

## Ingredients

Lactose (milk source), Docosahexaenoic Acid Oil (which contains Sunflower seed oil, Vitamine E (dl- $\alpha$ -Tocopherol), Lecithin (soybean source) and Ascorbyl palmitate), Corn syrup solids, Sodium Ascorbate, Sodium Caseinate (milk source), and sodium Citrate.

## Physical Attributes

|                |   |
|----------------|---|
| Taste and odor | This product has docosahexaenoic acid characteristic odor and taste.No foreign taste、no foreign odor, be no putrid and mildew phenomenon. |
| Appearance     | The product is homogeneous free flowing powder without conglutination, caking and deliquescence.  |
| Color          | It is homogeneous white or light yellow powder.   |
| Solubility     | It can be evenly dispersed in water at 25°C-45°C.   |
| Impurities     | There should be no visible foreign material.  |

| Chemical Analysis            | Unit     | Specification |
|------------------------------|----------|---------------|
| Docosahexaenoic Acid Content | Tag Wt.% | $\geq 10.0$   |
| Surface oil                  | %        | $\leq 2.0$    |
| Peroxide value               | Meq/kg   | $\leq 5.0$    |
| Moisture                     | %        | $\leq 5.0$    |
| Ash                          | %        | $\leq 5.0$    |

| Elemental Analysis | Unit  | Specification |
|--------------------|-------|---------------|
| Arsenic            | mg/kg | $\leq 0.1$    |
| Lead               | mg/kg | $\leq 0.1$    |
| Mercury            | mg/kg | $\leq 0.05$   |

| Microbiological Analysis  | Unit  | Typical Results |
|---------------------------|-------|-----------------|
| Total colony count        | cfu/g | $\leq 1000$     |
| Coliform                  | cfu/g | $< 10$          |
| Mould                     | cfu/g | $\leq 25$       |
| Yeast                     | cfu/g | $\leq 25$       |
| Enterobacter Sakazakii    | /333g | Negative        |
| Staphylococcus Aureus     | /25g  | Negative        |
| Shigella                  | /25g  | Negative        |
| Salmonella                | /25g  | Negative        |
| Streptococcus Hemolyticus | /25g  | Negative        |

## Storage and Stability

|           |   |
|-----------|---|
| Storage   | The product should be stored in a tightly closed original packaging under a cool and dry condition. It should be used as soon as possible after being opened. |
| Stability | The shelf life of the product is 24 months at room temperature.   |

## Packaging

The product is packed in an aluminum foil bag of 5kg infused with nitrogen. Bags are packed in carton boxes.

**CABIO** 嘉必优



## Algal DHA

Docosahexaenoic Acid

**CABIO**



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# CABIO Algal DHA Oil

— Golden quality, various application

CABIO algal DHA oil is cultured, extracted and refined by fermentation of unicellular algae in sealed tanks.

CABIO algal DHA oil is a kind of healthy “vegetarian” oil, suitable for different groups of consumers beyond restriction of consumption culture, making it the perfect solution in replacement of DHA products extracted from fish oil.

Among the products, oil and microcapsule powder are mainly applied in infant formula food, liquid milk and dietary supplements. Also, they can be added to blended cooking oil, confection and chocolate, milk beverage, baked food and meal products for certain health claims. Algal biomass powder is mainly used as an additional nutriment for animals. Interestingly, formula for special requirements such as whole milk, dairy -free, organic, sugarless and others are also available as powder additives.

### The product series include:

- Algal DHA oil 35-45%
- Algal DHA powder 7-11%
- Algal biomass powder 1-18%

### Product functions

#### Benefits for infants and pregnant women

- 1.Promotes brain development and improves cognitive ability.
- 2.Promotes physical development and ensures the health of the body.
- 3.Enhances the development of vision and reduces visual defects.
- 4.Protects premature babies and improves their health.
- 5.Improves brain development children and improves the childhood happiness index.
- 6.Supports immune system development and improves the health of the respiratory system.
- 7.Regulates emotion and eases postpartum depression.

#### Benefits for adults

- 1.Regulates the body's immunity and improves the body's anti-inflammatory properties.
- 2.Adjuvant treatment of cancer, and reduces the side effects caused by radiotherapy and chemotherapy.
3. Regulates lipid metabolism, glucose metabolism and promotes cardiovascular health.
4. Regulates emotions and improves sleep quality.
5. Maintains adult and cognitive performance by delaying the vision regression and mental decline of old people.

#### Benefits for animals

- 1.Increases the DHA content in meat products, egg products and dairy products through the absorption of DHA by the livestock.
- 2.Promotes the health of the livestock and reduces the mortality rate of embryos.
- 3.Improves visual acuity and learning ability of the pet.
- 4.Accelerates the injury recovery for sports animals.
- 5.Improves the quality of aquatic products and increases DHA content in aquatic products.

### General

Vegetable oil from algal organism (Schizochytrium sp.) with rich docosahexaenoic acid (DHA).

### Ingredients

Docosahexaenoic acid oil from Schizochytrium sp, Sunflower seed oil, Vitamin E (dl- $\alpha$ -Tocopherol), Ascorbyl palmitate.

### Physical Attributes

Appearance The product is a clear yellow liquid (at 40°C), homogeneous and free from foreign impurities.  
 Odor Docosahexaenoic acid characteristic odor, free from rancidity.  
 Color Lovibond Cell, 25.4mm, not more than: Y30 R5.

| Chemical Analysis     | Unit      | Specification |
|-----------------------|-----------|---------------|
| Docosahexaenoic acid  | Tag Wt. % | ≥35.0         |
| Unsaponifiable matter | %         | ≤4.0          |
| Moisture              | %         | ≤0.05         |
| Insoluble impurities  | %         | ≤0.2          |
| Residual solvent      | mg/kg     | ≤1.0          |
| Acid value            | mg KOH/g  | ≤1.0          |
| Peroxide value        | meq/kg    | ≤5.0          |
| Trans-fatty acid      | %         | ≤1.0          |
| Aflatoxin B1          | g/kg      | ≤5.0          |

| Elemental Analysis                   | Unit  | Specification |
|--------------------------------------|-------|---------------|
| Total arsenic (calculate by arsenic) | mg/kg | ≤0.1          |
| Lead                                 | mg/kg | ≤0.1          |
| Mercury                              | mg/kg | ≤0.1          |

| Other Fatty Acid Profile          | Unit  | Typical Results |
|-----------------------------------|-------|-----------------|
| Myristic acid (C14:0)             | Area% | 2.1-8.2         |
| Palmitic acid (C16:0)             | Area% | 10-23           |
| Stearic acid (C18:0)              | Area% | 0-2             |
| Oleic acid (C18:1 n-9)            | Area% | 0-20            |
| Linoleic acid (C18:2 n-6)         | Area% | 0-10            |
| Arachidonic acid (C20:4 n-6)      | Area% | 0-2.2           |
| Eicosapentaenoic acid (C20:5 n-3) | Area% | 0-2.8           |
| Docosapentenoic acid (C22:5 n-6)  | Area% | 13.3-23.5       |

### Storage and Stability

The product should be stored in a tightly closed original packaging under a cool and dry condition. It should be used as soon as possible after opened. The product can be stable for 24 months if it was stored at a room temperature in the original package.

### Packaging

The product is packed in a vacuumized aluminum foil bag of 5kg. Bags are packed in carton boxes.

## Algal DHA Oil (35%)

## Algal DHA Powder (10%)

### General

Free flowing powder containing Docosahexaenoic acid (DHA) oil from alga (Schizochytrium sp.)