

**Certificate of Analysis**

**Product: Organic Ethyl Alcohol, Sugar Cane, 190 Proof, Kosher, Halal**

**Item Number: EAOS190**

**Grade: FCC**

**Lot Number: 5001138/1.3**

**Manufacture Date: 02/14/2024**

**Expiration Date: 02/13/2027**

**Country of Origin: United States**

<b>Tested Property</b>	<b>Specification</b>	<b>Analysis</b>
Alcohol content 20°C, (%V)	94.00 - 95.20	95.02
Proof	189.6 - 190.04	190.04
Specific gravity 20°C, g/cm <sup>3</sup>	0.8124 - 0.8129	0.8128
Density, lbs/gal	6.77 - 6.78	6.77
Fusel oil odor	No foreign residue or odor	No odor
Water solubility	Completely miscible	Pass
Opacity	Clear and sparkling	Clear
Acidity as acetic acid	Max 0.003%	0.000
Nonvolatile residue	Max 0.003%	0.00
Acetadehyde	Max. 10.0 ppm	0
Methanol	Max 50 ppm	0
Benzene	Max 2 ppm	0
Fusel Oil	Max 300 ppm	0
Acetone, other ketone, IPA, t-butyl alcohol	No ppt after 3 min	Pass
Aldehydes & other foreign org. subs. reducing permanganate	Pink color present after 5 min	Passed @20.0 min
Amyl alcohol & nonvolatile carbonizable substances	No red or brown color produced	None produced
Ultravoilet absorption	Curve@240,250,260,270 & 340nm	Passed

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