

CERTIFICATE OF ANALYSIS

PRODUCT: GLYCERINE USP KOSHER (IBC'S)
BATCH NUMBER: B-200305
EXPIRY DATE: 18/07/2024

Parameters	Specification	Results
Glycerin ASSAY (C ₃ H ₈ O ₃ , Calculated on the anhydrous basis)	99.0 – 101.0	99.90
Water Content	0.3%W/W max	0.13%
Specific Gravity @25°C	1.249 min	1.2618
Colour	Pass	Passed
Residue on Ignition	0.01% max	<0.01%
Chlorides	10 PPM max	2 PPM
Sulphates	20PPM max	<20 PPM
Heavy Metals (as Pb)	5PPM max	<5 PPM
Limit of Chlorinated Compounds	30 PPM max	<30 PPM
FA & E AS ML OF 0.5N NaOH max	1 max	0.54ML OF 0.5N NaOH was consumed
<u>IDENTIFICATION</u> -A(IR) -B(Limit of Diethylene Glycol & Ethylene Glycol) - DIETHYLENE GLYCOL - ETHYLENE GLCYOL -C (RT of Glycerine's Peak)	Pass 0.10% max 0.10% max Meet test requirement	Passed <0.10% <0.10% Complies
<u>RELATED COMPOUNDS</u> -INDIVIDUAL IMPURITIES (excluding any Solvent Peak & Diethylene Glycol) -TOTAL IMPURITIES	0.1 %max 1.0% max	All the Individual Impurities are less than <0.1% <1.0%
Glycerol	99.7% min	99.87%
Colour,APHA	10 max	4
Arsenic	1.5PPM max	<0.1PPM