

Certificate of Analysis – Organic Black Cumin Seed Oil

GENERAL INFORMATION	
Manufacturer name	Pure Essential Oils & Herbs Co.
Product name	Organic Black Cumin Seed Oil Egypt
INCI NAME	Nigella sativa seed oil
Product Code	PCP00200
Batch NO	PCP02654
Description	Oil is extracted by cold pressing from the seeds of Nigella sativa
Production	Cold pressing and filtration
Production Date	July 2020
Best before Date	July 2022
Proportions [%w/w]	100% pure and natural
Applications	Cosmetic , pharmaceutical industries and as a dietary supplement
CAS #	90064-32-7
EINECS #	290-094-1
Country of Origin	Egypt

ORGANOLEPTIC PARAMETERS		
Appearance	Liquid	
Colour	Clear green/brown	
Odour	spicy, pungent characteristic	
Flavour	Warm, spicy, characteristic black cumin seed	
CHEMICAL / PHYSICAL PARAMETERS		
Relative density @ 20°C	0.915 – 0.925	Typically (0.918)
Refractive index @ 20°C	1.4720 – 1.4780	Typically (1.475)
Flash point	> 200°C	Conforms
Iodine value	120 mg/g	Conforms
Acid value	< 26 mgKOH/g	Conforms
Thymoquinone (TQ)	Not less than 2.5 %	Conforms

FATTY ACID PROFILE		%
Palmitic Acid	C16:0	9.36
Palmitoleic Acid	C16:1	0.33
Stearic Acid	C18:0	3.32
Oleic Acid	C18:1 (n-9)	25.71
Linoleic Acid	C18:2 (n-6)	61.84
Alpha-Linolenic Acid	C18:3 (n-3)	0.58
Eicosadienoic Acid	C20:2 (n-6)	2.80

PACKAGING	
Bottles	30 ml, 60 ml, 120 ml
Cans	5 Kg, 10 Kg, 20Kg, 50kg And 100 kg
Drums	50 , 180 and 200 kg
STORAGE	Store in a cool and dry place in unopened original packaging, or in a stainless steel tank at max. 15°C, preferably under nitrogen blanket

HEAVY METAL	SPECIFICATION	RESULT%
Lead (Pb)	N/A	Not detected
Cadmium (Cd)	N/A	Not detected
Copper (Cu)	N/A	Not detected
Arsenic (As)	N/A	Not detected
Mercury (Hg)	N/A	Not detected

MICROBIAL ANALYSIS	SPECIFICATION	RESULTS
Aerobic Mesophilic Bacterial count	< 1000 CFU/g	Conforms
Yeast and Mould	< 100 CFU/g	Conforms

GMO free Statement:

Product is GMO free

Irradiation Statement:

To produce the product, no irradiated materials were used; product itself was also not irradiated.

Animal protection and Vegan Statement:

Product is purely vegetable origin and comes during its manufacture, storage and its transport with no animal materials in contact. Neither our product nor its ingredients have been tested on animals. Likewise, no animal testing will be undertaken at present and in future.

Sterility:

Product is free of Candida albicans, Staphylococcus aureus and Pseudomonas aeruginosa bacteria.

Allergen free:

Product contains no detectable amounts of proteins and consequently has no risk of allergens as defined by the food law. If allergens should be present, we will expressly point out.

Disclaimer:

The information contained in this specification is based on data considered to be accurate and reliable as at the date of the specification to the best of the supplier's knowledge and belief. It is user's obligation to determine the safe use of the product for its own applications or suitability for use since the conditions of use, handling, storage and disposal are beyond the supplier's control. The user should therefore take all necessary precautions to ensure the safe and suitable use of the product described in the specification

Approved by:	QA	Page 2 of 2	Version:	20 Jan 2020
--------------	----	-------------	----------	-------------