



## CERTIFICATE OF ANALYSIS

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

**LOT NUMBER: Lot0000803**

PRODUCT INCI: CITRUS AURANTHIUM DULCIS SEED

PRODUCT CODE: K0327

CAS NUMBER: 8028-48-6

EINECS NUMBER: 232-433-8

MANUFACTURING METHOD: EXPPELLER PRESSED & REFINED

MANUFACTURING DATE: 10/07/2018

BEST BEFORE DATE: 10/01/2020

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	OILY LIQUID	-
COLOUR	CLEAR – LIGHT YELLOW	-
COLOUR (LOVIBOND)	<35Y, 2.5R	23, 1.5
ODOUR	ODOURLESS	-
SPECIFIC GRAVITY @ 20°C	0.910 – 0.920	0.915
RELATIVE DENSITY @ 20°C	0.910 – 0.925	0.915
REFRACTIVE INDEX @ 20°C	1.466 – 1.480	1.467
SAPONIFICATION VALUE	190.0 – 200.0	190
FREE FATTY ACID (% AS OLEIC)	<0.5	0.1
PEROXIDE VALUE	<15.0	1.2
IODINE VALUE	105.0 – 115.0	113

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	14.0 – 22.0	17.1
C18:0	STEARIC	2.0 – 4.0	4.0
C18:1	OLEIC	25.0 – 35.0	33.8
C18:2	LINOLEIC	35.0 – 45.0	40
C18:3	ALPHA LINOLENIC	3.0 – 7.0	3.4
C20:0	ICOSANOIC	<0.5	0.5

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