



BLACK CUMIN SEED OIL SPECIFICATION

Black Cumin Seed Oil (edible oils , cold pressed)

Parameters	Specification Ranges
Transparency	Transparent liquid without sediment
Smell and taste	Smell and taste characteristic of Black cumin seed oil, free from foreign smell and taste bitter
Color	Green, various concentrations
Moisture and volatile matter	$\leq 0,15\%$
Acid number	$\leq 2,3$ mg KOH / 1g
Peroxide number,	$\leq 10,0$ $\frac{1}{2}$ O mg / kg
Mass fraction of phosphorus-containing substances,	$\leq 0,3\%$
- In terms of stearoleletsytyn	
Mass fraction of fat-free lean impurities	$\leq 0,01\%$
The degree of transparency,	≤ 40 FEM
Flash point	$\leq 225^{\circ}$
-Aflatoksyn B1	$\leq 0,005$ mg / kg
- zearalenone,	$\leq 1,0$ mg / kg
Microbiology	Value
The number of aerobic MO, flat co / d	not allowed
- Koliformy / g,	not allowed



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- MO pathogens, including Salmonella / 25g not allowed
- Koahulopozityvni Staphylococcus / g not allowed
- Mold fungi, flat co / d not allowed

Mass fraction of heavy metals and pesticides:

- Lead, mg / kg $\leq 0,1$
- Cadmium, mg / kg $\leq 0,05$
- Arsenic, mg / kg $\leq 0,1$
- Mercury, mg / kg $\leq 0,03$
- Copper, mg / kg $\leq 0,5$
- Zinc, mg / kg $\leq 5,0$
- Iron mg / kg $\leq 5,0$
- HHTSK gamma isomer mg / kg $\leq 0,05$
- heptachlor mg / kg not allowed
- DDT and its metabolites mg / kg $\leq 0,1$

The content of cesium SS137, Bq / kg Not more than 100 Bq / kg

The content of strontium Sr90, Bq / kg Not more than 30 Bq / kg

FATTY ACIDE PROFILE (%)

C16:0 Palmitic	10.0 – 13.0
C18:0 Stearic	2.0 – 3.0
C18:1 Oleic	17.0 – 28.0
C18:2 Linoleic	40.0 – 60.0
C20:2 Eicosapentaenoic	≤ 1.0

Storage:

Oils, packed in consumer packaging, store away from direct sunlight. At a temperature from 8°C - 20° C.

Shelf Life:

Shelf life in a sealed original packaging is 18 months from the date shown on the package. Recommended shelf life after opening the package, when stored in a place without direct sunlight - not more than 4 months within the total shelf life.



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