

IC Application Note No. S-108

Title:	Five anions in an electroplating bath after in-
	line elimination of heavy metals

Summary:

Determination of chloride, nitrite, nitrate, phosphate and sulfate in an electroplating bath after inline elimination of heavy metals by cation exchange on the 793 IC Sample Prep Module using anion chromatography with conductivity detection after chemical suppression.

Sample: Electroplating bath

Sample Preparation: Dilution 1:100; in-Line cation exchange using 793 Sample Prep Module in the Na⁺-form: (permitting nitrite determination).

Regeneration: oxalic acid, perchloric acid, acetone Rinsing: NaOH

Column: 6.1006.530 Metrosep A Supp 5-250

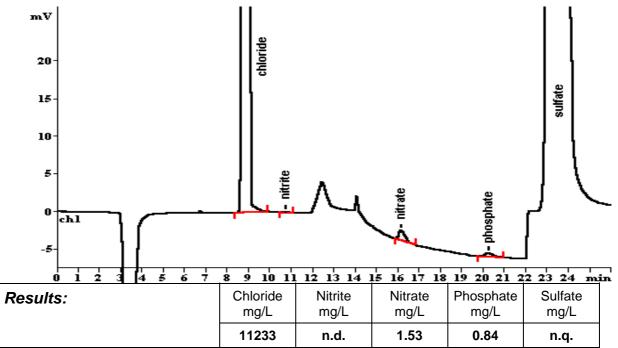
Eluent: 1.0 mmol/L sodium hydrogencarbonate,

3.2 mmol/L sodium carbonate

Suppressor: Metrohm Suppressor Module (MSM, 50 mmol/L H₂SO₄)

Flow: 0.7 mL/min

Injection Volume: 20 µL



Full Scale: 100 μS/cm. Between 14.0 and 22.0 min. reduced to 5 μS/cm.