

IC Application Note No. S-213

Title: Nitrate in nickel plating bath

Summary: Determination of nitrate in a nickel plating bath using anion chromatography with UV/VIS detection (205 nm) after chemical suppression.

Sample: Nickel plating bath containing 5 g/L nickel

Sample Preparation: Dilution 1 : 50, nickel removed by means of a sodium-loaded cation exchanger cartridge

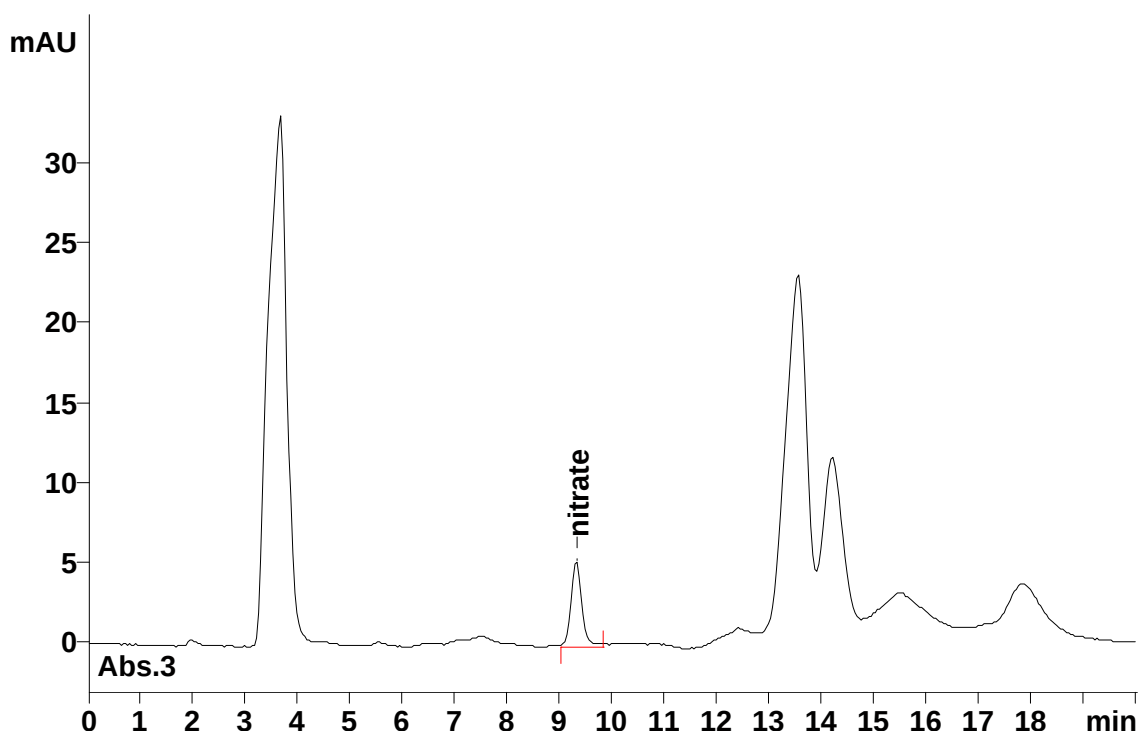
Column: 6.1006.520 Metrosep A Supp 5 – 150

Eluent: 3.2 mmol/L sodium carbonate
1.0 mmol/L sodium hydrogencarbonate

Suppressor: Metrohm Suppressor Module (MSM, 100 mmol/L sulfuric acid)

Flow: 0.7 mL/min

Injection Volume: 20 µL



Results:	Nitrate mg/L
	12.25

See AN N-63 for the corresponding analysis without chemical suppression