

Certificate of Analysis

Product: Ethanol HPLC Grade 200 Proof (100%) Non-Denatured Pure Alcohol

Item Number: EAPHPLC200

Grade: HPLC

Lot Number: 5001372/1.1

Manufacture Date: 06/10/2025

Expiration Date: 06/09/2028

Country of Origin: United States

Tested Property	Specification	Analysis
Assay by GC (Corrected for water)	Min 99.50%	99.98
Color APHA	Max 10	1
Solubility in Water	To Pass Test	Passes
Residue after Evaporation	Max 0.001%	0.000
Acetone/Isopropyl Alcohol	To Pass Test	Passes
Titration Acid	Max 0.0005 meq/g	0.0002
Titration Base	Max 0.0002 meq/g	0.0001
Methanol	Max 0.1%	Passes
Substances Darkened by Sulfuric Acid	To Pass Test	Passes
Substances Reducing Permanganate	To Pass Test	Passes
UV Absorbance (ACS)	Max 0.01AU @ 270-400 nm	0.00
	Max 0.08 AU @ 240 nm	0.05
	Max 0.18 AU @ 230 nm	0.12
	Max 0.30 AU @ 220 nm	0.23
Proof	Lot Analysis	200.0
Specific Gravity	Max 0.7962 @ 15.56°C	0.7937
Water	Max 0.2 wt%	0.02
Acidity or Alkalinity	The solution is pink (30µL/L, expressed as acetic acid)	Pass
Clarity of Solution	The Sample solution has the appearance of water	Pass
Color of Solution	The Sample solution is less intensely colored than Standard solution	Pass

Phone: 512-668-9918, Fax: 512-886-4008,

E-mail: customercare@laballey.com,

www.laballey.com,

12501 Pauls Valley Road, Suite A, Austin, Texas 78737.

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Identification Test A (Specific Gravity)	To pass tests	Pass
Identification Test B (Infrared Spectroscopy)	Conforms to IR Spectra	Pass
Identification Test C (Limit of Methanol)	NMT 200 µL/L (200ppm)	Pass
Limit of Nonvolatile Residue	NMT 2.5 mg	0.0
Organic Impurities - Acetaldehyde and Acetone	NMT 10µL/L, (acetaldehyde)	0
Organic Impurities - Benzene	NMT 2µL/L	0
Organic Impurities - Methanol	NMT 200µL/L	0
Organic Impurities - Sum of all other impurities	NMT 300µL/L	0
UV Absorbance (USP)	NMT 0.40 at 240 nm	0.25
	NMT 0.30 between 250 and 260 nm	0.10
	NMT 0.10 between 270 and 340 nm	0.01
	The spectrum shows a steadily descending curve	Pass

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