

PALM-OLEO SDN. BHD. (1160006-V)

Lot 1245, Kundang Industrial Estate,
48020 Rawang, Selangor Darul Ehsan, Malaysia.

Sales Office : 603-7809 8833

Fax : 603-7727 1301/1307

Manufacturing : 603-6034 4800

Fax : 603-6034 2340 / 603-6034 1279

KLK OLEO

CERTIFICATE OF ANALYSIS

PRODUCT	: PALMERA REFINED GLYCERINE USP 99.5% LIQUID
DATE OF CERTIFICATE	: 12-OCTOBER-2019
OUR SALES ORDER	: 2000138899-0
LOT NO	: 1A3699J
QUANTITY	: 20.000 MT
MANUFACTURING DATE	: 13-SEPTEMBER-2019
RETESTING DATE	: 12-SEPTEMBER-2021

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	99.5		99.9
Specific Gravity 25/25°C		USP	1.2607		1.2619
Colour APHA	HAZEN	AOCS Ea 9-65		10	0
*Residue on Ignition	%	USP		0.01	<0.01
Chloride	ppm	USP		10	3
*Sulfate, ≤ 20 ppm		USP	Pass		Pass
*Heavy Metals as Pb, ≤ 5 ppm		USP	Pass		Pass
*Chlorinated Compounds, ≤ 30 ppm		USP	Pass		Pass
Fatty Acids & Esters, ml 0.5N NaOH	ml	USP		1.0	0.3
Water	%	USP		0.5	0.0
*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

**DOCUMENTO
EXTERNO**

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