

IC Application Note No. S-190

Title: Five anions in a strongly alkaline solution containing 70 g/L vanadate

Summary: Determination of chloride, nitrite, nitrate, phosphate and sulfate in a strongly alkaline solution using anion chromatography with conductivity detection after chemical suppression.

Sample: Alkaline solution containing 70 g/L vanadate

Sample Preparation: Dilution 1 : 100 with ultrapure water

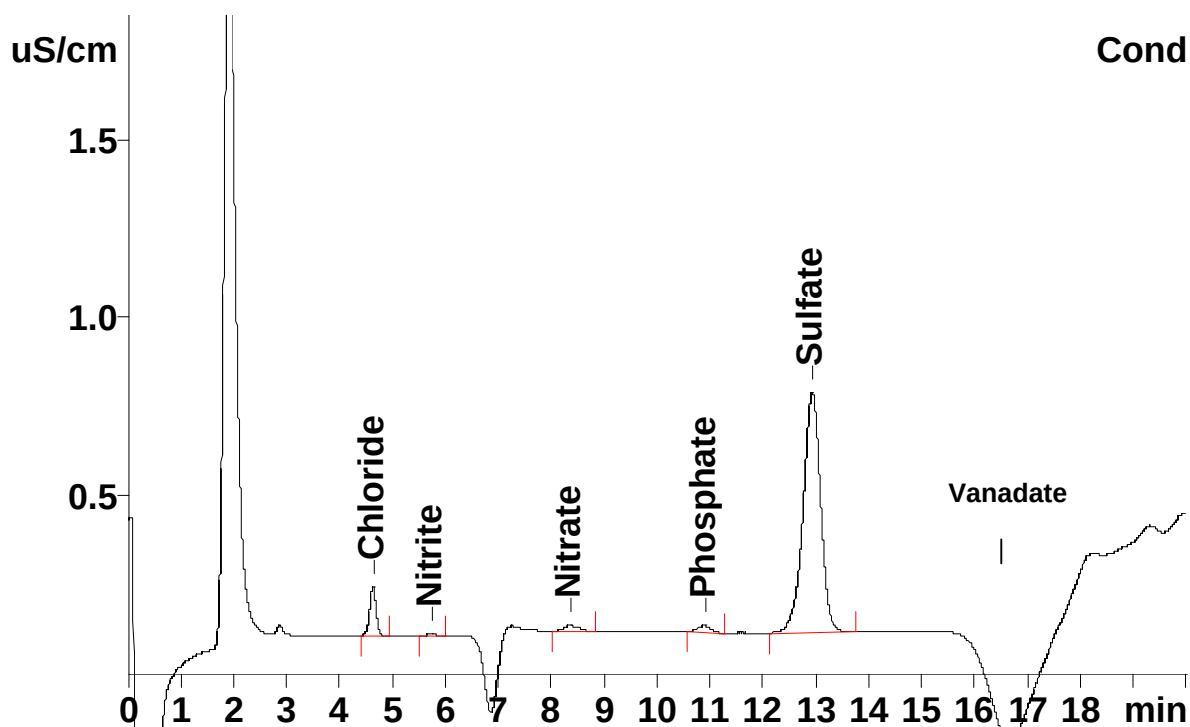
Column: 6.1006.520 Metrosep A Supp 5 – 150

Eluent: 3.2 mmol/L sodium carbonate
1.0 mmol/L sodium hydrogencarbonate

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

Flow: 0.8 mL/min

Injection Volume: 20 µL



Results:	Chloride mg/L	Nitrite mg/L	Nitrate mg/L	Phosphate mg/L	Sulfate mg/L
	8.06	1.18	4.87	17.9	187