

## CERTIFICATE OF ANALYSIS

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

**LOT NUMBER: Lot0003478**

PRODUCT INCI: DUNALIELLA SALINA EXTRACT & HELIANTHUS ANNUS SEED OIL

PRODUCT CODE: K0103

CAS NUMBER: 801-21-6 & 7235-40-7

EINECS NUMBER: 232-273-9 & 230636-6

MANUFACTURING METHOD: NATURAL HERB INFUSION IN SUNFLOWER OIL.

MANUFACTURING DATE: 25/06/2019

BEST BEFORE DATE: 25/06/2021

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	OILY LIQUID	-
ODOUR	CHARACTERISTIC	-
COLOUR	RED – ORANGE	-
REFRACTIVE INDEX @ 20°C	1.460 – 1.485	1.477
SPECIFIC GRAVITY @ 20°C	0.905 – 0.932	0.912
PEROXIDE VALUE (MEQ O <sub>2</sub> / KG)	<20.0	3.5

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	4.0 – 8.0	6.7
<b>C16:1</b>	PALMITOLEIC	<1.0	0.6
C18:0	STEARIC	2.0 – 6.5	3.2
C18:1	OLEIC	14.0 – 40.0	24.8
C18:2	LINOLEIC	50.0 – 80.0	56.8
C18:3	ALPHA LINOLENIC	<2.0	1.1
C20:0	ICOSANOIC	<1.0	0.15
C20:1	ICOSENOIC	<1.0	-
C22:0	BEHENIC	<1.0	-

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