

**CERTIFICATE OF ANALYSIS**

**Product Name:** ISOPROPANOL 70%  
**Grade:** Meets USP/NF Reagent Monographs  
**Catalog #** 211USP/NF, zp211USP/NF  
**Lot #** K21C0102600IPA70CA01  
**Date of Manufacture:** 03/10/21  
**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%	68.8%
Water (by volume)	28.0 - 32.0%	31.2%
Specific Gravity @ 20°C	0.872-0.883	0.881
Acidity	NMT 1.0 ml of 0.02N NaOH required for neutralization	0.2 mL
Limit of Non-Volatile Residue	NMT 5 mg	4 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: J. Sheldon, Lab Technician

Date: 03/10/21

