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## CERTIFICATE OF ANALYSIS

<i>Product:</i>	<b>Buffer, Reference Standard, pH = 7.00 (Yellow)</b>	<i>Date of Manufacture:</i>	10/8/24
		<i>Expiration Date:</i>	November 2026
<i>Intended Use:</i>	Calibration of pH Meters.	<i>Recommended Storage:</i>	15 to 25 °C (59 to 77 °F)
<i>Product Code:</i>	CP-E1238, CP-C1238P, CP-A1238P	<i>Lot Number:</i>	<b>8410207</b>
		<i>Country of Origin</i>	United States of America

This solution is traceable to the NIST Standard Reference Materials (SRMs) Potassium Dihydrogen Phosphate (186-I), Disodium Hydrogen Phosphate (186-II), Sodium Bicarbonate (191-I) and Sodium Carbonate (191-II).

Test	Specification	Result
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pH at 25°C	6.99 - 7.01	7.00
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This buffer is tested in Charlotte, NC under ISO/IEC 17025 accreditation (PJLA Accreditation 64539) and is standardized against National Institute of Standards and Technology (NIST) Traceable Buffer Solutions prepared according to exact NIST instructions. The solution is checked and verified using two independently calibrated high precision pH meters. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before use 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 are calibrated before use with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture and testing according to validated methods. Batch records document raw material traceability as well as production and testing history for each lot manufactured.

Quality Control, Certifying Officer

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

## CERTIFICATE OF ANALYSIS

<i>Product:</i>	<b>Hydrochloric Acid, 1.0 N (1.0 M)</b>	<i>Date of Manufacture:</i>	2/14/24
		<i>Expiration Date:</i>	March 2026
<i>Intended Use:</i>	General Laboratory Reagent/Chemical.	<i>Recommended Storage:</i>	15 to 25 °C (59 to 77 °F)
<i>Product Code:</i>	CP-B2413P, CP-E2415P, CP-C2414P	<i>Lot Number:</i>	<b>8402203</b>
		<i>Country of Origin</i>	United States of America

Standardized against NIST SRM Tris(hydroxymethyl)aminomethane, 723

Test	Specification	Result
Appearance	Colorless	colorless
Assay (vs. Tris(hydroxymethyl)aminomethane)	0.998 - 1.002Normal	1.001Normal

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.



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