

IC Application Note No. S-28

Title: ppb-Levels of anions

Summary: Determination of 1 (3) $\mu\text{g/L}$ of chloride, nitrite, bromide, nitrate, phosphate and sulfate directly injected using anion chromatography with conductivity detection after chemical suppression.

Sample: Anions in ultra pure water

Sample Preparation: -

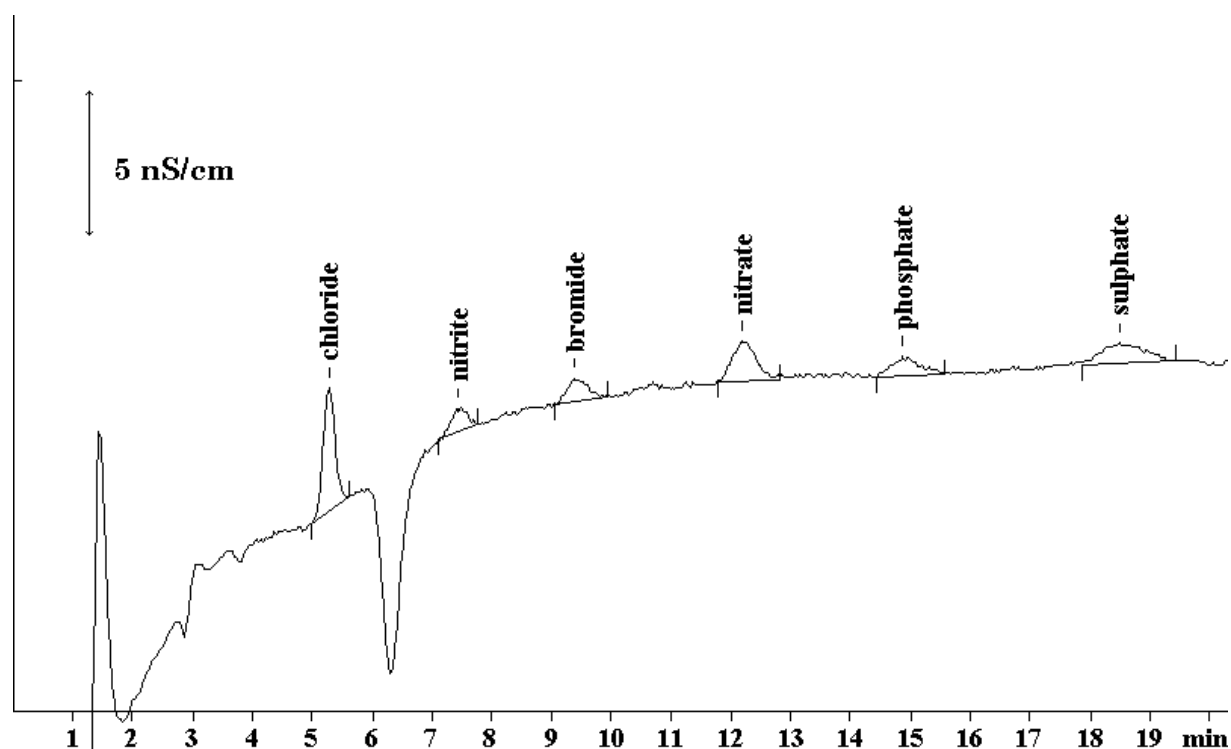
Column: 6.1006.100 Metrosep Anion Dual 2

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

Suppressor: Metrohm Suppressor Module (MSM, 50 mmol/L H_2SO_4)

Flow: 0.8 mL/min

Injection Volume: 100 μL



Results:	Cl^- , NO_2^- , Br^- , NO_3^- , SO_4^{2-}	HPO_4^{2-}
	1.0 $\mu\text{g/l}$ (ppb)	3.0 $\mu\text{g/l}$ (ppb)