
Method parameters

Method : AB416_Determination As(total) with scTRACE Gold.mth
Title : Determination of As(total) with the scTRACE Gold
Remark1 : 10 mL sample + 2 mL electrolyte (+ 0.1 mL KMnO4 solution)
Remark2 : Electrolyte: 1 M sulfamic acid, 0.5 M citric acid, 0.45 M KCl

Calibration : Standard addition
Technique : Batch
Addition : Manual

Sample ID : Sample
Sample amount (mL): 10.000
Cell volume (mL): 12.100

Voltammetric parameters

Mode : SqW - Square Wave

Highest current range : 10 mA
Lowest current range : 100 nA

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) : 10

Initial purge time (s) : 10

Conditioning cycles
Start potential (V) : -0.200
End potential (V) : 1.000
No. of cycles : 5

Hydrodynamic (measurement) : No
Cleaning potential (V) : -1.000
Cleaning time (s) : 60.000
Deposition potential (V) : -0.250
Deposition time (s) : 5.000

Sweep
Equilibration time (s) : 5.000
Start potential (V) : -0.300
End potential (V) : 0.400
Voltage step (V) : 0.010
Amplitude (V) : 0.020
Frequency (Hz) : 100.000
Sweep rate (V/s) : 0.992

Cell off after measurement : Yes

Peak evaluation

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

Substances

As(total) : 0.000 V +/- 0.050 V

Standard solution : 2 0.500 mg/L
Addition volume (mL) : 0.075

Total arsenic : Final result (As(total)) =
Conc * (12.1 / 10) * (1e+006 / 1) + 0 - 0

Baseline

Substance Addition automatic start (V) end (V) type scope

As(total) Sample yes --- linear wholePeak
Addition 1 yes --- linear wholePeak
Addition 2 yes --- linear wholePeak

Solutions

No. Content Predose (mL)

Export options

Export final results as ASCII: no

Export final results as CSV: no

Export final results as XML: no

Export determination to AutoDB: no