

IC Application Note No. S-182

Title: Bromide and sulfur oxoanions in photographic developer solutions

Summary: Determination of bromide, sulfite, sulfate and thiosulfate in a photographic developer solution using anion chromatography with conductivity detection after chemical suppression.

Sample: Photographic developer solution

Sample Preparation: 100 μL diluted in 100 mL 10 mmol/L NaOH containing 100 μL formaldehyde, injection through IC-Na cartridge

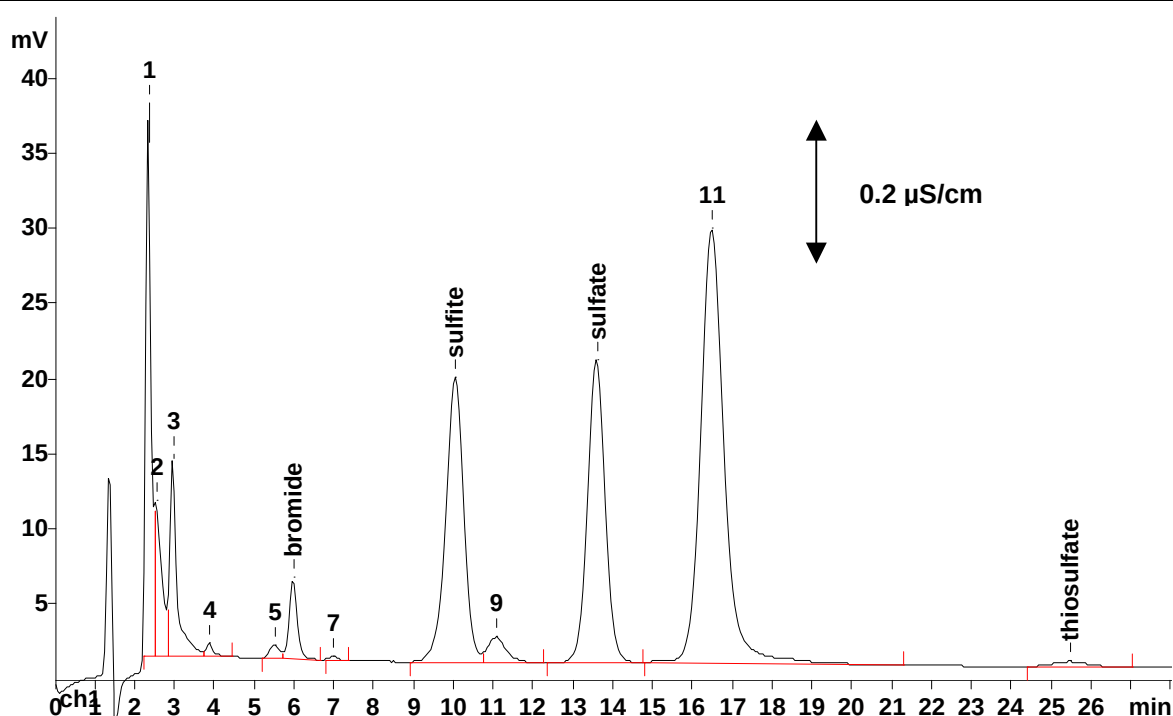
Column: 6.1006.100 Metrosep Anion Dual 2 (with RP Guard)

Eluent: 1.4 mmol/L sodium carbonate
2.0 mmol/L sodium hydrogen carbonate, 15% acetone

Suppressor: Metrohm Suppressor Module (MSM, 50 mmol/L H_2SO_4)

Flow: 0.8 mL/min

Injection Volume: 20 μL



Results:	Bromide g/L	Sulfite g/L	Sulfate g/L	Thiosulfate g/L
	0.69	6.81	2.69	2.96