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## CERTIFICATE OF ANALYSIS

**PRODUCT NAME: BLACKCURRANT SEED OIL, 15% GLA REFINED**

**LOT NUMBER: LOT0006283**

PRODUCT INCI: RIBES NIGRUM

PRODUCT CODE: K0070

CAS NUMBER: 97676-19-2

EINECS NUMBER: N/A

MANUFACTURING METHOD: EXPPELLER PRESSED, REFINED

MANUFACTURING DATE: 14/04/2020

BEST BEFORE END DATE: 14/04/2022

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	OILY LIQUID	-
ODOUR	ODOURLESS	-
COLOUR	CLEAR – LIGHT YELLOW	-
COLOUR GARDNER	< 8.0	7.9
SPECIFIC GRAVITY @ 20°C	0.920 – 0.935	0.926
REFRACTIVE INDEX @ 20°C (NR)	1.478 – 1.484	1.4798
FREE FATTY ACID (% AS OLEIC)	< 0.5	-
PEROXIDE VALUE (MEQ O <sub>2</sub> / KG)	<15.0	1.6
IODINE VALUE	10.0 – 22.0	-
ACID VALUE	<1.0	0.27
SAPONIFICATION VALUE (MG KOH/GR)	185.0 – 195.0	189.0
UNSAAPONIFIABLE MATTER	< 2.5	1.15

FATTY ACID PROFILE		RANGE %	RESULTS
C-CHAIN	ACID NAME		
C16:0	PALMITIC	5.0 – 8.5	6.2
C18:0	STEARIC	1.0 – 3.0	1.4
C18:1	OLEIC	8.0 – 16.0	10.3
C18:2	LINOLEIC	43.0 – 50.0	48.3
C18:3	ALPHA-LINOLENIC	12.0 – 16.0	14.7
C18:3	GAMMA-LINOLENIC	>15	15.4
C18:4	STEARIDONIC	>2.0	2.6

FREE FROM TESTS	
APRICOT & PEACH KERNEL OIL	PASS
SESAME SEED OIL	PASS
COTTONSEED OIL	PASS
ARACHIS OIL	PASS
MINERAL OIL	PASS
FOREIGN OILS	PASS