

IC Application Note No. U-4

Title: Nitrate in nickel plating bath

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

Sample: Nickel plating bath containing 5 g/L nickel

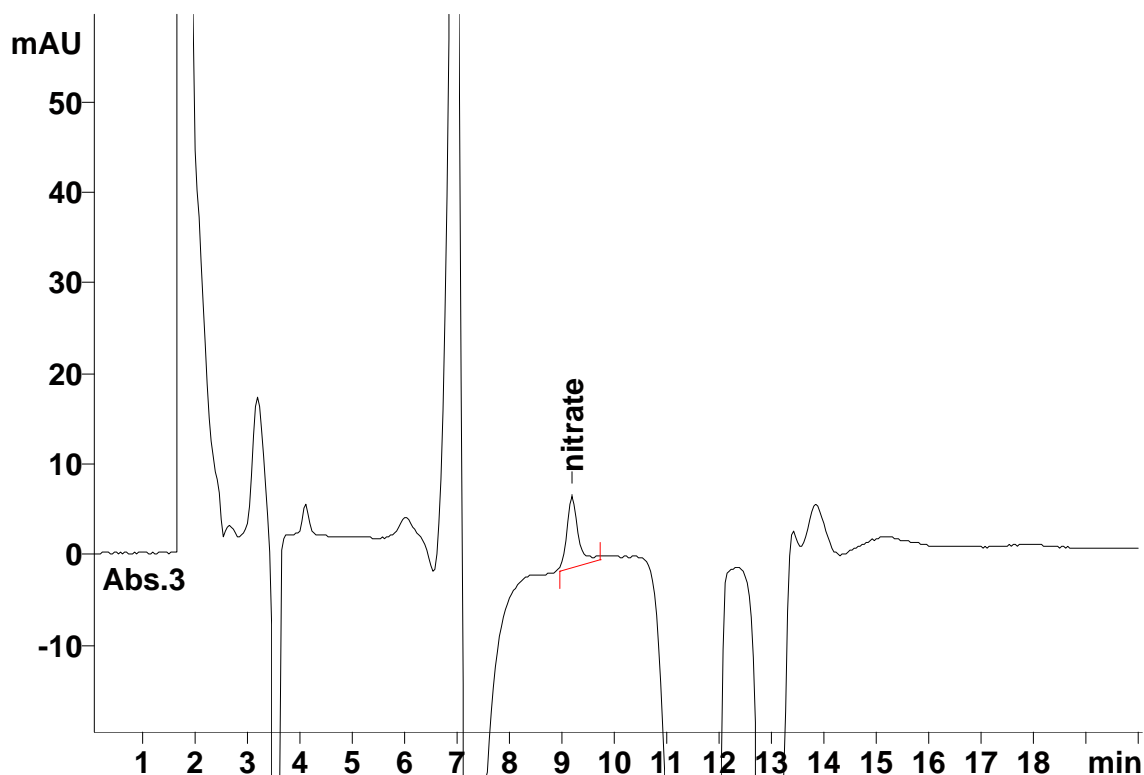
Sample Preparation: Dilution 1 : 50, nickel removed by means of a sodium-loaded cation exchanger cartridge

Column: 6.1006.520 Metrosep A Supp 5 – 150

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

Flow: 0.7 mL/min

Injection Volume: 20 µL



Results:

Nitrate
mg/L

12.25

See AN U-5 for the corresponding analysis with chemical suppression