



## CERTIFICATE OF ANALYSIS

**PRODUCT NAME: CALENDULA, INFUSED IN SUNFLOWER OIL**

**LOT NUMBER: Lot0001906**

PRODUCT INCI: CALENDULA OFFICINALIS FLOWER & HELIANTHUS ANNUUS SEED OIL

PRODUCT CODE: K0084

CAS NUMBER: 84776-23-8 & 8001-21-6

EINECS NUMBER: 283-949-5 & 232-273-9

MANUFACTURING METHOD: NATURAL HERB INFUSION IN SUNFLOWER OIL.

MANUFACTURING DATE: 26/11/2018

BEST BEFORE DATE: 26/05/2020

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	OILY LIQUID	-
ODOUR	CHARACTERISTIC	-
COLOUR	CLEAR – YELLOW - GOLDEN	-
REFRACTIVE INDEX @ 20°C	1.460 – 1.510	1.485
SPECIFIC GRAVITY @ 20°C	0.905 – 0.923	0.919
PEROXIDE VALUE (MEQ O <sub>2</sub> / KG)	<20.0	5.0
FREE FATTY ACID	<2.0	0.07
IODINE VALUE	112.0 – 145.0	128.0
ACID VALUE	<4.0	0.3

FATTY ACID PROFILE		RANGE %	RESULTS
<b>C-CHAIN</b>	<b>ACID NAME</b>		
C16:0	PALMITIC	5.0 – 7.6	6.3
C18:0	STEARIC	2.7 – 6.5	4.9
C18:1	OLEIC	14.0 – 40.0	34.4
C18:2	LINOLEIC	50.0 – 74.0	59.5
C18:3	ALPHA LINOLENIC	<0.3	0.14
C20:0	ICOSANOIC	<1.0	0.5
C20:1	ICOSENOIC	<1.0	0.5
C22:0	DOCOSANOIC	<1.0	0.5

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