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www.reagecon.com

CERTIFICATE OF GRAVIMETRIC PREPARATION

PRODUCT: Concentrate to make Arsenic Standard 5000500

in accordance with European Pharmacopoeia

PRODUCT No.: 5000500C

MATRIX: 0.1% NaOH aq.

LOT NO.: 550C24A1

DATE OF PREPARATION: 26th January 2024

EXPIRY DATE: 28th January 2025

DENSITY VALUE: 1.005 g/ml @ 20°C

PREPARATION OF CONCENTRATE:

All standard components have been pre-qualified/verified before use. All analytical measuring devices and instrumentation have been pre-calibrated. The actual concentrations reported below are based on this preparation methodology and compound impurities.

Analyte	Raw Material	Nominal mg/L	Actual mg/kg
Arsenic, as As	Arsenic Trioxide	1000	1000 ± 0.2 %

1000 mg/kg is equivalent to 1005 mg/L @ 20°C

The expanded uncertainty (k=2) due to weighing, volumetric preparation and homogeneity is calculated in compliance with EURACHEM/CITAC Guide: Quantifying Uncertainty in Analytical Measurements as \pm 0.2 %. All values are verified by ICP-MS analysis using externally sourced ISO 17034 accredited Certified Reference Materials as calibrants/quality controls where possible.

DILUTION INSTRUCTIONS FOR PREPARATION OF EP 5000500 (10ppm As aq.)

- 1. To prepare EP 5000500 (As 10 ppm) dilute this solution to 100 times it's volume with purified water.
- 2. Prepare the dilute solution immediately before use.

TRACEABILITY IN THE PRODUCTION OF THIS STANDARD

This product was prepared gravimetrically on a mass/mass basis. The solute was weighed on a balance calibrated by Reagecon engineers using mass standards traceable to the National and International primary standard of mass. Reagecon holds ISO 17025 accreditation for calibration of non-automatic weighing machines. The resulting Balance Certificate of Calibration was issued in accordance with the requirements of ISO/IEC 17025. The balance was calibrated under monitored environmental conditions and atmospheric pressure. Tests were performed for capacity, readability, repeatability, eccentricity, and linearity.

TEST METHOD:

The mean result of this standard was verified using a calibrated ICP-MS system according to an in-house test method. The result reported in this certificate was confirmed by analysis of a sample of this lot taken at time of manufacture. The density of this standard was determined using a high-performance calibrated density meter.

This certificate relates solely to the lot number given above.

Approved By: QC Technician

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Date: 31st January 2024

This certificate must not be reproduced except in full.