



Certificate of Analysis

Certipur[®] Reference Material

Merck Volumetric Standard

1.02408 Tris(Hydroxymethyl)-aminomethane
Batch No. 102408H

Secondary Reference Material for the acidimetry
traceable to Standard Reference Material of NIST
(National Institute of Standards and Technology, USA).

Merck volumetric standards are used for the adjustment and control of volumetric solutions.

They are manufactured under stringently controlled conditions in order to guarantee the highest quality standards. The general standard corresponds at least to the "GR" grade. It's suitability for use as a volumetric standard is based on a direct comparison with Standard Reference Material obtained from NIST.

The alkalimetric assay of this batch is

99.90%

- Measurement uncertainty: $\pm 0.05\%$ (coverage factor $k=2$; confidence level 95%).
- The content indicated is based on a molecular mass $M = 121.136$ g/mol dried substance.
- Directly traceable of NIST SRM Tris(hydroxymethyl)-aminomethane batch 723d
- Volumetric standard for standardisation of volumetric solutions in accordance to the chapter reagents of the Pharmacopoeia (USP).
- Standardisation was carried out using hydrochloric acid solution as titration solution using a potentiometric procedure.
- Drying: When used as a volumetric standard, the Tris(hydroxymethyl)-aminomethane must be kept 24 h in a desiccator above a drying agent with moisture indicator.
- Storage: The volumetric standard should be stored at room temperature (+15 to +25°C) tightly closed (in the original container) and protected from light and moisture.
- The original unopened container may be used until: 31.03.2015

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Dr. Stefan Frey
(responsible laboratory manager quality control)