

Product Specification

Buffer, Reference Standard, pH 10.00 ± 0.01 at 25°C (Color Coded Blue)

Lot Number: SAMPLE

Product Number: 1601

Manufacture Date: N/A

Expiration Date: N/A

The certified value for this product is confirmed in independent testing by a second qualified chemist.

The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

| | | | | | | | | | | |
|----|-------|-------|-------|-------|-------|-------|------|------|------|------|
| °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 |

| Name | CAS# | Grade |
|--------------------|-------------|-----------------|
| Water | 7732-18-5 | ACS/ASTM/USP/EP |
| Sodium Carbonate | 497-19-8 | ACS |
| Sodium Hydroxide | 1310-73-2 | Reagent |
| Sodium Bicarbonate | 144-55-8 | ACS |
| Preservative | Proprietary | |
| Blue Dye | Proprietary | |

| Test | Specification | Result | NIST SRM# |
|------------------------|---------------|--------|-----------|
| Appearance | Blue liquid | N/A | |
| pH at 25°C | 9.990-10.010 | N/A | 186 & 191 |
| pH at 25°C Uncertainty | 0.03 | N/A | |

| Specification | Reference |
|-----------------------------|-----------------|
| Commercial Buffer Solutions | ASTM (D 1293 B) |
| Buffer C | ASTM (D 5464) |
| Buffer C | ASTM (D 5128) |

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

| Part Number | Size / Package Type | Shelf Life (Unopened Container) |
|-------------|--------------------------|---------------------------------|
| 1601-2.5 | 10 L Cubitainer® | 18 months |
| 1601-4 | 120 mL natural poly | 18 months |
| 1601-32CS | 12 x 1L natural poly | 18 months |
| 1601-16CS | 12 x 500 mL natural poly | 18 months |
| 1601-32 | 1 L natural poly | 18 months |
| 1601-20B | 200 x 20 mL pack | 18 months |
| 1601-5 | 20 L Cubitainer® | 18 months |
| 1601-20 | 20 mL pouch | 18 months |
| 1601-20 | 20 x 20 mL pack | 18 months |
| 1601-1 | 4 L natural poly | 18 months |
| 1601-1CT | 4 L Cubitainer® | 18 months |
| 1601-1CS | 4 x 4 L natural poly | 18 months |

| | | |
|---------|---------------------|-----------|
| 1601-16 | 500 mL natural poly | 18 months |
| 1601-55 | 55 gal drum | 18 months |

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Katie Schnur

Katie Schnur
Quality Control Manager

This Certificate of Analysis is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."



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