

## Certificate of Analysis

**Product Name:** Buffer Standard pH 7.01 ± 0.01 at 25°C (77°F)  
**Product Code:** HI7007L  
**Lot Number:** 1022  
**Date of Analysis:** 2025.01.14  
**Best use before:** January 2030  
**Reference Meter:** HI5522 pH meter, HI1131B pH probe  
**Reference Method:** ASTM D1293-1B

**Metrological Traceability:**

Calibration: Reference meter calibrated in 2-points by standard solution prepared from primary salts certified reference material SRMs from NIST.

Calibration verification: by standard solution prepared from primary salts certified reference material by ZMK accredited ISO 17034.

Standard solutions are prepared gravimetrically using balances accurate to ±0.0001g, that have been fully qualified and calibrated to ISO 17025 requirements, and deionized water for analytical use ISO 3696/BS 3978. The calibration is carried out at 25°C with thermostatic bath checked by thermometer traceable to the SI.

ZMK-CRM: pH-401 S batch S01/22

ZMK-CRM: pH-741 I-S batch S01/22, pH-741 II-S batch S01/22 mixture

NIST SRM: 185i

NIST SRM: 186-I-g, 186-II-g mixture

ZMK: Zentrum für Messen und Kalibrieren & ANALYTIK GmbH, Germany.

NIST: National Institute of Standards and Technology, Gaithersburg, USA.

**Intended use:** This reference material is intended for use as a calibration standard for pH meters or electrodes or as a control sample for measuring the pH value.

**Uncertainty U:** The uncertainty interval represents the expanded uncertainty with a coverage factor of 2 and represents the 95% level of confidence.

**Specifications:**

Standard Value	Mean Value	Measurement Unit	Passed
7.01	7.01	pH	✓

**Date of Issue:** 2025.01.14

**Reference Number:** 14A51

**Technical Manager:** Eugenia Tulbure



CoA\_HI7007x\_rev1.1\_February 2024

CE1010PM20176