



# Certificate of Analysis



Mesa Laboratories Inc  
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Description: Standard Buffer Solution **4.0 pH @ 25°C**  
Part Number: **02.0032**  
Lot No: **ML-P4-1572**  
Certification Date: **February 13, 2020**  
Expiration Date: **August 04, 2021**

| Nominal Value (pH Units) | Measured Value (pH Units) | Tolerance @ 25°C (pH Units) | Measured Value In Tolerance | Reference System Standards   | Reference System Uncertainty @ 25°C (pH Units) |
|--------------------------|---------------------------|-----------------------------|-----------------------------|------------------------------|--|
| <b>4.000</b>             | <b>4.000</b>              | $\pm 0.01$                  | Yes                         | NIST SRM 186<br>NIST SRM 185 | $\pm 0.006$                                    |

### Test Methods

- All analytical balances are calibrated by an ISO/IEC 17025:2005 accredited calibration laboratory. All balances are checked prior to use using an in-house procedure. Weights used for testing are traceable to NIST.
- All thermometers are NIST traceable through reference temperature probes that are calibrated by an ISO/IEC 17025:2005 accredited calibration laboratory.
- Measurements are taken at  $25^{\circ}\text{C} \pm 0.25^{\circ}\text{C}$  using EPA Method 150.1 and are temperature compensated.
- Uncertainty is calculated using an Expanded Uncertainty  $U=kuc$  ( $k=2.00$ ).

### Intended Use

This standard solution is indicated for use as a secondary standard for calibrating pH meters.

### Hazardous Information

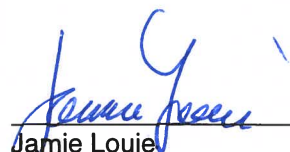
Please refer to the Material Safety Data Sheet available on our website for information on this material

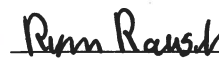
### Stability and Storage

Protect from temperature extremes. Discard if solution has been frozen. Do not return used solution into the container. Keep cap tightly sealed when not in use. Discard 90 days after opening.

### Conformance Statement

Mesa Laboratories Inc certifies that the above referenced product was tested using the N.I.S.T. traceable standards listed above, and meets or exceeds all published specifications as printed on the product label.

  
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Jamie Louie  
Senior Quality Manager  
Instruments Division

  
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Ryan Rausch  
Manufacturing Lead