

IC Application Note No. S-250

Title: Trace anions in tetramethylammonium hydroxide (TMAOH)

Summary: Determination of formate, chloride, nitrate, phosphate and sulfate in 20% TMAOH using anion chromatography with conductivity detection after sequential suppression and Inline Matrix Neutralization.

Sample: Tetramethylammonium hydroxide (20%)

Sample Preparation: Direct injection after Inline Matrix Neutralization

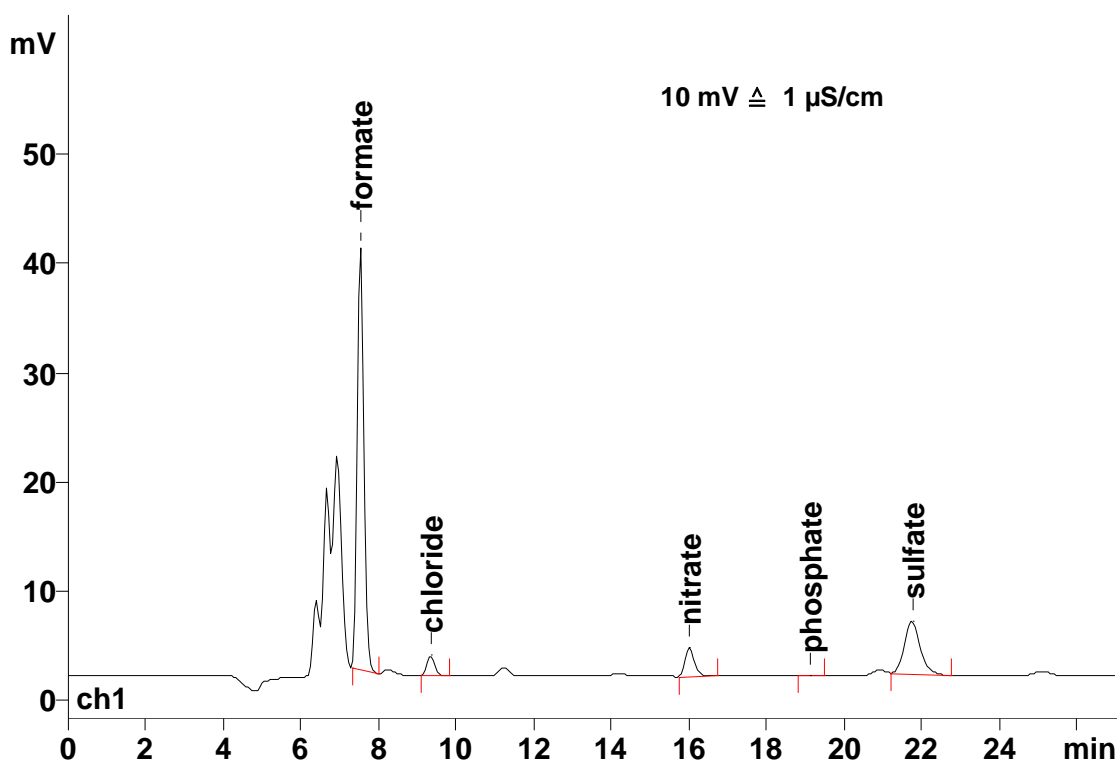
Column: 6.1006.530 Metrosep A Supp 5 – 250

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

Suppressor: Sequential suppression: MSM (50 mmol/L H₂SO₄), MCS

Flow: 0.7 mL/min

Injection Volume: 100 µL



Results:	Formate µg/L	Chloride µg/L	Nitrate µg/L	Phosphate µg/L	Sulfate µg/L
	872	40.0	130	n.q.	401

System setup:

