



VWR ANALYTICAL

# Certificate of Analysis

**Material Number:** BDH5072  
**Material Description:** Buffer, Reference Standard  
 pH 10.00 ± 0.01 at 25°C  
 (Color Coded Blue)  
**Grade:**  
**Lot Number:** 2701809  
**Use By:** 07/2018  
**Date of Quality Control:** 01/2017  
**Date of Manufacture:** 01/2017

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

Signed on behalf of VWR:  
*Katie Schnur*  
 Quality Control Manager

## 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 for 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