

# CERTIFICATE OF ANALYSIS



Product	Lot No	Packing
<b>Organic Black Cumin Seed Oil</b> <i>Nigella Sativa</i> (Black Cumin) Seed Oil	<b>OBCSO4546</b>	<b>250 ml / 8.4 fl.oz</b>

Parameters	Specifications	Results
Appearance / Color	Clear, Dark Amber, Oily Liquid	Conforms
Taste / Odor	Characteristic, aromatic, no objectionable smell or odour	Conforms
Moisture	Max % 0,5	0,5 %
Acidity (as oleic acid)	Max 11,0 %	5,9 %
Specific Gravity (H <sub>2</sub> O = 1) g/ml	0.916 to 0.924	0,919
Refractive Index at 20°C	1.470 - 1.474	1,473
Iodine value	115-130	125
Saponification Value	185-211	201
Unsaponifiable matter	Max. 7,0 %	4,2 %

Saturated Fatty Acids	10,0-20,0	Conforms
Mono Unsaturated Fatty Acids	15,0-30,0	Conforms
Poly Unsaturated Fatty Acids	45,0-60,0	Conforms
Fatty Acid Methyl Esters Caproic Acid (C6:0)	Max 0,5	Conforms
Fatty Acid Methyl Esters Myristic Acid (C14:0)	Max 0,5	Conforms
Fatty Acid Methyl Esters Palmitic acid (C16:0)	5,0 – 15,0	Conforms
Fatty Acid Methyl Esters Palmitoleic Acid(C16:1)	Max 0,5	Conforms
Fatty acid Methyl Esters Heptadecanoic Acid (C17:0)	Max 0,1	Conforms
Fatty Acid Methyl Esters Cis-10-Heptadecenoic Acid (C17:1)	Max 0,1	Conforms
Fatty Acid Methyl Esters Stearic acid (C18:0)	Max. 4,0	Conforms
Fatty acid Methyl Esters Oleic Acid (C18:1n9c)	23,0-45,0	Conforms
Fatty Acid Methyl Ester Linoleic Acid (C18:2n6c)	45,0-60,0	Conforms
Fatty Acid Methyl Esters Linolenic Acid (C18:3n3)	Max. 1	Conforms
Fatty Acid Methyl Esters Arachidic Acid (C20:0)	Max. 1,5	Conforms
Fatty acid Methyl Esters Cis-11-Eicosenoic Acid (C20:1n9)	Max 0,5	Conforms
Fatty Acid Methyl Esters Behenic Acid (C22:0)	Max 0,1	Conforms

Parameters	Specifications	Results
Sulphure	None	Conforms
Pesticides	< RL (Reporting Limit) According to EC Regulation No 834/2007 and 889/2008 and according to USDA organic regulation 7 CFR Part 205	Conforms
Aflatoxin	B1: Max 2 ppb, B1+B2+G1+G2 : Max 4 ppb	B1: < 2 ppb, B1+B2+G1+G2:<4 ppb

*\*This product complies with Commission Regulation (EU) 2023/915 of 25 April 2023 on maximum levels for certain contaminants in food and repealing Regulation (EC) No 1881/2006.*

*\*This product complies with Commission Regulation (EU) 2018/73 of 16 January 2018 amending Annexes II and III to Regulation (EC) No 396/2005 of the European Parliament and of the Council as regards maximum residue levels for mercury compounds in or on certain products.*

Total Viable Count	Max 100 cfu/g	Conforms
Yeast	Max 10 cfu / g	Conforms
Mould	Max 10 cfu / g	Conforms

Quality Control Manager