

Certificate of Analysis

Product Name: Glycerin, USP
INCI Name: Glycerin
CAS Number: 56-81-5
Lot Number: Not available (data may vary slightly with different lots or batches)
Expiration Date: 24 months from production date

Property	Specification	Analysis
Appearance (USP)	PASS	PASS
Purity by Specific Gravity (USP)	99.7% MIN	99.71
Specific Gravity @ 25° C (USP)	1.2613 MIN	1.2613
Identification A by FTIR (USP)	PASS	PASS
Identification B (USP)	PASS	PASS
Diethylene Glycol (USP)	0.10% MAX	<0.10
Ethylene Glycol (USP)	0.10% MAX	<0.10
Identification C (USP)	PASS	PASS
Related Compounds - Individual (USP)	0.1% MAX	<0.1
Related Compounds - Total (USP)	1.0% MAX	<1.0
Assay (Anhydrous Basis) (USP)	99.0 - 101.0%	99.84
Sulfates (USP)	20 ppm MAX	<20
Chlorides (USP)	10 ppm MAX	<10
Chlorinated Compounds (USP)	30 ppm MAX	<30
Fatty Acids & Esters (USP)	MAX 0.30ml NaOH	0.11
Heavy Metals (USP)	5 ppm MAX	<5
Lead (USP)	1 ppm MAX	<1
Residue on Ignition (USP)	0.01% MAX	0.000
Color (APHA)	10 APHA MAX	0
Readily Carbonizable Substances (USP)	PASS	PASS
Moisture (USP)	0.30% MAX	0.10
Odor (USP)	PASS	PASS
Residue Solvents (USP)	PASS	PASS

REMARKS:

This is to certify that the above mentioned batch has been analyzed at the time of quality release and has been found to be complying with the label claim/prescribed specifications.