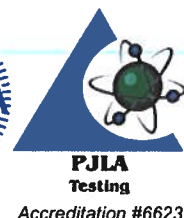




# Certificate of Analysis



Mesa Laboratories Inc  
12100 West 6<sup>th</sup> Ave., Lakewood, CO 80228  
TEL (303) 987-8000 FAX (303) 987-8989  
[www.mesalabs.com](http://www.mesalabs.com)

Description: **Standard Buffer Solution 4.00 pH @ 25°C**  
Part Number: **02.0032**  
Lot No: **ML-P4-1687**  
Certification Date: **2021-09-15**  
Expiration Date: **2023-03-15**

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)
4.000	4.004	±0.01	Yes	NIST SRM 186 NIST SRM 185	±0.006

### Test Methods

- All analytical balances are calibrated by an ISO/IEC 17025:2017 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 17025:2017 accredited calibration laboratory.
- Measurements are taken at 25°C ± 0.25°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 meets or exceeds published specifications, and that the test results in this certificate were obtained using equipment capable of producing results that are traceable through N.I.S.T. to the International System of Units (SI). Testing results are in compliance with ISO/IEC 17025:2017. Any Pass/Fail determination is made without taking measurement uncertainty into account and is based on UUT performance against required tolerance only. The customer must ensure product tested meets the intended use. This testing report applies only to the item described. This document may not be reproduced except in full. © 2020 Mesa Laboratories, Inc. All rights reserved.

**Christen Allen**  
Quality Engineer

Ryan Rausch  
Manufacturing Lead