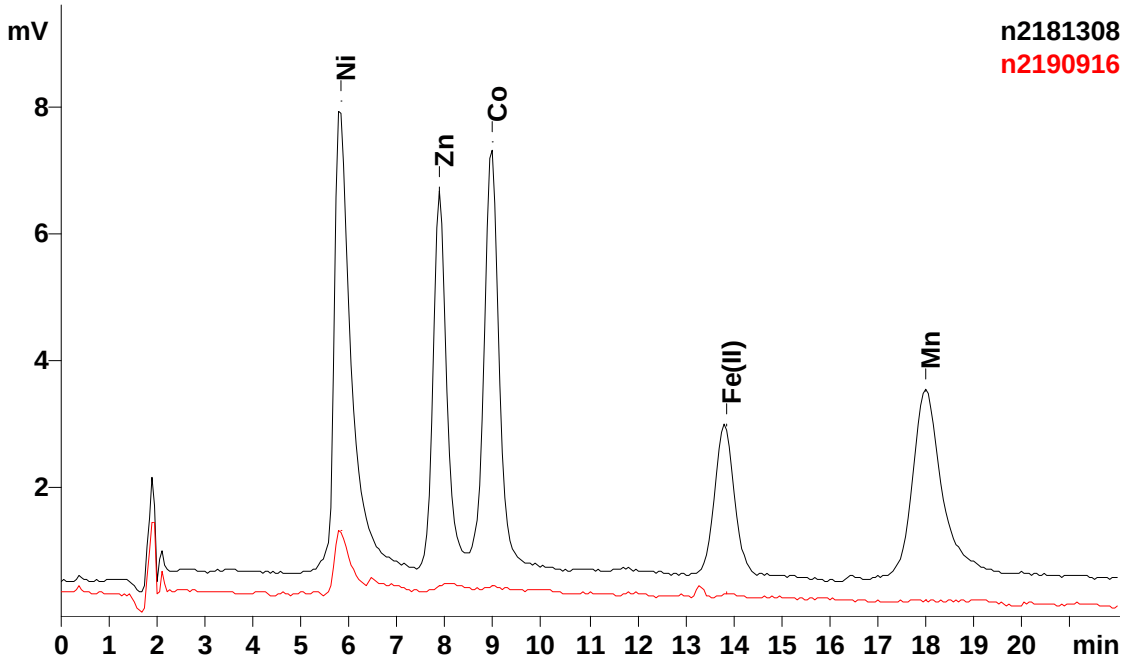
IC Application Note No. C-79

Title:	**Nickel, zinc, cobalt, iron(II) and manganese in lithium bromide using post-column reaction**

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

Sample:	Lithium bromide
Sample Preparation:	10 g/L lithium bromide diluted 1 : 45 with 20 mmol/L ascorbic acid

Column:	6.1010.220 Metrosep C 2 – 150
Eluent:	1.75 mmol/L oxalic acid acid, 2.0 mmol/L ascorbic acid
Flow:	1.0 mL/min
PCR reagent:	0.2 mmol/L PAR, 2.44 mol/L ammonia, 1 mol/L acetic acid
PCR Flow:	0.5 mL/min
Injection Volume:	20 µL



Results:	Nickel µg/L	Zinc µg/L	Cobalt µg/L	Iron(II) µg/L	Manganese µg/L
Sample (n2190916) in 10 g/L sol.	**995**	**n.d.**	**n.d.**	**n.d.**	**n.d.**
Spiked (n2181308) in injected sol.	**172**	**150**	**150**	**150**	**150**