PRODUCT SPECIFICATIONS

Product Name: Glycerin, 99.7% USP*, Non-GMO, Kosher, Mass Balance
Product Code:TRG100VKMB
Chemical Name: Glycerol
CAS Number: 56-81-5

***For excipient use only. Complies with USP-NF (US Pharmacopeia-National Formulary) and FCC (Food Chemical Codex) specifications.**

Kosher for Passover

Properties	Specifications	Methods
Color, APHA	10 max	Td 1b-64
Color, Ferric Chloride	Passes	USP/NF
Identification A, IR	Passes as glycerin	USP #197F
Identification B, *Limit of DEG & EG*	Passes *(≤ 0.1% of each DEG & EG)*	USP/NF
Identification C, GC	Passes glycerin	USP/NF
Specific Gravity (SG)	1.249 min @25/25ºC	USP #841
Glycerin (calc. from Sp. Gr.)	99.7% min	USP #841
Residue on Ignition (ROI)	0.01% max	USP #281
Water	0.3% max	USP #921
Chloride	Passes (10ppm or 0.001% max)	USP #221
Sulfate	Passes (20ppm or 0.002% max)	USP #221
Elemental Impurities	Meets Oral PDE Limits	USP #232 & 233
Limit of Chlorinated Compds.	Passes (30ppm or 0.003% max)	USP/NF
Fatty Acids & Esters *(FA & E)*	1 ml. max of 0.5N NaOH consumed	USP/NF
Related Compounds	≤ 0.1% any other individual impurity and ≤ 1.0% for total impurities	USP/NF
Assay, anhydrous	99.0 - 101.0%	USP/NF
Residual Class 1 & 2 Solvents	Passes	USP #467

All data, including the formulations and procedures discussed herein are believed to be correct. However, this should not be accepted as a guarantee of their accuracy, and confirming tests should be run in your own plant or laboratory. No statement shall be construed as a recommendation for any use which would violate patent rights. Sales of all products are pursuant to terms and conditions included in Twin Rivers Technologies' sales documents. Nothing contained herein shall constitute a guarantee or warranty with respect to the products described or their use. Safety information regarding this product is contained in its Safety Data Sheet (SDS). Consumers of this product are urged to study and use the information contained on the SDS.

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