

IC Application Note No. O-38

Title: Separation of various sulfur/nitrogen compounds using ion pair chromatography

Summary: Determination of sulfite, nitrite, nitrate, sulfate, imidodisulfonate and peroxodisulfate applying ion pair chromatography with conductivity detection after suppression.

Sample: Standard

Sample Preparation: None (sulfite stabilized with alkaline formaldehyde)

Column: Hamilton PRP-1 10 μ m

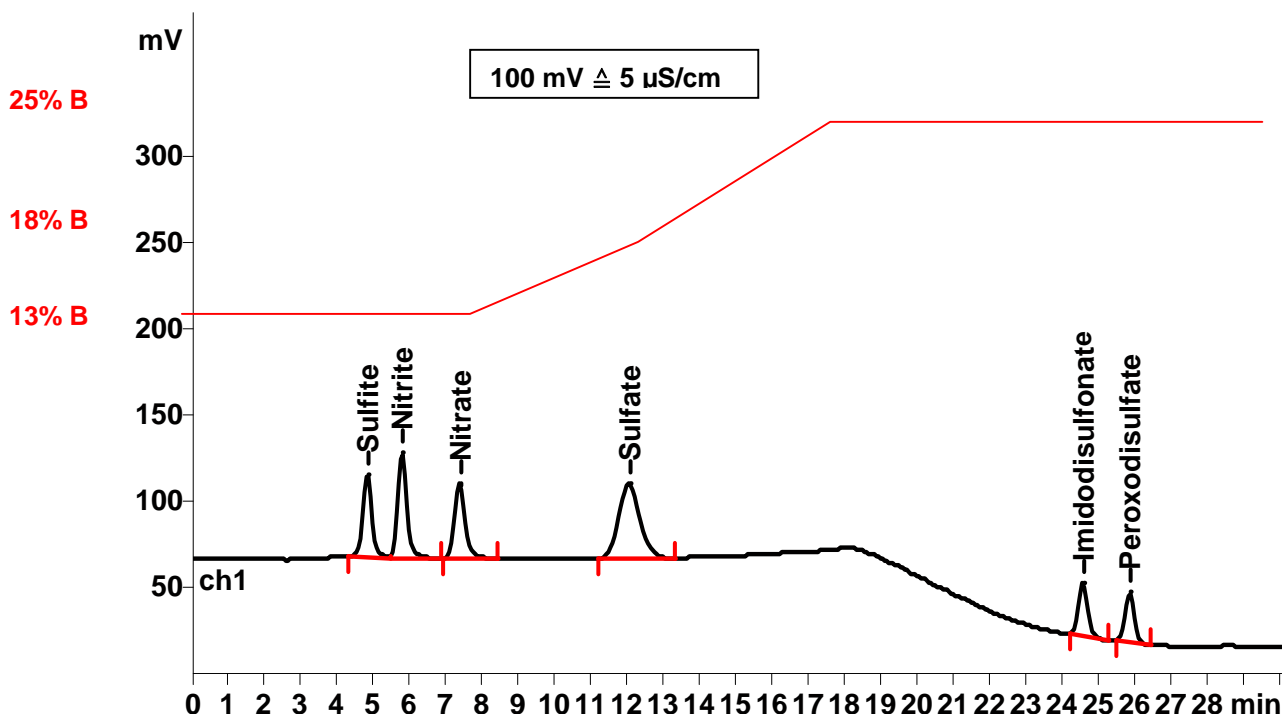
Eluent A: 1.5 mmol/L sodium carbonate, 2.0 mmol/L TBAOH

Eluent B: Acetonitrile

Suppressor: Metrohm Suppressor Module (MSM, 10 mmol/L LiCl)

Flow: 1.0 mL/min

Injection Volume: 20 μ L



Results:	Sulfite mg/L	Nitrite mg/L	Nitrate mg/L	Sulfate mg/L	Iminodisulfonate mg/L	Peroxodisulfate mg/L
	10	10	10	10	10	10