

IC Application Note No. S-176

Title: Four anions in betain

Summary: Determination of chloride, nitrite, nitrate and sulfate in betain using anion chromatography with conductivity detection after chemical suppression.

Sample: Betain (technical solution, for animal food)

Sample Preparation: Dilution 1 : 20, filtration and injection through IC-RP cartridge

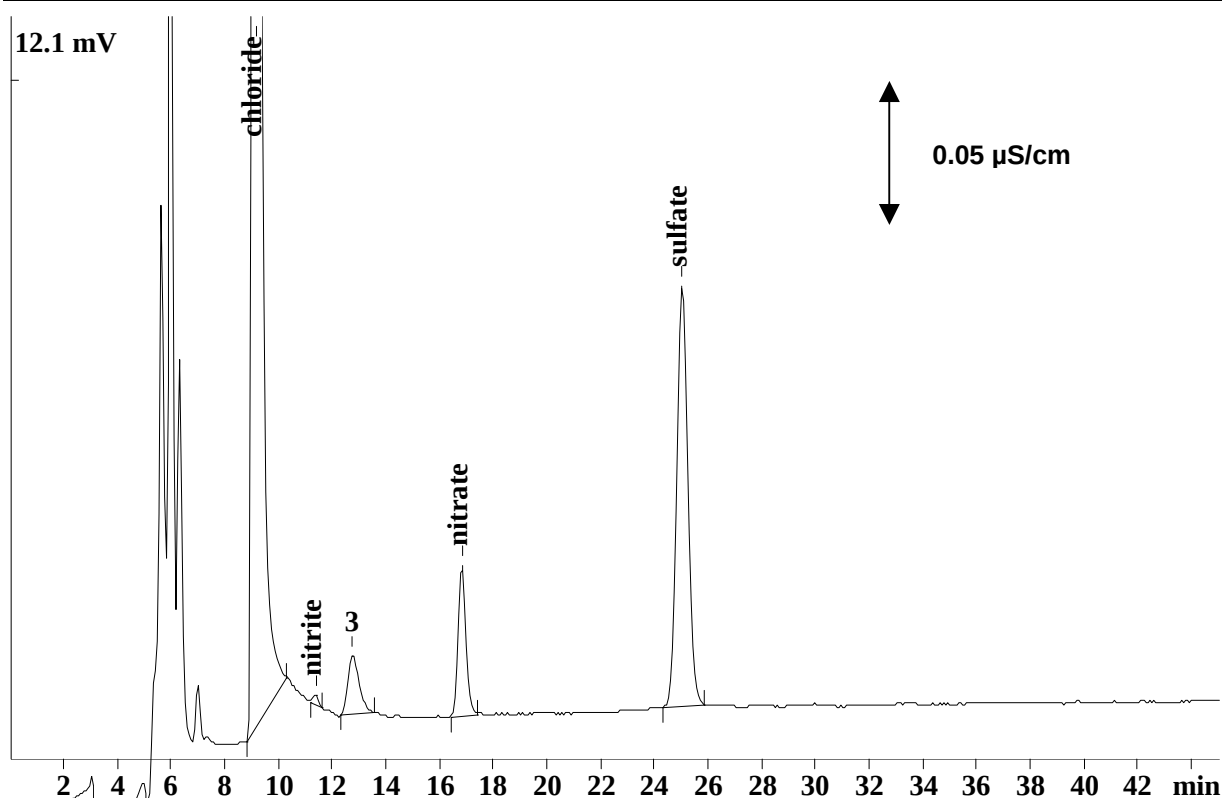
Column: 6.1006.530 Metrosep A Supp 5 – 250

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

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

Flow: 0.7 mL/min

Injection Volume: 20 µL



Results:	Chloride mg/L	Nitrite mg/L	Nitrate mg/L	Sulfate mg/L
	188.5	0.073	2.64	7.09