

PRUDUCT BULLETIN

Number: YK-QA-GGS-DOSN2-50-01



The Specification of 50% Sn-2 DHA Algal Oil (Winterization)

LinYi YouKang Biology Co., Ltd

Version A1

Date: 10/10/2023

Product Description

The nutritional oil is a rich source of Sn-2 DHA, which is refined from crude oil derived from fermentation of the marine algae (Schizochytrium sp.), deep-sea single-celled algae. The crude oil is processed by physical extraction.

Claims and Trademarks

The logo is a trademark of the company.

Suggested Uses

Infant formula food, Maternity food, Functional food, Nutriment, Health food, Drinks, etc.

Ingredients

Sn-2 DHA Algal Oil, Vitamin E

Allergens

No allergen

Country of Origin

China

Nutrition Information (Typical value)

	Avg Quantity Per 100 g
Energy	3696 KJ
Protein	0
Carbohydrate	0
Fat	99.9 g
Sodium	0
Vitamin E	0.1 g

Fatty Acid Composition

Fatty acid	Specifications (%)
C12:0 (Lauric Acid)	0-1
C14:0 (Myristate Acid)	0-1
C16:0 (Palmitate Acid)	5-35
C18:0 (Stearate Acid)	0-5
C18:1 (Oleic Acid)	0-5
C18:2 (Linoleic Acid)	0-5
C20:4 (ARA)	0-3
C20:5 (EPA)	0-2
C22:5 (DPA)	0-25
C22:6 (DHA)	50-60
The DHA in the sn-2 position accounts for more than 50% of the total DHA	
Others	0-10

Storage and Distribution

Storage	Store in a cold ( $\leq -5^{\circ}\text{C}$ ) and dry place and segregation from
Requirements	hazardous and harmful materials.
Shelf Life	18 months at $\leq -5^{\circ}\text{C}$ , when opened, flush the headspace with $\text{N}_2$ before capped and use the content within 3 months.

Typical Organoleptic Analysis

Odor:	With peculiar odor of this product, no abnormal odor.
Flavor:	With peculiar flavor of this product, no abnormal flavor.

Typical Physical Analysis

Texture:	Clear and transparent oil like liquid above $0^{\circ}\text{C}$
Color:	Pale yellow to orange

The specification is our general specification, if you have special requirements, please negotiate with Youkang team.

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**Typical Chemical Analysis**

Item	Limit	Testing method
DHA Assay	≥50%	GB 5009.168
Sn-2 DHA Assay	≥50%(Of the total DHA)	Internal methods
Moisture and Volatiles	≤0.05%	GB 5009.236
Acid Value(KOH)	≤0.8mg/g	GB 5009.229
Peroxide Value	≤5.0meq/kg	GB 5009.227
Total Oxidation Value	≤25.0meq/kg	GB/T 24304
Trans Fatty Acids	≤0.8%	GB 5009.257
Insoluble Impurities	≤0.2%	GB/T 15688
Unsaponifiable Matter	≤4.0%	GB/T 5535.1
Anisidine Value	≤15.0	GB/T 24304
Lead	≤0.08 mg/kg	GB 5009.12
Total Arsenic	≤0.09mg/kg	GB 5009.11
Cadmium	≤0.1mg/kg	GB 5009.15
Total Mercury	≤0.04mg/kg	GB 5009.17
Residual Solvents	Not detected	GB 5009.262
Aflatoxin B1	≤5.0μg/kg	GB 5009.22
Total PCBS (PCB 28, 52, 101, 138, 153 and 180)	≤40μg/kg	GB 5009.190

**Typical Microbiological Analysis**

Aerobic plate count	≤1000CFU/g	GB 4789.2
Yeasts & Moulds	≤25CFU/g	GB 4789.15
Coliforms	≤30 MPN/100g	GB 4789.3
Escherichia coli	Not detected/g	GB 4789.38
Salmonella	Not detected/10 g	GB 4789.4
Staphylococcus aureus	Not detected/10 g	GB 4789.10
Bile-tolerant gram negative Bacteria	≤100CFU/g	CP 2020-1106
Shigella	Not detected/g	GB 4789.5
S.haemolyticus	Not detected/g	GB 4789.11
Vibrio parahaemolyticus	Not detected/g	GB 4789.7

**Certification license and Dietary Suitability**

Novel Food Certified	Yes
Gras Certified	Yes
ISO9001 Certified	Yes
FSSC22000 Certified	Yes
Halal Certified	Yes
Kosher Certified	Yes
Vegetarian Suitable	Yes

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