

IC Application Note No. S-53

Title: Four anions in boric acid

Summary: Determination of fluoride, chloride, phosphate and sulfate in boric acid using anion chromatography with conductivity detection after chemical suppression.

Sample: Boric acid 4 % spiked with anions

Sample Preparation:

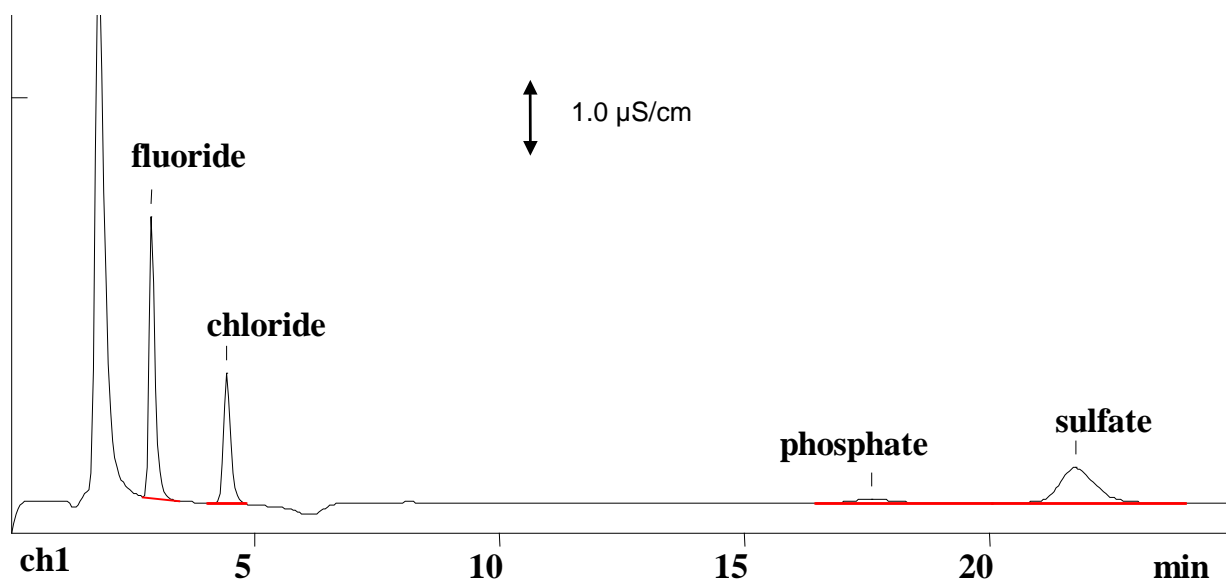
Column: 6.1006.100 Metrosep Anion Dual 2

Eluent: 7.0 mmol/L sodium hydroxide,
10 mmol/L boric acid

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

Flow: 0.8 mL/min

Injection Volume: 100 μ L



Results:	F ⁻ mg/L	Cl ⁻ mg/L	HPO ₄ ²⁻ mg/L	SO ₄ ²⁻ mg/L
	0.4	0.4	0.25	0.8