

IC Application Note No. S-109

Title: Six anions in Schoeniger absorption solution (A SUPP 5)

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

Sample: Schoeniger absorption solution

Sample Preparation:

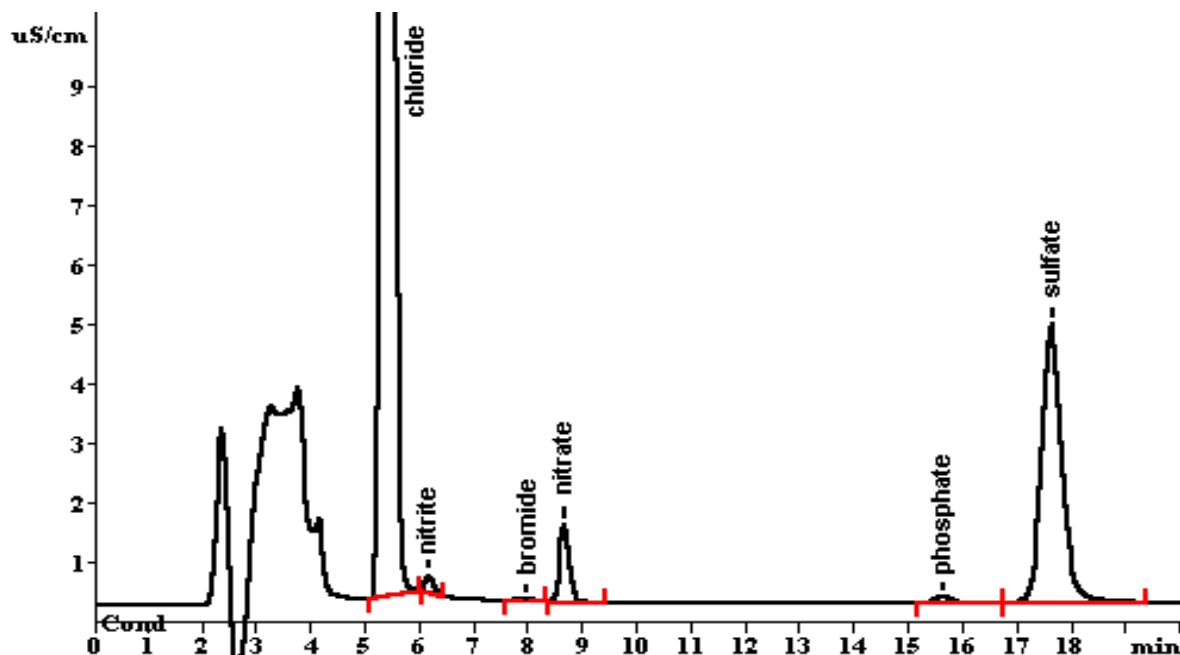
Column: 6.1006.520 Metrosep A Supp 5-150

Eluent: 1.0 mmol/L sodium hydrogencarbonate, 3.2 mmol/L sodium carbonate, 15% acetone

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

Flow: 0.7 mL/min

Injection Volume: 20 µL



Results:	Chloride	Nitrite	Bromide	Nitrate	Phosphate	Sulfate
	mg/L	mg/l	mg/L	mg/L	mg/L	mg/L
	130	0.54	0.29	3.11	1.23	18.9

Sulfite not detected, indicating complete oxidation to sulfate.