

PRODUCT SPECIFICATIONS SHEET

Product Name Grade Catalog # Glycerin Derived from Natural Ingredients Kosher USP/NF Grade 349000000

TEST	MONO- GRAPH	SPECIFICATION	TYPICAL RESULT
Identification Test A	USP	Conforms to Reference	Pass
		Spectrum	
Identification Test B - Limit of DEG	USP	NMT 0.1%	None Detected
Identification Test B - Limit of EG	USP	NMT 0.1%	None Detected
Identification Test C - Gas	USP	Conforms to Reference	Pass
Chromatography		Chromatogram	
Assay on anhydrous basis	USP	99.0-101.0%	100.00 %
Inorganic Impurities - Chloride and Sulfate (as Chloride)	USP	NMT 10ppm	LT 10 ppm
Inorganic Impurities - Chloride and Sulfate (as Sulfate)	USP	NMT 20ppm	LT 20 ppm
Inorganic Impurities - Residue on Ignition	USP	NMT 0.01%	0.00 %
Organic Impurities-Related Compounds-Individual Impurities	USP	NMT 0.1%	None Detected
Organic Impurities - Related Compounds - Total Impurities	USP	NMT 1.0%	None Detected
Organic Impurities – Limit of Chlorinated Compounds	USP	NMT 30ppm of Cl	LT 30 ppm
Organic Impurities - Fatty Acids and Esters	USP	NMT 1mL 0.5N NaOH consumed	0.30 ml
Color	USP	Not darker than standard	Pass
Specific Gravity	USP	NLT 1.249 @25°C	1.260
Water Determination	USP	NMT 5.0%	0.07 %

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Certification and Compliance Statements

This product complies with all of the current requirements listed in the United States Pharmacopeia monograph.

This product is not derived, nor does it come in contact with, any materials derived from bovine or other animal sources.

No chemicals whatsoever are used as solvents at any point in the manufacture, processing or packaging of Glycerin. Only Class 2 and Class 3 residual solvents may appear as impurities / related substances / low level contaminants in Glycerin. Concentration of Class 2 Option 1 and Class 3 residual solvents is below limits in the current USP/NF General Chapter <467> and ICH Q3C Impurities: Residual Solvents.

This product is for further commercial manufacturing, laboratory, or research use, and may be used as an 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.