

IC Application Note No. S-165

Title: Hypophosphite, phosphite, tartrate, tungstate, phosphate, citrate and pyrophosphate in an electroplating bath

Summary: Determination of hypophosphite, phosphite, tartrate, tungstate, phosphate, citrate and pyrophosphate in an electroplating bath using anion chromatography with a high pressure gradient and conductivity detection after chemical suppression.

Sample: Electroplating bath

Sample Preparation: Dilution 1:400 with ultrapure water

Column: 6.1005.320 Metrosep A SUPP 3

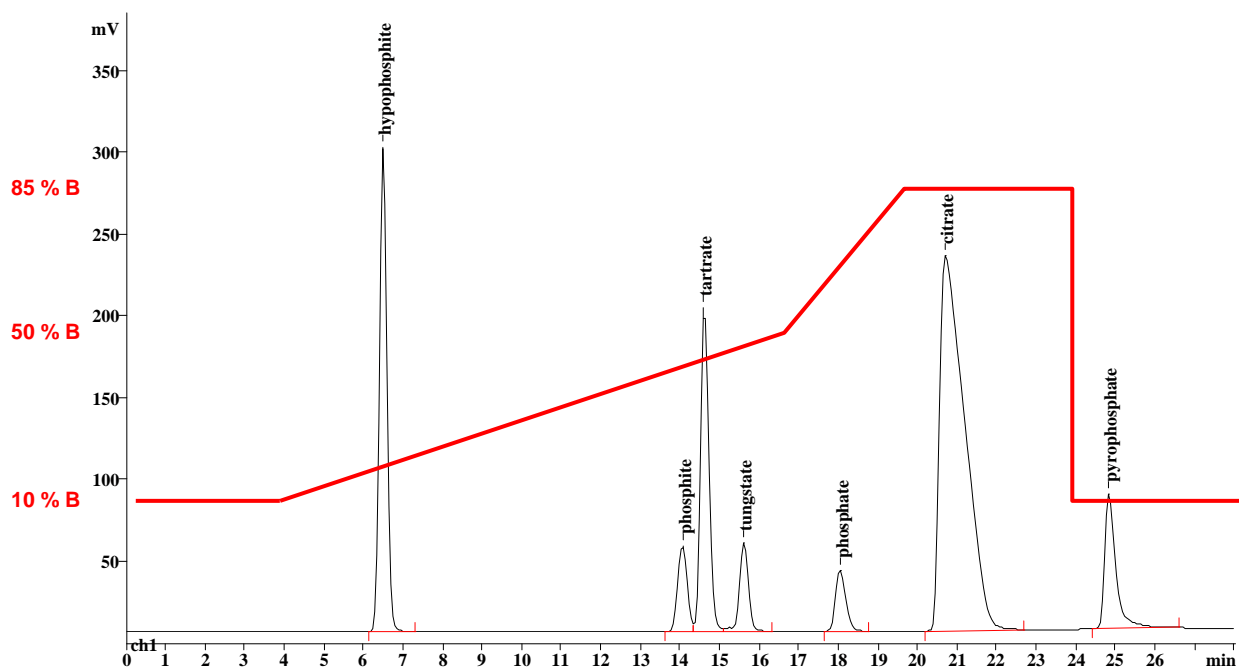
Eluent A: Ultrapure water

Eluent B: 40 mmol/L sodium hydroxide

Suppressor: 828 IC Dual Suppressor

Flow: 1.0 mL/min

Injection Volume: 20 µL



Results:	Hypophosphite	Phosphite	Tartrate	Tungstate	Phosphate	Citrate	Pyrophosphate
	g/L	mg/L	g/L	g/L	mg/L	g/L	mg/L
	14.37	10 ^{*)}	14.69	6.83	10 ^{*)}	79.59	20 ^{*)}

^{*)} added to the diluted sample