

PALM-OLEO (KLANG) SDN. BHD. (4368227)
 Lot 1 & 2 Solok Waja 3, B-Kit Raja Industrial Estate,
 41050 Klang, Selangor Darul Ehsan, Malaysia.

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 Manufacturing : 603-3341 2115 Fax : 603-3342 7877



Todo Droga

CERTIFICATE OF ANALYSIS

PRODUCT : PALMESTER 3595 CAPRYLIC/ CAPRIC TRIGLYCERIDE
 DATE OF CERTIFICATE : 28-AUGUST-2021
 OUR SALES ORDER : 2000224374-0
 BATCH NUMBER/ LOT NUMBER : 1M0431F
 QUANTITY : 4.560 MT
 MANUFACTURING DATE/ PRODUCTION DATE : 05-JUNE-2021
 RECOMMENDED RETEST DATE/ EXPIRY DATE : 04-JUNE-2024
 CUSTOMER PO NUMBER : 003180/21

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
Appearance		EP	Pass		Pass
Acid Value	mg KOH/g	EP		0.1	0.0
Saponification Value	mg KOH/g	EP	325	345	334
Iodine Value	g/100g	EP		1.0	0.2
Hydroxyl Value	mg KOH/g	EP		10	4
Peroxide Value	meq/kg	EP		1.0	0.1
Colour APHA	HAZEN	ASTM D1209-84		50	28
Moisture	%	EP		0.15	0.02
C6 Fatty Acid	%	In-house method		2.0	0.0
C8 Fatty Acid	%	In-house method	55	65	61
C10 Fatty Acid	%	In-house method	35	45	39
C12 Fatty Acid	%	In-house method		3.0	0.0
C14 Fatty Acid	%	In-house method		1.0	0.0
>C16 + C16 Fatty Acid	%	In-house method		0.1	0.0
* European Pharmacopeia Monograph		EP	Pass		Pass
* Relative Density 20/20 °C	-	EP	0.93	0.96	0.95
* Refractive Index N20/D	-	EP	1.440	1.452	1.450
* Viscosity at 20°C	mPa.s	EP	25	33	29
* Sulphated Ash	%	EP		0.1	0.0
* Unsaponifiables	%	EP		0.5	0.3
* Alkaline Impurities (0.01M HCl)	ml	EP		0.15	0.00
* Heavy Metals	ppm	EP		10	<1
* Chromium (Cr)	ppm	EP		0.05	<0.05
* Copper (Cu)	ppm	EP		0.1	<0.1
* Lead (Pb)	ppm	EP		0.1	<0.1
* Nickel (Ni)	ppm	EP		0.2	<0.1
* Tin (Sn)	ppm	EP		0.1	<0.1
* Arsenic (As)	ppm	AOAC 986.15		0.5	<0.0

* 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.

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