
Method parameters

Method : AB433_Determination of Pb.mth
Title : Determination of Pb
Remark1 : 10 mL sample + 1 mL electrolyte pH 2.5
Remark2 : Electrolyte: c(citric acid)=0.5M, c(KCl)=0.1M, c(NaOH)=0.1M

Calibration : Standard addition
Technique : Batch
Addition : Automatic

Sample ID : Sample
Sample amount (mL): 10.000
Cell volume (mL): 11.000

Voltammetric parameters

Mode : SqW - Square Wave

Highest current range : 1 uA
Lowest current range : 1 uA

Electrode : SSE/RDE
Stirrer speed (rpm) : 2000

Initial electr. conditioning : No

No. of additions : 2
No. of replications : 2

Measure blank : No
Addition purge time (s) : 30

Initial purge time (s) : 300

Conditioning cycles
Start potential (V) : -0.400
End potential (V) : 0.000
No. of cycles : 10

Hydrodynamic (measurement) : No
Cleaning potential (V) : -0.700
Cleaning time (s) : 60.000
Deposition potential (V) : -0.550
Deposition time (s) : 5.000

Sweep
Equilibration time (s) : 5.000
Start potential (V) : -0.600
End potential (V) : -0.350
Voltage step (V) : 0.004
Amplitude (V) : 0.005
Frequency (Hz) : 150.000
Sweep rate (V/s) : 0.595

Cell off after measurement : Yes

Peak evaluation

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Regression technique      : Linear Regression
Peak evaluation           : Height
Minimum peak width (V.steps) : 5
Minimum peak height (A)   : 1.000e-010
Reverse peaks             : No
Smooth factor             : 4
Eliminate spikes          : Yes
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Substances

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Pb                        : -0.480 V   +/- 0.050 V

Standard solution        : 1    1.000 mg/L
Addition volume (mL)     : 0.050

Lead                     : Final result (Pb) =
                        Conc * (11 / 10) * (1e+006 / 1) + 0 - 0
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Baseline

Substance Addition		automatic start	(V)	end (V)	type	scope
Pb	Sample	yes	---	---	linear	wholePeak
	Addition 1	yes	---	---	linear	wholePeak
	Addition 2	yes	---	---	linear	wholePeak

Solutions

No.	Content	Predose (mL)
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Export options

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Export final results as ASCII:  no

Export final results as CSV:    no

Export final results as XML:    no

Export determination to AutoDB: no
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