

IC Application Note No. S-257

Title: Seven standard anions separated on the Metrosep A Supp 15 columns

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

Sample: Standard solution

Sample Preparation: None

Column: 6.1030.430 Metrosep A Supp 15 – 250

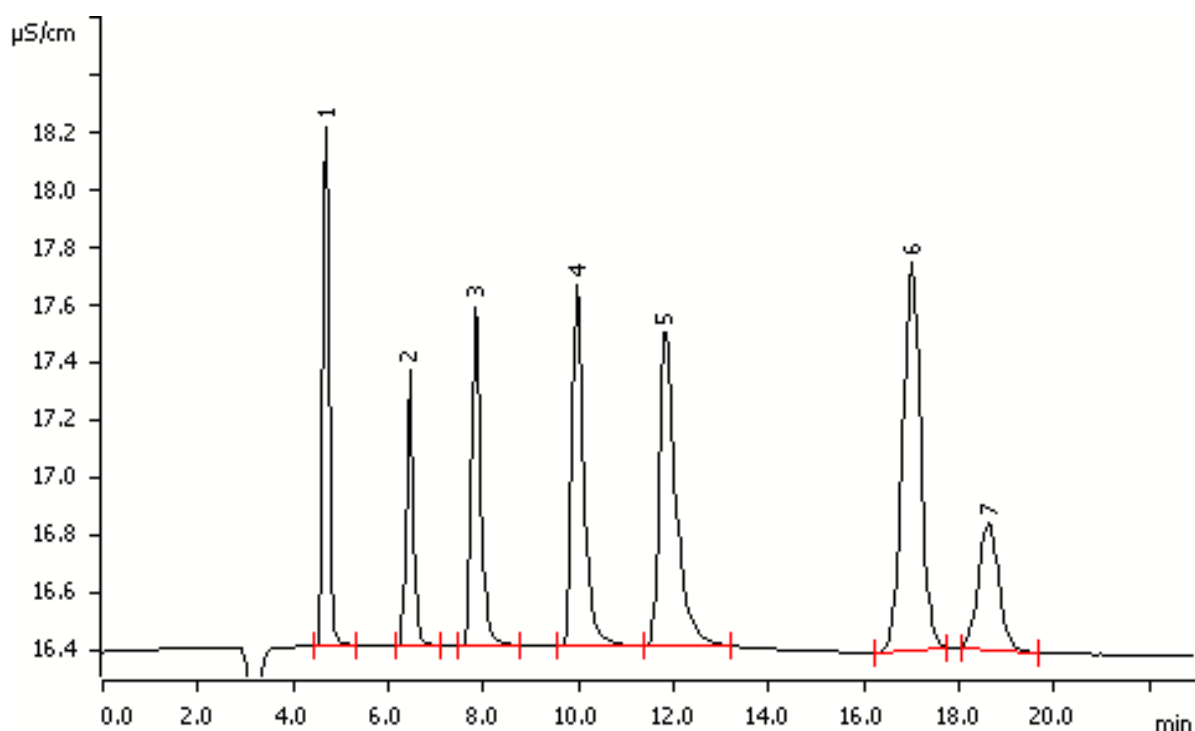
Eluent: 5.0 mmol/L sodium carbonate
0.3 mmol/L sodium hydroxide

Suppressor: Metrohm Suppressor Module (MSM, 100 mmol/L H₂SO₄)

Flow: 0.8 mL/min

Column temperature: 45°C

Injection Volume: 20 µL



Results:	F ⁻ (1) mg/L	Cl ⁻ (2) mg/L	NO ₂ ⁻ (3) mg/L	Br ⁻ (4) mg/L	NO ₃ ⁻ (5) mg/L	SO ₄ ²⁻ (6) mg/L	PO ₄ ³⁻ (7) mg/L
	2.0	2.0	5.0	10	10	10	10

Overlay of chromatograms on the different A Supp 15 column:

- From top:
- 6.1030.430 Metrosep A Supp 15 – 250
 - 6.1030.420 Metrosep A Supp 15 – 150
 - 6.1030.410 Metrosep A Supp 15 – 100
 - 6.1030.450 Metrosep A Supp 15 – 50

