

Certificate of Analysis



Luvama Biolab Co., Ltd.

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- **Product name** : Organic Glycerin (USDA Organic)
- **Origin** : Organic certified Vegetable oils
- **Origin of Product** : India
- **INCI NAME** : Glycerin
- **Lot No** : GFN/OGLY/0095/20
- **Certificate of Analysis**

TEST PARAMETERS	SPECIFICATIONS	RESULTS	METHOD
Color a.Ferric Chloride Std. *b.APHA	To pass the test Max 5	Passes <5	AOAC 982.35
Identification a.IR b. Retention Time	To Pass the test To Pass the test	Passes Passes	USP 197F
Specific Gravity @25°C	Min 1.256	1.257	AOAC 920.212
Residue On ignition	<10ppm	0.0015	AOAC 982.19
Water %	Max 0.5%	0.14	AOAC 968.11
Chloride	Max 0.001	Nil	AOAC 971.27
Sulfate %	Max 0.002	Nil	AOAC 2014.009
Limit of chlorinated compounds	Max 0.003%	Passes	-
Fatty acids & esters	NMT 1ml of 0.5N NaOH	0.01	USP 541
Realated Compounds	NMT 0.1% of any individual Impurity & NMT 1.0% of total impurities	0.002	USP 621
Assay %(on anhydrous basis)	Min 99.5 - 101	99.84	USP 197F
Content of Diethylene glycol and Ethyl glycol	Not more than 0.01%	Nil	USP 197F
Content of 3-Monochlopropan-1,2-diol	Not more than 0.001%	Nil	-
Refractive index	1.470 - 1.475	1.474	USP 831
Assay - Glycerol %	NLT 99.5	Complies	-
pH	6.5 - 7.5	6.8	USP 791
HEAVY METAL ANALYSIS			
Total Heavy Metal	NMT 10 ppm	Complies	AOAC 2015.01
Lead	NMT 2 ppm	Complies	AOAC 999.11
Cadmium	NMT 1 ppm	Complies	AOAC 999.11
Mercury	NMT 0.1 ppm	Complies	AOAC 999.11
Arsenic	NMT 1 ppm	Complies	AOAC 999.11

Result : The given material Passes as per the above specification.

Date of manufacture : 2020.08

Shelf-life : 3 year from the manufacture date

tested	approved



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USDA Organic Certified Organic by CU	 CU827185
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