

IC Application Note No. U-25

Title: Saccharin and its degradation products (benzamide, o-toluenesulfonamide) in a nickel electroplating bath

Summary: Determination of saccharin, benzamide and o-toluenesulfonamide in a nickel electroplating bath using RP chromatography with UV detection.

Sample: Nickel electroplating bath

Sample Preparation: Dilution 1 : 100 with ultrapure water

Column: 6.1008.100 Prontosil 120-5-C18 AQ 150

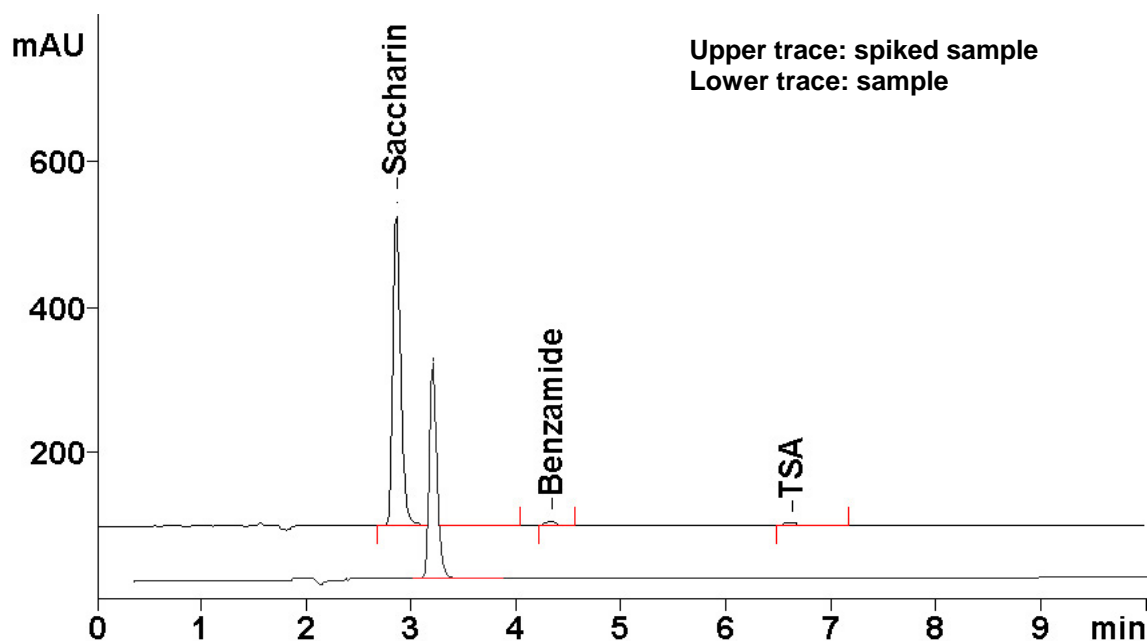
Wavelength: 210 nm

Solution A: 2.722 g/kg potassium dihydrogen phosphate in 1000 g ultrapure water (pH = 3.0 with H₃PO₄)

Eluent: 701.9 g of solution A + 237 g methanol

Flow: 1.0 mL/min

Injection Volume: 10 µL



Results:	Saccharin	Benzamide	o-Toluenesulfonamide (TSA)
Sample (g/L)	2.0	< 0.01	< 0.01
Spiked sample (mg/L)	30	1.0	1.0