



CERTIFICATE OF ANALYSIS

PRODUCT : PALMESTER 3595 CAPRYLIC/ CAPRIC TRIGLYCERIDE
 DATE OF CERTIFICATE : 27-NOVEMBER-2020
 OUR SALES ORDER : 2000185511-0
 BATCH NUMBER/ LOT NUMBER : 1M0520G
 QUANTITY : 2.280 MT
 MANUFACTURING DATE/ PRODUCTION DATE : 05-JULY-2020
 RECOMMENDED RETEST DATE/ EXPIRY DATE : 05-JULY-2023
 CUSTOMER PO NUMBER : 341/20

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	337
Iodine Value	g/100g	EP		1.0	0.1
Hydroxyl Value	mg KOH/g	EP		10	6
Peroxide Value	meq/kg	EP		1.0	0.1
Colour APHA	HAZEN	ASTM D1209-84		50	14
Moisture	%	EP		0.15	0.02
C8 Fatty Acid	%	In-house method		2.0	0.0
C8 Fatty Acid	%	In-house method	55	65	58
C10 Fatty Acid	%	In-house method	35	45	42
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.

This is a computer generated printout and no signature is required.