

IC Application Note No. O-12

Title: Gluconate and salicylate in plating bath

Summary: Determination of gluconate and salicylate in zinc plating bath using ion exclusion chromatography with direct conductivity detection.

Sample: Zinc plating bath

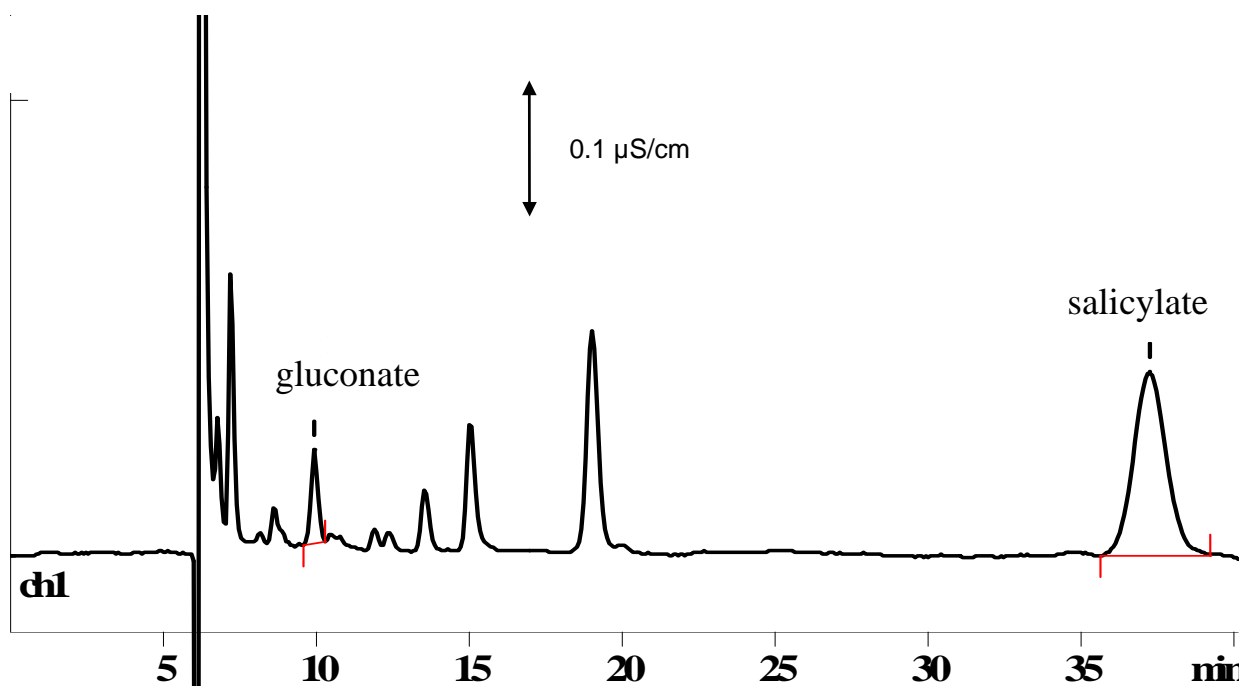
Sample Preparation: Dilution 1: 1000, injection through H⁺ cartridge

Column: 6.1005.200 Metrosep Organic Acids

Eluent: 0.5 mmol/L H₂SO₄; 15 % acetone

Flow: 0.5 mL/min

Injection Volume: 100 µL



Results:	Gluconate g/L	Salicylate g/L
	4.5	6.1

A reduction of the concentration of H₂SO₄ in the eluent would decrease the analysis time to < 30 min.