

IC Application Note No. S-9

Title: Six standard anions in soil eluate

Summary: Determination of fluoride, chloride, nitrite, nitrate and sulfate in soil eluates using anion chromatography with conductivity detection after chemical suppression.

Sample: Aqueous soil eluates

Sample Preparation: Dilution 1:200

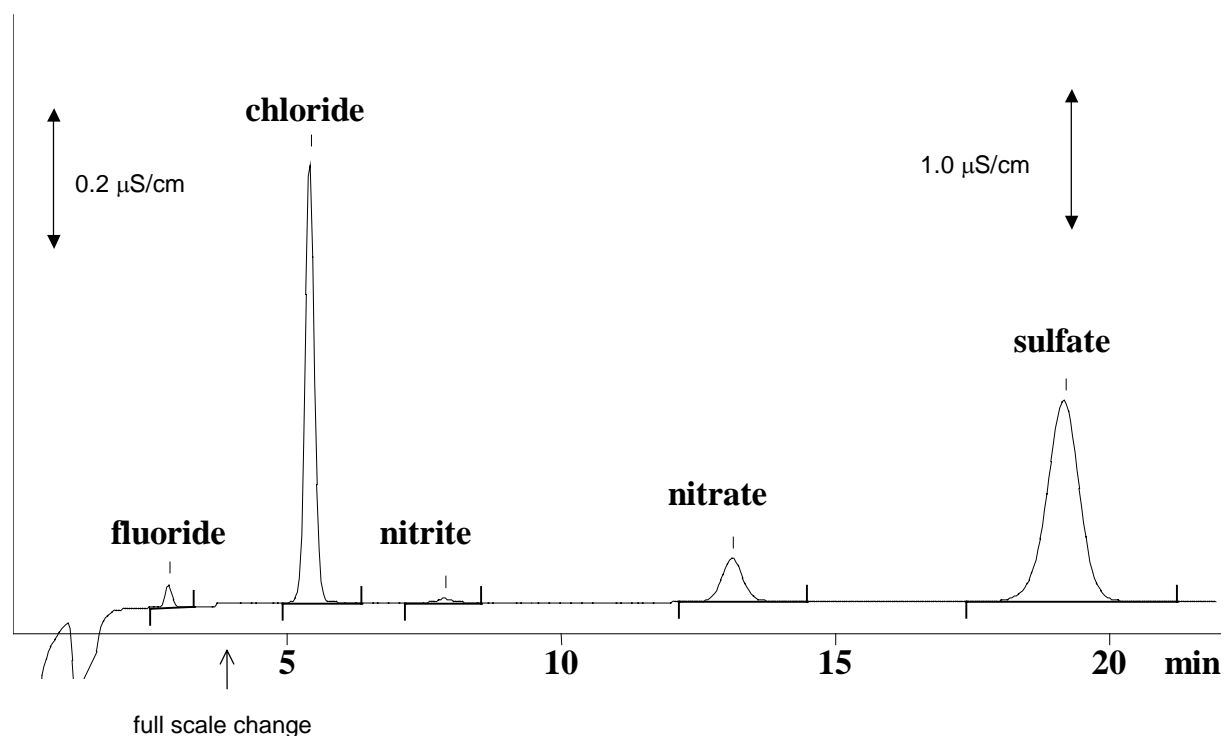
Column: 6.1006.100 Metrosep Anion Dual 2

Eluent: 2.2 mmol/L sodium hydrogencarbonate,
1.3 mmol/L sodium carbonate

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

Flow: 0.8 mL/min

Injection Volume: 20 μ L



| Results: | F ⁻ mg/L | Cl ⁻ mg/L | NO ₂ ⁻ mg/L | NO ₃ ⁻ mg/L | SO ₄ ²⁻ mg/L |
|-----------------|------------------------|-------------------------|--------------------------------------|--------------------------------------|---------------------------------------|
| | | 4.3 | 822.6 | 29.3 | 397.1 |