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## CERTIFICATE OF ANALYSIS

**PRODUCT NAME: LEMON SEED OIL, REFINED**

**LOT NUMBER: LOT0002585**

PRODUCT INCI: CITRUS LIMON SEED OIL

PRODUCT CODE: K0258

CAS NUMBER: 92346-89-9 / 84929-31-7 / 85085-28-5

EINECS NUMBER: 296-174-2 / 284-515-8 / 285-359-3

MANUFACTURING METHOD: EXPPELLER PRESSED & REFINED

MANUFACTURING DATE: 01/03/2019

BEST BEFORE DATE: 01/03/2021

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	OILY LIQUID	-
COLOUR	CLEAR – LIGHT YELLOW	-
COLOUR (LOVIBOND)	<35.0Y, <2.5R	23Y, 1.5R
ODOUR	ODOURLESS	-
SPECIFIC GRAVITY @ 20°C	0.910 – 0.920	0.915
REFRACTIVE INDEX @ 20°C	1.465 – 1.476	1.470
SAPONIFICATION VALUE	188.0 – 195.0	191
FREE FATTY ACID (% AS OLEIC)	<0.5	0.1
PEROXIDE VALUE	<10.0	1.5
IODINE VALUE	100.0 – 115.0	111
ACID VALUE	<1.0	-

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	16.0 – 26.0	18.7
C18:0	STEARIC	2.0 – 5.0	4.3
C18:1	OLEIC	22.0 – 36.0	33.6
C18:2	LINOLEIC	32.0 – 42.0	36.1
C18:3	ALPHA LINOLENIC	3.0 – 9.0	5.6
C20:0	ARACHIDIC	<0.5	0.4