

TECHNICAL DATA SHEET

Oilgin™ DHA Algae Winterized Oil

55% T

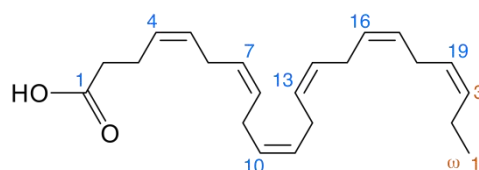
Chemical Properties

CAS No: 6217-54-5

INCI name: Docosahexaenoic Acid

Chemical Formula: C₂₂H₃₂O₂

Molecular Weight: 328.488



Description

Oilgin™ DHA Algae Oil is commercially manufactured from microalgae *Schizochytrium*, It is a vegetable-source DHA. Natural vitamin E as antioxidants, is added to provide stability. It is suitable for vegetarians and vegans due to its sustainable microalgae sourcing. The microalgae is cultivated in a strictly controlled environment. It is extracted using an entirely natural enzymatic process with no solvents, then subjected to a high-tech purification and concentration process. Winterization is a method of crystallization separation. It is a process of cooling the oil and crystallizing the high freezing point glycerol esters to separate the oil from the solid fat.

Solubility

It is not soluble in water, but soluble in Ethanol, acetone and other organic solvents.

Specification

Item	Specification	Test Method
Appearance	Light yellow or orange yellow clear oily liquid.	GB26400-2011
Taste & Odor	Characteristic, no other peculiar taste and smell.	GB26400-2011
Assay of DHA	Min 55.0%	GC using peak area ratio
Peroxide Index	Max 3.0meq/Kg	GB/T 5009.37
Unsaponifiable	Max 4.0%	GB/T 5535.1
Acid value	Max 0.5mg(KOH)/g	GB/T 5009.37
Moisture	Max 0.1%(W/W)	GB 5009.3
Residual Solvents	Max 1.0 mg/Kg	GB/T 5009.37
Insoluble impurities	Max 0.2%(W/W)	GB/T 15688
Trans fatty acids	Max 1.0%(W/W)	GB 5413.36
Anisidine value	Max 8.0	GB 24304
Aflatoxin B1	Max 5.0(µg/Kg)	GB/T 5009.22
Lead	Max 0.1 mg/Kg	GB 5009.12
Arsenic	Max 0.1 mg/Kg	GB 5009.11
Mercury	Max 0.04 mg/Kg	GB 5009.17

Cadmium	Max 0.01µg/L	GB 5009.15
Copper	Max 0.3mg/Kg	In-house
Iron	Max 0.01 mg/L	In-house
Melamine	Negative	In-house
Bacteria counts	Max 1000cfu/g	GB 4789.2
Mold	Max 25cfu/g	GB 4789.15
Coliforms	Max 30MPN/100g	GB 4789.3
<i>E. Coli</i>	Negative	GB 4789.38
<i>Enterobacter sakazakii</i>	Negative	GB 4789.40
The Pathogenic Bacteria Count	Negative	GB 29921

Ingredients

DHA Algae Winterized Oil and Natural vitamin E (as antioxidants).(T is short for vitamin E)

Labeling

In the United States and the European Union: Oligin™ DHA Algae Winterized Oil 55%

Applications

- 1.DHA can help support a healthy pregnancy.
- 2.DHA is important for brain and eye development for infant and ongoing brain and eye development for children.
- 3.DHA supports brain, eye & heart health for adult.

Safety

This product is safe for the intended use. Avoid ingestion, inhalation of dust or direct contact by applying suitable protective measures and personal hygiene. See Material Safety Data Sheet for full safety information.

Handling recommendations

Keep locked up.Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporatethe residue under a fume hood. If you feel unwell, seekmedical attention and show the label when possible. Avoid contact with skin and eyes. Keep away from incompatibles such asoxidizing agents, reducing agents, alkalis.

The product should be thawed completely and well mixed before use, avoid oil temperatures exceeding 60°C / 140°F during the thawing process for best sensory performance. When possible, use the entire contents of the container at one time. Unused portions should be blanketed with nitrogen and stored frozen.

Cleaning recommendations

Use an appropriate caustic based detergent and hot water for wet cleaning.

Packaging, Storage & Shelf Life

- Package: 10kg/aluminum tin, 10kg /carton, stuffed with nitrogen;or according to customers' requirements.
- Storage: Store in a dry place, avoid damp condition and direct sunlight, and do not co-stored with toxic or hazardous materials.
- Shelf life: The shelf life of the product is 24 months in frozen (minus 18 °C), 12 months in cool condition (about 5°C), and 1 month in room temperature(about 25°C).