

KL-Kepong Oleomas Sdn Bhd (587027-T)

No. 25 Jalan Sungai Pinang 5/18, Fasa 2D, Taman Perindustrian Pulau Indah,
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Manufacturing : 603 3101 2633 Fax : 603 3101 3299

KLK OLEO

CERTIFICATE OF ANALYSIS

COMMODITY2 : PALMERA REFINED GLYCERINE USP 99.7% LIQUID

OUR SALES ORDER : 2000236000-0

BATCH NUMBER/ LOT NUMBER : 3A1111K

CUSTOMER ORDER : FSH-20210811

L/C NO. : LC0957621007476

ISSUED BY MANUFACTURER : KL-KEPONG OLEOMAS SDN BHD

We certify, that we have examined a sample of the above mentioned goods with the following results :

Test Description	Unit	Reference Test Method	Min	Max	Result
Glycerine Content	%	USP	99.70		99.91
Specific Gravity 25/25°C		USP	1.2612		1.2618
Colour APHA	HAZEN	AOCS Ea 9-65		10	2
*Residue on Ignition	%	USP		0.01	<0.01
Chloride	ppm	USP		10	<10
*Sulfate, ≤ 20 ppm		USP	Pass		Pass
*Heavy Metals as Pb, ≤ 1ppm		AAS/ICP	Pass		Pass
*Chlorinated Compounds, ≤ 30 ppm		USP	Pass		Pass
Fatty Acids & Esters, ml 0.5N NaOH	ml	USP		1.0	0.5
Water	%	USP		0.30	0.01
*Identification A - Infrared Absorption		USP	Pass		Pass
*Identification B - Limit of DEG & EG <0.1% respectively		USP	Pass		Pass
*Identification C - Chromatography		USP	Pass		Pass
Related Compounds-*Individual Impurities	%	USP		0.1	<0.1
Related Compounds-*Total Impurities%		USP		1.0	<1.0

* Parameter is not tested on every batch and result is determined statistically

Recommended retest date/expiry date is only valid for product in its original and unopened package.

For and on behalf of
KL-Kepong Oleomas Sdn Bhd

