



**Branded and Distributed by**



**SOURCE-OMEGA, LLC**  
**11312 US 15-501 North, Suite 107-122**  
**Chapel Hill, N.C. 27517, USA**

## **SPECIFICATION ON DHA ALGAL OIL**

### **Product Description:**

SOURCE OIL™ is Self-Affirmed NOP Compliant [USDA], and Self-Affirmed GRAS [FDA], substantiated as a kind of pure natural oil from a wild-type strain of Chromista micro-algae (*Schizochytrium Sp.*), produced by adopting the first class fermentation method and using a patent pending physical-mechanical water extraction process for purification. No organic solvent and no enzymes are ever used.

In partnership with our manufacturer, Dr Doughman and Source-Omega qualify to be nationally recognized top experts in omega-3 biochemistry. We contract production of the DHA oil for North America.

### **Specifications:**

DHA>50% [SOURCE OIL™ Premium with tocopherol antioxidant.]

DHA>50% [RAW SOURCE OIL™ unrefined unmodified one step extract.]

### **Physical characteristics:**

Appearance: Clear oily liquid with yellow color. [comparable to current standards]

Odor: Special DHA smelling. [comparable to current standards]

### **Scope of Application:**

- 1) Infant formula milk powder , formula rice powder and other infant formula foods;
- 2) Functional liquid milk;
- 3) Edible oil and other functional health care blending oils;
- 4) Biscuit, bread, instant noodles, ice cream and other functional health care foods;

- 5) Lactobacillus beverage, fruit and vegetable beverage and other nutritional and health beverage;
- 6) DHA pharmaceutical health care products for pregnant women, children, the middle-aged and the aged;
- 7) Supplements
- 8) Not limited to this list as ingredient.

#### **Function:**

Micro-algae DHA is a long chain polyunsaturated Omega-3 fatty acid, a basic component of the liver, heart, brain and eyes, and the product supports the health of the liver, heart, brain and eyes, also the cardiovascular system and the whole life. Abundant scientific evidence indicates that people of all ages from baby to adult are benefited from intake of sufficient DHA levels in the daily diet.

#### **Physical and Chemical Index:**

| Item                     | content      |
|--------------------------|--------------|
| DHA, %FA                 | ≥50          |
| Residual solvents, %     | Not Detected |
| moisture, %              | 0%           |
| Caffeine                 | Not Detected |
| Aflatoxin,%              | Not Detected |
| Acid Value,(mg/g)        | <0.5         |
| Peroxide value ,Meq/Kg   | <2           |
| Trans fatty acid         | <0.2         |
| Total plate count, cfu/g | <10          |
| Salmonella               | Not Detected |
| Lead                     | <0.02ppm     |
| Total Arsenic            | <0.02ppm     |
| Total Mercury            | <0.02ppm     |

#### **Operation Direction:**

##### **Premium**

The oil does not require cold storage and is stable at 22° C with improved and/or unchanged stability over time of minimum 24 months from manufacture. Premium oil is clear oil throughout its life.

##### **Raw**

If storage temperatures are under 8° C, only the raw product may turn into a pre-solidified oil state since it is a natural plant-based source and since physical extraction is a natural process. This solid or semi-solid state is easily reversible with warming and won't have any undesirable impact on the product. But before using, melting any frozen stock may be needed warming to 45° C for 10 minutes. Our suggestion is the following, put DHA oil container in a plastic bag and directly into warm water with temperature around 45° C, also periodically mixing the container over 10 min or until desired melting from cold storage is complete.

**Shelf Life:**

2 full years in normal room temperature condition with improved stability over time; thus, an additional 1 year time may be added with retesting. Peroxide Values will show <1.0 Meq/Kg after two years. But once opened, it is suggested to be then used up ASAP or within 3 months after opening the seal. Store at Room Temperature.

**Storage:**

In a dry place with temperature under 30° C, keep out of the sun. Don't co-store with toxic or hazardous material.

**Packing:**

Seal up DHA Algal oil in metal bottle with nitrogen inside.