

IC Application Note No. S-62

Title: Fluoride, chloride, bromide and sulfate in bath salts (sea salt)

Summary: Determination of fluoride, chloride, bromide and sulfate in bath salts (sea salt) using anion chromatography with conductivity detection after chemical suppression.

Sample: Bath salts (sea salt)

Sample Preparation: 2.5 g salt dissolved in 250 mL ultrapure water; dilution 1 : 100

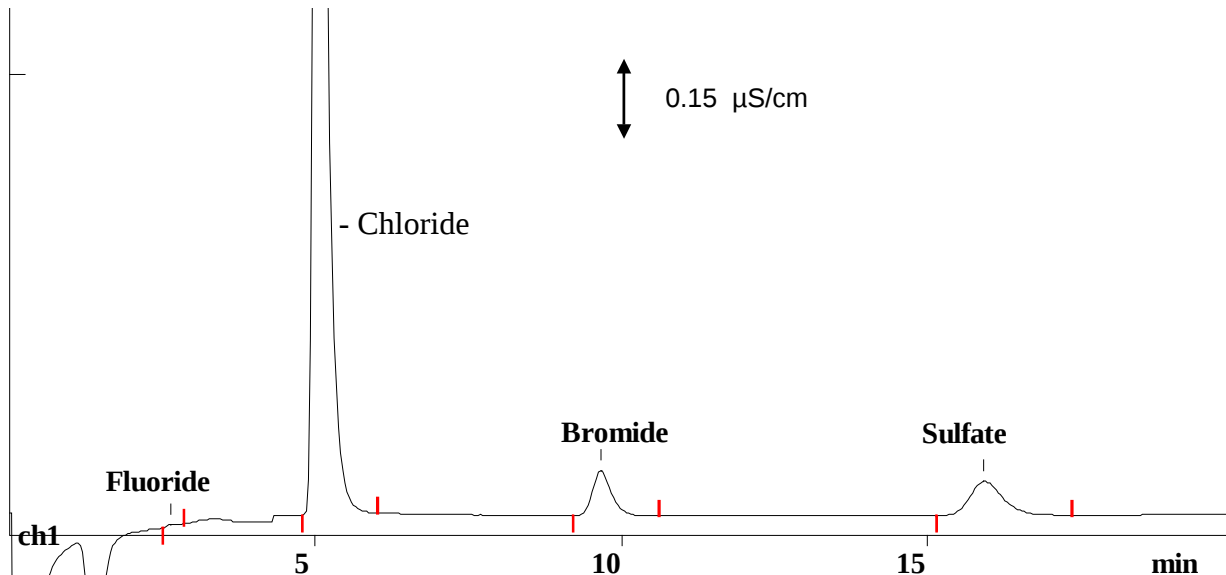
Column: 6.1006.100 Metrosep Anion Dual 2

Eluent: 2.0 mmol/L sodium hydrogencarbonate, 1.6 mmol/L sodium carbonate

Suppressor: Metrohm Suppressor Module (MSM, 50 mmol/L H₂SO₄)

Flow: 0.8 mL/min

Injection Volume: 20 µL



Chloride peak acquired with 10 times higher Full scale

Results:	Fluoride mg/g	Chloride mg/g	Bromide mg/g	Sulfate mg/g
	0.05	391	6.8	4.2