

IC Application Note No. S-186

Title: Anions in waste water containing N-methylpyrrolidone using inline matrix elimination

Summary: Determination of fluoride, acetate, formate, chloride, nitrite, nitrate, phosphate and sulfate in waste water containing N-methylpyrrolidone using anion chromatography with conductivity detection after chemical suppression and inline matrix elimination.

Sample: Waste water containing N-methylpyrrolidone

Sample Preparation: 1 : 10 dilution prior to the inline matrix elimination

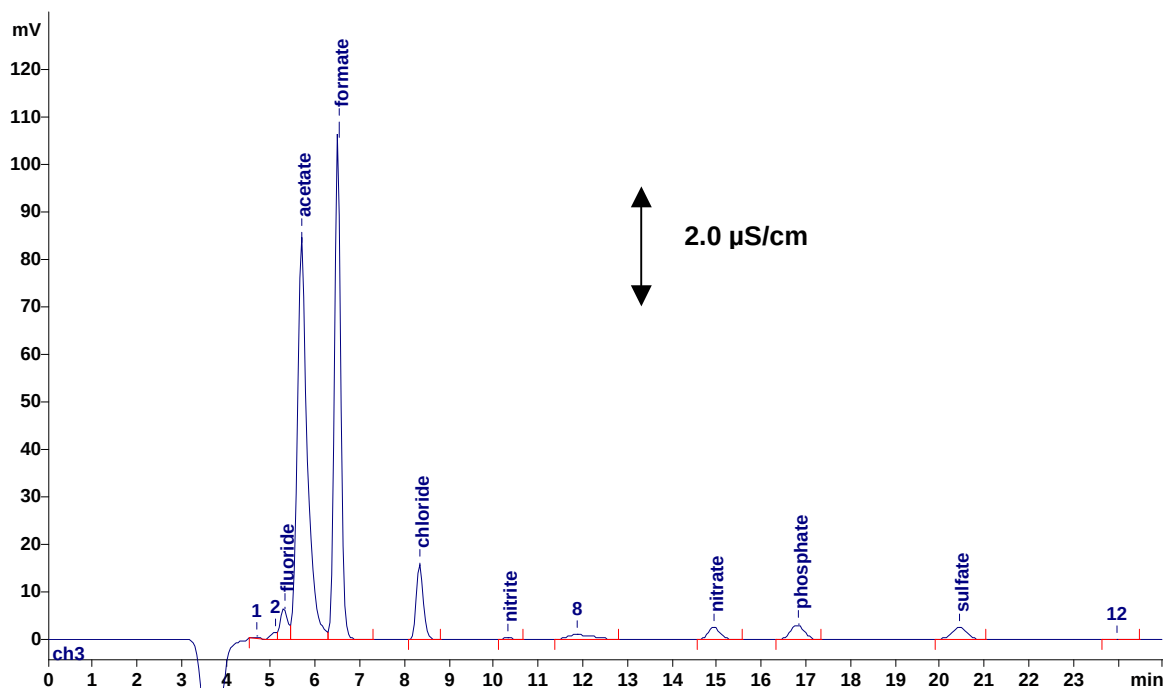
Column: 6.1006.530 Metrosep A Supp 5 – 250

Eluent: 3.5 mmol/L sodium carbonate
2.0 mmol/L sodium hydrogen carbonate

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

Flow: 0.7 mL/min

Injection Volume: 20 µL injected to the inline matrix elimination



Results:	Fluoride mg/L	Acetate mg/L	Formate mg/L	Chloride mg/L	Nitrite mg/L	Nitrate mg/L	Phosphate mg/L	Sulfate mg/L
	0.06	n.q.	n.q.	0.22	n.q.	0.14	0.47	0.29