

# IC Application Note No. S-134

**Title:** Trace anions in the presence of 1.0 g/L of chloride

**Summary:** Determination of bromide, sulfate and iodide in 1 g/L sodium chloride using anion chromatography with conductivity detection after chemical suppression.

**Sample:** 1 g/L NaCl spiked with 250 µg/L of the ions of interest

**Sample Preparation:** Direct injection

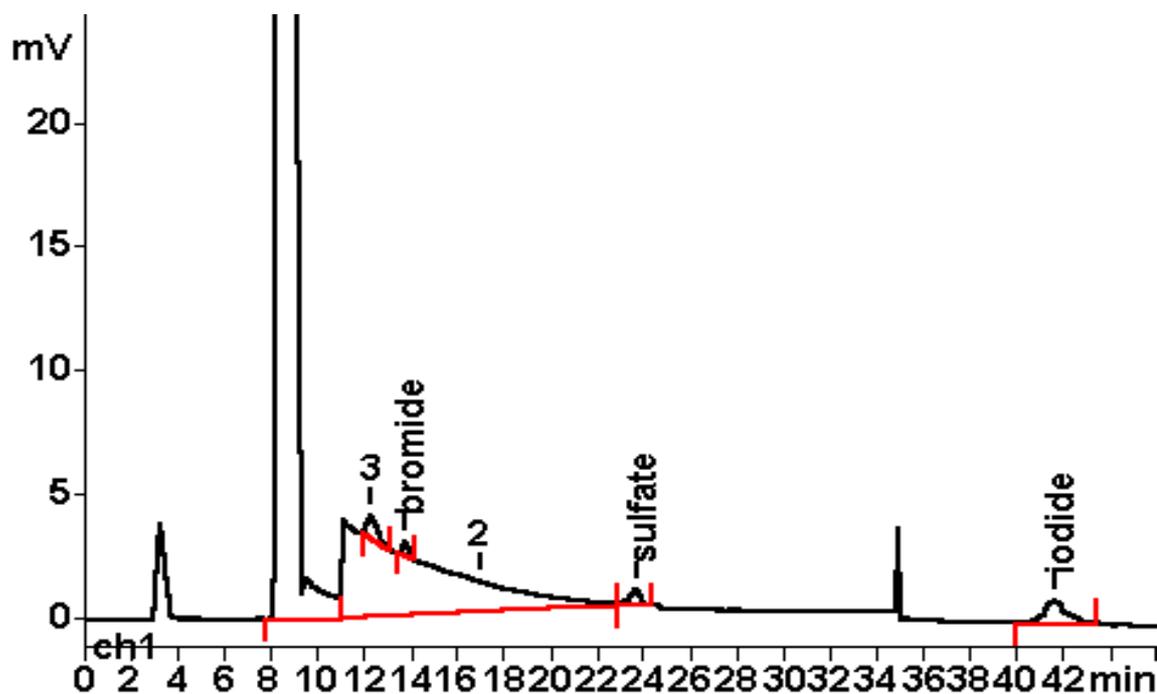
**Column:** 6.1006.530 Metrosep A SUPP 5-250

**Eluent:** 1.0 mmol/L sodium hydrogencarbonate,  
3.2 mmol/L sodium carbonate

**Suppressor:** MSM (50 mmol/L H<sub>2</sub>SO<sub>4</sub>)

**Flow:** 0.7 mL/min

**Injection Volume:** 20 µL



<b>Results:</b>	Chloride mg/L	Bromide mg/L	Sulfate mg/L	Iodide mg/l
	<b>1000</b>	<b>0.25</b>	<b>0.25</b>	<b>0.25</b>

Full Scale: 0 – 11 min. 500 µS/cm / 1000 mV  
11 – 35 min. 100 µS/cm / 1000 mV  
35 – 44 min. 10 µS/cm / 1000 mV