



# 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: **Combined Standard Solution 14.0 mS/cm 7.00 pH @ 25°C**  
 Part Number: **02.0070**  
 Lot No: **ML-P7C14-1639**  
 Certification Date: **2021-01-19**  
 Expiration Date: **2022-07-19**

Nominal Value (mS/cm)	Measured Value (mS/cm)	Tolerance @ 25°C (mS/cm)	Measured Value In Tolerance	Reference System Standard	Reference System Uncertainty @ 25°C (mS/cm)
14.000	14.000	±0.03	Yes	NIST SRM 999	±0.008

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)
7.000	6.991	±0.03	Yes	NIST SRM 186 NIST SRM 191	±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.
- Conductivity measurements are taken at 25°C ± 0.25°C using SOP-00102 and are temperature compensated. Uncertainty is calculated using a 95% confidence interval using the Student's T Test for (n=30).
- pH 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 calibrating conductivity meters and 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 30 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.

*Jasmine Poeppel* 22-JAN-2021  
 Jasmine Poeppel  
 Quality Manager

*Ryan Rausch*  
 Ryan Rausch  
 Manufacturing Lead