946 Portable VA Analyzer

General information

Software version: 1.0

Instrument: -

Sensor: scTRACE Gold

User name:

Report: No

Report elements: -

Metrohm

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Method

General

Method name: AB433 Plating Ag Film.detp
Remarks: 15 mL H2O + 1.5 mL plating electrolyte + 1.5 mL c(Ag) = 20 mg/L
Plating electrolyte: c(SSA) = 0.4 mol/L, c(NaOH) = 1 mol/L

Determination

Sample volume (mL): 18.0
Total cell volume (mL): 18.0
Stirring time (s): 10.0
Stirring rate (1/min): 2000
Measure blank: No
No. of blanks: 0
Blank value correction: No
No. of replications: 0
No. of additions: 0

Voltammetric

Measuring mode: Linear sweep
Current measuring range: Auto

Cyclovoltammetric pretreatment
Start potential (V): -0.5
Vertex potential (V): 0.4
Potential step (V): 0.01
Sweep rate (V/s): 0.1
No. of cycles: 3

Potentiostatic pretreatment
Potential 1 (V): -1.0
Waiting time 1 (s): 60.0
Potential 2 (V): 0.0
Waiting time 2 (s): 0.0
Equilibration time (s): 5.0

Sweep
Start potential (V): -0.4
End potential (V): -0.1

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Potential step (V): 0.006

Sweep rate (V/s): 0.1

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Evaluation

Data processing

Smoothing: 1

Calibration method: Standard addition

Peak evaluation

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Characteristic potential (V)	0.0
Tolerance (V)	0.05
Min. width (V)	0.05
Max. width (V)	0.5
Min. measured quantity (µA)	0.001
Baseline type	Linear
Base point automatic	Yes
Start base point (V)	0.0
End base point (V)	0.0

Standard solutions

	-	Volume (mL)
Standard 1	1.0 mg/L	0.1
Standard 2	-	-
Standard 3	-	-
Standard 4	-	-