

Buffer Quality Control Certificate

Nominal Specifications

pH Buffer Solution	Technical Buffer pH 4.01
Order number	51350004, 51350018

Buffer Properties

Actual pH Value Lot No. Solution	4.01 (The expanded uncertainty (k = 2) of the measurement is 0,02 pH)1B125B
Buffer Substances	Potassium hydrogen phthalate
Production Date Expiry Date	May 4, 2016 May 4, 2018

Traceability

For the calibration of the pH value of our buffer solutions, the measuring instruments were calibrated using two different reference buffer solutions, based on primary pH reference materials of the NIST¹.

The National Metrology Institutes compare their measurement capabilities periodically in key comparisons within the CIPM-MRA².

The international comparability, harmonization and the equivalence of their measurement capabilities are therefore ensured.

This guarantees a flawless traceability of the certified pH buffer solution values to NIST along with our Quality Management System. The certification is done for each lot.

Procedure NIST Standard solution value	Two point calibration 4.005 +/- 0.005 (25°C)	6.864 +/- 0.005 (25°C)	
Standard Reference Material SRM NIST	Potassium Hydrogen Phthalate	Potassium Dihydrogen Phosphate	Disodium Hydrogen Phosphate
Lot No SRM NIST	185i	186lg	186llg

1 National Institute of Standards and Technology, Geithersburg, USA

2 Mutual Recognition Arrangement of National Measurement Standards and of Calibration Certificates issued by National Metrology Institutes

Date of Certificate Issue	May 4, 2018
Quality Control	Peter Rowing

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