

Material Number: BDH5072
Material Description: Buffer, Reference Standard
 pH 10.00 ± 0.01 at 25°C
 (Color Coded Blue)
Grade:
Lot Number: 4911F39
Use By: 2021-MAY-12
Date of Quality Control: 2019-DEC-06
Date of Manufacture: 2019-DEC-06

Characteristics	Specifications	Measured Values
Appearance	Clear, blue, odorless	Passed
pH at 25°C (Method: SQCP027, SQCP033)	9.99-10.01	10.01
pH at 25°C (Method: SQCP027, SQCP033) Uncertainty	0.01	0.01
NIST Traceability	passes test	passes test
EN/ISO17025 calibration laboratory	passes test	passes test

Signed on behalf of VWR:
Jim Gibbs
 Quality Control Supervisor

Other Information

Method:

pH value is measured with a glass electrode after 2-point calibration following a validated standard procedure. pH value has an expanded measurement uncertainty of ±0.01 pH using a coverage factor k=2 f a 95% probability.

Traceability:

This buffer solution is traceable to primary Standard Reference Materials (SRM) from National Institute of Standards and Technology (NIST): 186 and 191.

Preparation:

This buffer is prepared using sodium carbonate, sodium bicarbonate, and high purity water. Proprietary preservative and dye are added.

Storage

Store at 5°C to 30°C tightly closed in the original container.

Temperature dependence:

Temperature °C	0	5	10	15	20	25	30	35	40	50
pH	10.31	10.23	10.17	10.11	10.05	10.00	9.95	9.91	9.87	9.81