



946 Portable VA Analyzer

General information

Software version: 1.0

Instrument: -

Sensor: scTRACE Gold

User name:

Report: No

Report elements: -

Method

General

Method name: AB433 Determination Pb.detp

Remarks: 15 mL sample + 1.5 mL supporting electrolyte

Supporting electrolyte: c(citric acid) = 0.5 mol/L, c(KCl) = 0.1 mol/L, c(NaOH) = 0.1 mol/L

Determination

Sample volume (mL): 15.0

Total cell volume (mL): 16.5

Stirring time (s): 10.0

Stirring rate (1/min): 3000

Measure blank: No

No. of blanks: 0

Blank value correction: No

No. of replications: 2

No. of additions: 2

Voltammetric

Measuring mode: Square wave

Current measuring range: Auto

Cyclovoltammetric pretreatment

Start potential (V): -0.3

Vertex potential (V): 0.02

Potential step (V): 0.01

Sweep rate (V/s): 1.0

No. of cycles: 10

Potentiostatic pretreatment

Potential 1 (V): -0.7

Waiting time 1 (s): 30.0

Potential 2 (V): -0.57

Waiting time 2 (s): 5.0

Equilibration time (s): 5.0

Sweep

Start potential (V): -0.7

End potential (V): -0.3



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Potential step (V): 0.004

Pulse amplitude (V): 0.02

Frequency (Hz): 300.0

Evaluation

Data processing

Smoothing: 1
Calibration method: Standard addition

Peak evaluation

	Pb
Characteristic potential (V)	-0.49
Tolerance (V)	0.05
Min. width (V)	0.05
Max. width (V)	0.5
Min. measured quantity (µA)	0.1
Baseline type	Horizontal start
Base point automatic	No
Start base point (V)	-0.57
End base point (V)	0.0

Standard solutions

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