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TECHNICAL DATA SHEET (TDS)

Product Name	BLACK CUMIN SEED (KALONJI) OIL
Botanical Name	Nigella sativa
Product Code	PCO4037
CAS #	90064-32-7
EINECS #	290-094-1
INCI Name	Nigella sativa (Black Cumin) Seed Oil

Part Used	Seeds
Extraction Method	Cold Pressed
Quality	100% Pure and Natural

<u>PROPERTIES</u>	<u>SPECIFICATIONS</u>
Appearance	Pale yellow to amber colored liquid
Odour	Characteristic mild peppery, bittery aroma
Refractive Index	1.460 - 1.480 @ 20°C
Specific Gravity (g/mL)	0.910 - 0.935 @ 25°C
Saponification Value (mgKOH/g)	180 - 210
Peroxide Value (meq O₂/kg)	Less than 5.0
Iodine Value (g I₂/100g)	110 - 130
Free Fatty Acids (% oleic)	Less than 10.0
Acid Value (mgKOH/g)	Less than 20.0
Solubility	Soluble in Cosmetic esters and fixed oils; Insoluble in water

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FATTY ACID COMPOSITION:

<u>FATTY ACID</u>	<u>C-CHAIN</u>	<u>SPECIFICATIONS (%)</u>
Palmitic Acid	C16:0	10.00 – 15.00
Palmitoleic Acid	C16:1	0.10 – 0.50
Stearic Acid	C18:0	2.00 – 4.00
Oleic Acid	C18:1 (n-9)	17.00 – 26.00
Linoleic Acid	C18:2 (n-6)	52.00 – 67.00
Alpha-Linolenic Acid	C18:3 (n-3)	Maximum 1.00
Eicosadienoic Acid	C20:2 (n-6)	Maximum 3.00

<u>MICROBIAL ANALYSIS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>
Aerobic Mesophilic Bacterial Count	< 100 CFU/g	ISO 21149
Yeast and Mould	< 10 CFU/g	ISO 16212
Candida albicans	ABSENT / 1g	ISO 18416
Escherichia coli	ABSENT / 1g	ISO 21150
Pseudomonas aeruginosa	ABSENT / 1g	ISO 22717
Staphylococcus aureus	ABSENT / 1g	ISO 22718

<u>HEAVY METAL TESTS</u>	<u>SPECIFICATIONS</u>	<u>STANDARDS</u>
Lead: Pb (mg/kg or ppm)	< 10 ppm	na
Arsenic: As (mg/kg or ppm)	< 2 ppm	na
Mercury: Hg (mg/kg or ppm)	< 1 ppm	na

STABILITY AND STORAGE:

Keep in tightly closed container in a cool and dry place, protected from sunlight. When stored for more than 24 months, quality should be checked before use.

As it is electronically generated document, hence no signature required.

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