

IC Application Note No. S-177

Title: Five anions in inositol

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

Sample: Inositol (pure crystals, for animal food)

Sample Preparation: Dilution 1 : 10, injection after filtration (0.45 µm)

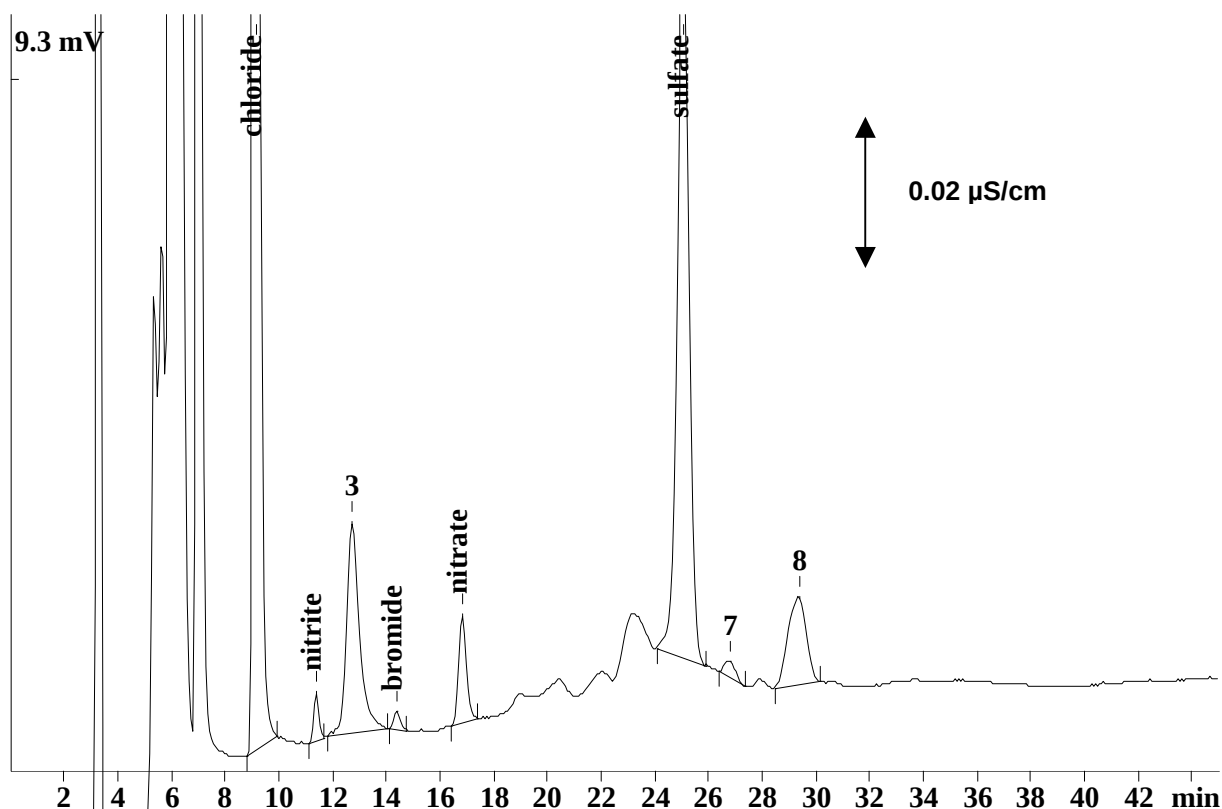
Column: 6.1006.530 Metrosep A Supp 5 – 250

Eluent: 3.2 mmol/L sodium hydrogen carbonate
1.0 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	Bromide mg/L	Nitrate mg/L	Sulfate mg/L
	15.9	0.143	0.118	0.571	4.13