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## CERTIFICATE OF ANALYSIS

*Product:* **Potassium Hydroxide, 45% w/w** *Date of Manufacture:* 7/21/2023  
*Intended Use:* General Laboratory Reagent/Chemical. *Expiration Date:* August 2026  
*Product Code:* CP-E4258 *Recommended Storage:* 15 to 25 °C (59 to 77 °F)  
J7285000 *Lot Number:* **8307621**  
*CAS Number:* 7732-18-5;1310-58-3 *Country of Origin:* United States of America

Test	Specification	Result
Appearance	Colorless	Colorless
Assay	>= 45.0 % w/w	45.6% w/w
Chloride (Cl)	<= 0.003 %	0.003%
Heavy Metals (as Ag)	<= 5 ppm	0ppm
Iron (Fe)	<= 2 ppm	1ppm
NH <sub>4</sub> OH Precipitate	<= 0.005 %	0.005%
Nickel (Ni)	<= 5 ppm	5ppm
Nitrogen Compounds (as N)	<= 5 ppm	5ppm
Phosphate (PO <sub>4</sub> )	<= 2 ppm	2ppm
Potassium Carbonate (K <sub>2</sub> CO <sub>3</sub> )	<= 0.2 %	0.2%
Sodium (Na)	<= 0.02 %	0.01%
Sulfate (SO <sub>4</sub> )	<= 0.001 %	0.001%

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.

Quality Control, Certifying Officer

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