



Certificate of Analysis.

Potassium Hydrogen Phthalate reference standard traceable to NIST, AnStan®.

Product Code:	BS10217.
Description:	Potassium Hydrogen Phthalate reference standard traceable to NIST, AnStan®.
Synonym:	Monopotassium Phthalate.
Pack:	100 gm.
CAS No.:	877-24-7.
Mol. Weight:	204.22 g/mol.
Mol. Formula:	C₈H₅KO₄.
MDL Number:	MFCD00013070.
Solubility:	Miscible in water.
Storage:	Store at ambient temperature.
Batch No:	Sample.
Manufacture Date:	Lot specific.
Expiry Date:	5 years.

Test	Specification	Measured Values
Appearance (Colour):	White crystalline.	Lot specific.
Appearance (Form):	powder.	Lot specific.
Insoluble matter:	NMT.0.005%.	Lot specific.
pH value (0.05M; Water):	4 to 4.02.	Lot specific.

Assay (C ₈ H ₅ KO ₄ ; Dried basis):	Lot specific (U = ± 0.01%, k = 2).
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Note: - This material is only for laboratory purpose and not for human consumption.

Certification & Traceability:

This product was manufactured, processed and/or certified under a quality management system that is complies with **ISO 17034:2016 and ISO/IEC 17025: 2017.**

The balances used in the preparation of this product are calibrated regularly, using a calibration provider that is complies with **ISO/IEC 17025.** All standard components used in the manufacture of this product are pre-qualified and verified before use. This product was analysed according to protocol developed by NIST and is directly traceable to **NIST SRM84L.**



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Tests were performed for capacity, readability, repeatability and linearity. This product is manufactured, packaged, stored, and shipped in accordance with good manufacturing practices that is certified to **WHO-GMP**. The uncertainty associated with each certified concentration represents the expanded uncertainty at the 95% confidence level using a coverage factor of **k=2**.

The combined uncertainty u is derived from combination of the squared uncertainty contributions:

$$U = k \times \sqrt{u^2 \text{Characterisation} + u^2 \text{Homogeneity} + u^2 \text{Stability}}$$

$u_{\text{Characterisation}}$: is the uncertainty in accordance with ISO/IEC 17025 which includes the contributions of the primary reference material and the measuring system.

$u_{\text{Homogeneity}}$: is the between-bottle variation in accordance with ISO 17034. The assessment of homogeneity is performed by analysis of a representative number of systematically chosen sample units.

$u_{\text{Stability}}$: is the uncertainty obtained from short-term and long-term stability in accordance with ISO 17034. The stability studies are the basis for the quantification of the expiry date of this reference material for the unopened bottle.

Validity Period:

Briti Scientific standards ensures the accuracy of this product for 5 years from the manufacture date given above, provided the instructions for use are followed.

Quality Certifications:

This product was prepared under a quality management system that is complies with the following:

ISO 17034:2016: Reference Materials Producer, CGI Certificate No. WGMP/22N2594 – General Requirements for the Competence of Reference Material Producers.

ISO 17034 references additional requirements specified in ISO Guide 31 and ISO Guide 35.

ISO/IEC 17025:2017: Chemical Testing, CGI Certificate No. UG/23N256- General Requirements for the Competence of Testing and Calibration Laboratories.

ISO 9001:2015 Certified: Quality Management Systems, CGI Certificate No. QMS/23N258.

WHO-GMP Certified: Good Manufacturing Practices, CGI Certificate No. WGMP/22N2594.



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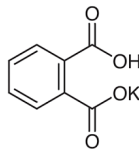
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Health and Safety Information:

Refer to the Safety Data Sheet (SDS), which can be obtained at www.britisscientific.com.

This certificate shall not be reproduced except in full, without written approval from Briti Scientific.
This is a computer generated COA, no stamp or signature is required.



N. Bharathi.
Quality Control.

N.S. Mallika.
Quality Assurance.



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