

## CERTIFICATE OF ANALYSIS

**PRODUCT NAME: BLACK CUMIN SEED OIL, COLD PRESSED**

**LOT NUMBER: LOT0002503**

PRODUCT INCI: NIGELLA SATIVA SEED OIL

PRODUCT CODE: K0064

CAS NUMBER: 90064-32-7

EINECS NUMBER: 290-094-1

MANUFACTURING METHOD: COLD PRESSED

MANUFACTURING DATE: 22/02/2019

BEST BEFORE DATE: 22/08/2020

ANALYTICAL DETAILS	RANGE %	RESULTS
APPEARANCE	OILY LIQUID	-
ODOUR	SPICY CHARACTERISTIC	-
COLOUR	YELLOW - ORANGE	-
FREE FATTY ACID	<12.5	6.25
PEROXIDE VALUE (MEQ O <sub>2</sub> / KG)	<20.0	12.4
SPECIFIC GRAVITY @ 20°C	0.911 – 0.935	0.923
ACID VALUE	<25.0	2.9
SAPONIFICATION VALUE	180.0 – 210.0	-

FATTY ACID PROFILE		RANGE %	
C-CHAIN	ACID NAME		
C14:0	MYRISTIC	<1.0	-
C16:0	PALMITIC	8.0 – 15.0	12.4
C16:1	PALMITOLEIC	<1.0	-
C18:0	STEARIC	<5.0	2.9
C18:1	OLEIC	18.0 – 30.0	23.7
C18:2	LINOLEIC	50.0 – 65.0	56.7
C18:3	LINOLENIC	<4.0	0.34
C20:0	ARACHIDIC	<1.0	-
C20:1	EICOSENOIC	<1.0	-
C20:2	EICOSADIENOIC	<4.0	-
C22:1	ERUCIC	<1.5	-