

CERTIFICATE OF ANALYSIS

Product Name: ISOPROPANOL 70%
Grade: Meets USP/NF Reagent Monographs
Catalog # 211USP/NF, zp211USP/NF
Lot # K20E0702600IPA70E801
Date of Manufacture: 05/08/20
Recommended Retest Date: Five Years from Date of Manufacture
Manufactured by: Greenfield Global USA Inc. 1101 Isaac Shelby Drive, Shelbyville KY 40065
Packaged by: Greenfield Global USA Inc. 1101 Isaac Shelby Drive, Shelbyville KY 40065
Country of Origin USA

TEST	SPECIFICATION	RESULT
Appearance	Clear	Pass
Assay (by specific gravity of distillate)	0.950 - 0.955 @ 25°C	0.953
Assay (by volume)	68.0 - 72.0%	69.6%
Water (by volume)	28.0 - 32.0%	30.4%
Specific Gravity @ 20°C	0.872-0.883	0.879
Acidity	NMT 1.0 ml of 0.02N NaOH required for neutralization	0.4 mL
Limit of Non-Volatile Residue	NMT 5 mg	<1 mg
Color (APHA)	5 max	<1
Identification	Conforms to IR Spectrum	Pass

Certification and Compliance Statements

<p>This lot of Isopropyl Alcohol 70% complies with all of the current requirements listed in the United States Pharmacopeia and National Formulary Monographs. This lot of isopropyl Alcohol 70% was made with USP grade IPA and purified water. 0.22 micron filtered.</p>
<p>This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.</p>
<p>This product is for further commercial manufacturing, laboratory or research use, and may be used as an excipient or a process solvent for pharmaceutical purposes. It is not intended for use as an active ingredient in drug manufacturing nor as a medical device or disinfectant. Appropriate/legal use of this product is the responsibility of the user.</p>

Approved by: C. Ebling, Chemist

Date: 05/08/20

