

IC Application Note No. S-14

Title: Selectivity of Metrosep Anion Dual 2 using a carbonate / hydrogencarbonate eluent with addition of acetone

Summary: Separation of fluoride, chloride, nitrite, bromide, nitrate, sulphite, phosphate, sulphate, oxalate, iodide, thiosulphate, thiocyanate and perchlorate using anion chromatography with conductivity detection after chemical suppression.

Sample: Standard solutions

Sample Preparation: -

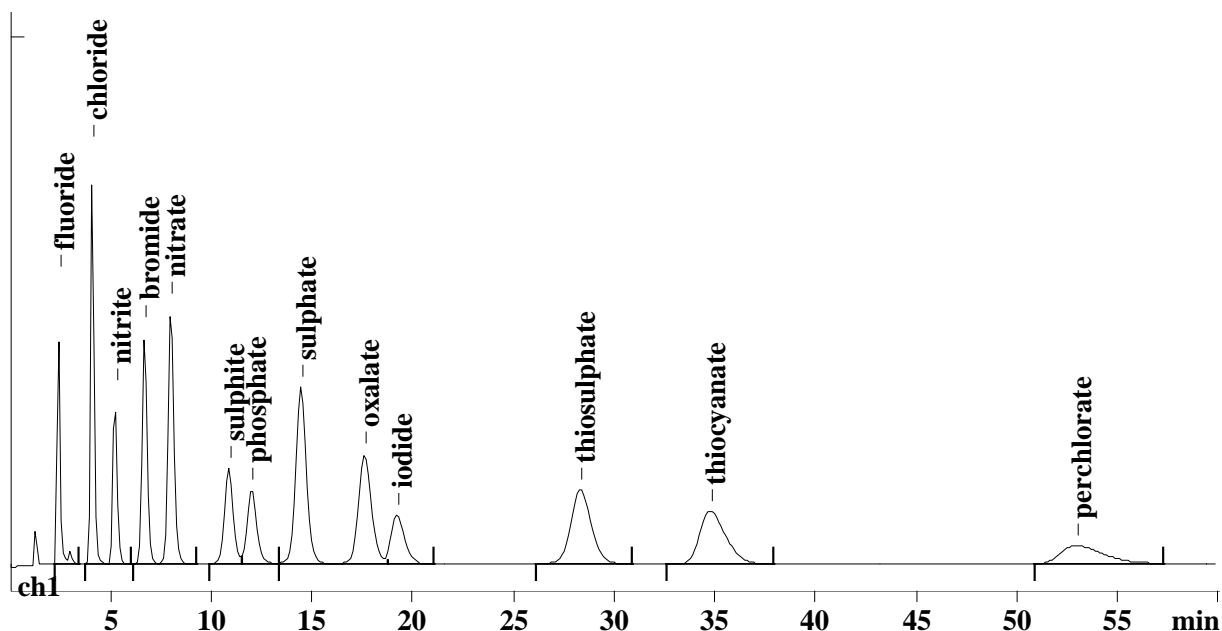
Column: 6.1006.100 Metrosep Anion Dual 2

Eluent: 2 mmol/L sodium hydrogencarbonate,
1.8 mmol/L sodium carbonate, 15 % Acetone

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

Flow: 0.8 mL/min

Injection Volume: 20 µL



Results:	F ⁻ mg/L	Cl ⁻ , NO ₂ ⁻ mg/L	Br ⁻ , NO ₃ ⁻ , SO ₃ ²⁻ , HPO ₄ ²⁻ , SO ₄ ²⁻ , C ₂ O ₄ ²⁻ , I ⁻ , S ₂ O ₃ ²⁻ , SCN ⁻ , ClO ₄ ⁻ mg/L
		2	5