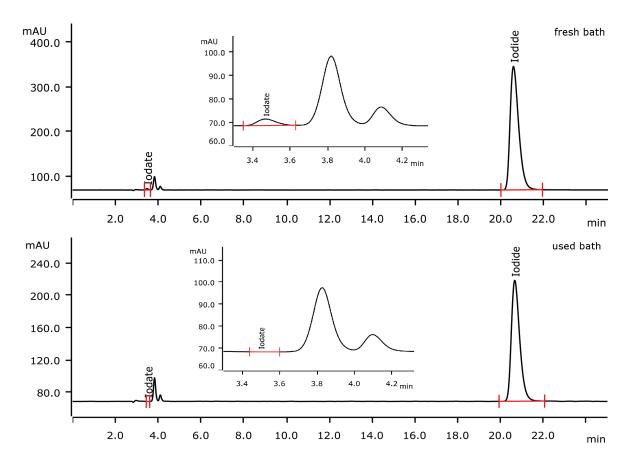
## IC Application Note U–65

# Iodate and iodide in an electroplating bath applying direct UV/VIS detection



The analysis of iodate and iodide in used electroplating baths is a demanding task due to the high content of other ions. Iodate is used as a stabilizer for the bath and needs to be checked for proper electroplating. The use of a sodium chloride eluent, the Metrosep A Supp 5 - 250/4.0 column and direct UV/VIS allows the analysis of these samples without interference.

### Results

Diluted sample	spiked	found	Recovery
lodate	2.0 mg/L	1.9 mg/L	95%
Iodide	4.0 mg/L	43.2 mg/L	101%



#### Sample

Fresh resp. used nickel electroplating bath

#### Sample preparation

Dilution 1:20

#### Columns

Metrosep A Supp 5 - 250/4.0	6.1006.530
Metrosep A Supp 4/5 Guard/4.0	6.1006.500

#### Solutions

Eluent

10 g/L sodium chloride

#### Parameters

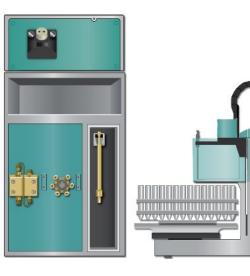
Flow rate	0.7 mL/min
Injection volume	20 µL
P <sub>max</sub>	15 MPa
Recording time	25 min
Column temperature	55 °C
Wavelength	230 nm

#### Analysis

Direct UV/VIS detection

#### Instrumentation

940 Professional IC Vario ONE	2.940.1100
944 Professional UV/VIS Detector	2.944.0010
858 Professional Sample Processor	2.858.0020



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