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CERTIFICATE OF GRAVIMETRIC PREPARATION

| PRODUCT: | AA Standard Sodium 1000 mg/L | |
|----------------------|------------------------------|--|
| PRODUCT No.: | AANAH | |
| MATRIX: | 0.5M HNO ₃ | |
| LOT NO.: | AANAH24D1 | |
| DATE OF PREPARATION: | 11 st April 2024 | |
| EXPIRY DATE: | 28th April 2027 | |
| DENSITY VALUE: | 1.018 g/ml @ 20°C | |

PREPARATION OF STANDARD:

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 |
|---------------|----------------|--------------|-----------------|
| Sodium, as Na | Sodium Nitrate | 1000 | $999 \pm 1.0\%$ |

999 mg/kg is equivalent to 1017 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 ± 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.

TRACEABILITY IN THE PRODUCTION OF THIS STANDARD

This product was prepared gravimetrically on a mass/mass basis, using a balance calibrated by Reagecon engineers with 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 Supervisor

Atto

Date: 24th April 2024

This certificate must not be reproduced except in full.