

Pet Food  
Supplements

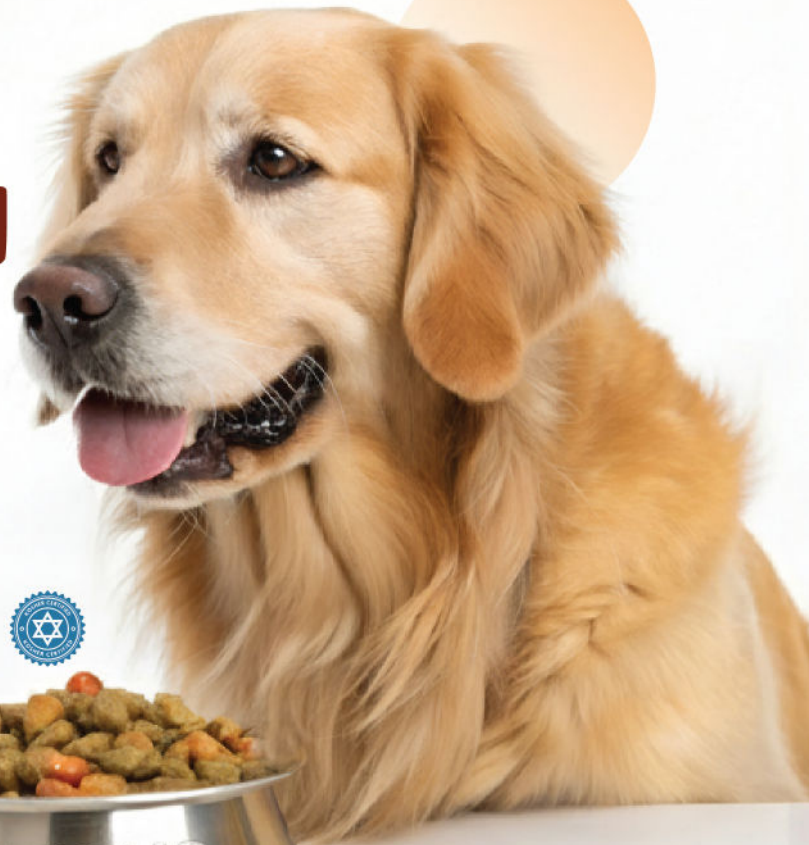
**CFS AlgaIR**

A Camlin Fine Sciences Company


Delivering clean  
nutrition through

# ALGAL DHA-BASED SOLUTIONS


Our Certifications &  
Compliance Standards



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## Why Biosus OMEGA is better than Fish Oil?

 <p><b>Fish Oil</b></p>	<p><b>Parameter</b></p>	 <p><b>Biosus OMEGA</b></p>
Fish	Origin	Algae
Non-vegetarian	Diet Pattern	Vegetarian
Comes with accumulated toxins such as Dioxin and Polychlorinated biphenyls	Toxin	Algae cultivated in fermenters
Present	Heavy Metals	Below detectible limit
Yes, due to heavy metals	Rejection	No, because below detectible limit
Prone to oxidation	Oxidation	Omega-3 oil entrapped, protected from oxidation in dried biomass
Highly unstable   Artificial stabilizers added	Stability	Stable for 24 months
Oxidized fish oil leads to strong fishy odour	Suitability	The characteristic algal odor attracts animals for improved feeding Best suited for all animal feed formulations
Oxidized fish oil has a negative impact on animal health	Health Impact	Stable Omega-3 oil enhances bioavailability and improves health
Possible contamination – not always known	Steroids, Pesticides & Antibiotics	Our algae is cultivated under stringent controlled conditions using food-grade glucose as a carbon source.
Not sustainable	Sustainability	Highly sustainable
No	Allergen-Free	Yes

## Product Detail

HSN for Biomass	<b>21022000</b>
HSN for Oil	<b>15156000</b>
Shelf Life	<b>12 months</b>
Current Capacity	<b>3 MT oil/day</b>



## Product Conformity

Category	Details
Conformity	FCC, JECFA, and EU specifications
CFR Compliance	21 CFR Part 573.615 – Marine microalgae (approved feed additive) and 21 CFR Part 117
Manufacturing Standard	Registered human food supplement facility licensed under FSSAI
Handling & Storage	Compliant with U.S. federal food safety and hygiene laws
BSE/TSE Status	No animal-derived ingredients used
ISO Certification	FSSC 22000:2018 (Version 6) certified facility
Dosage	Maximum inclusion: 7.5 kg per 1000 kg (16.5 lbs/ton) of complete adult animal feed

## Nutrient Composition

 <b>Algal DHA Biomass – 25%</b>	<b>Nutrient g/100 g</b>	 <b>Algal DHA Oil – TG50</b>
551	Energy (kcal)	891
40-50	Total Fat	99
10-15	Crude Protein	00
1-3	Fiber	00
31	Unsaturated Fatty Acids	58
13	Saturated Fatty Acids	40

## Composition of Fatty Acids

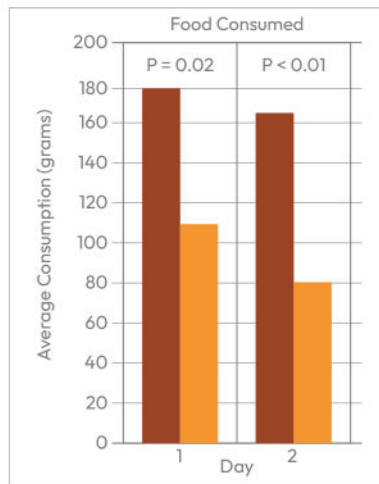
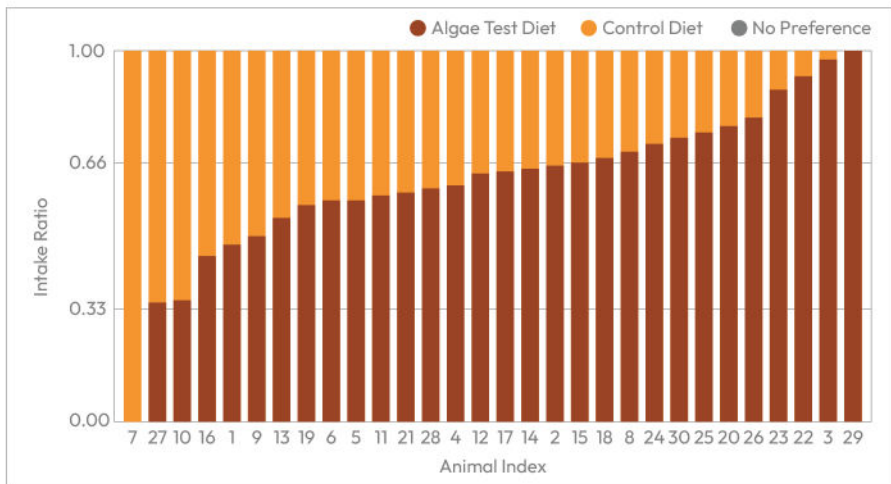
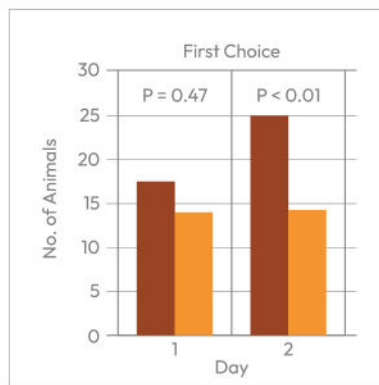
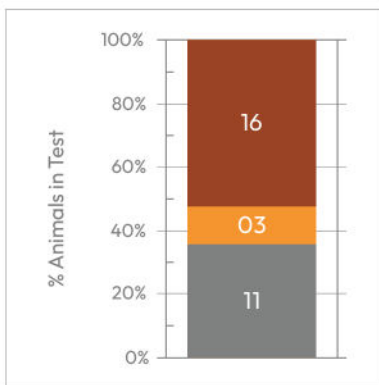
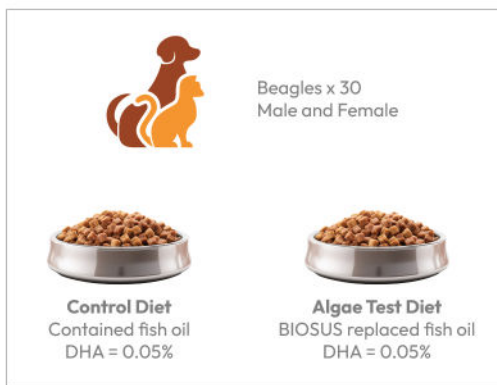
40-45	Total Fatty Acids	99
26-30	Polyunsaturated Fatty Acids	50-60
25-27	Docosahexaenoic Acid	50-53
1-2	Docosapentaenoic Acid	4-8
0.3-0.5	Eicosapentaenoic Acid	0.5-1
0-1	Linoleic Acid	1-2
0-1	Monounsaturated Fatty Acids	1-3
0-1	Oleic Acid	1-3
9-13	Saturated Fatty Acids	30-40
8-10	Palmitic Acid	30-35
1-2	Myristic Acid	2-4
0-1	Stearic Acid	0.7 – 1
0.5	Other Fatty Acids (grouped of less than 0.1% FA)	1.0
1.0	Antioxidants	1.0
BDL (DL:0.001)	Trans Fatty Acids	BDL (DL:0.001)

# Canine Palatability Trial

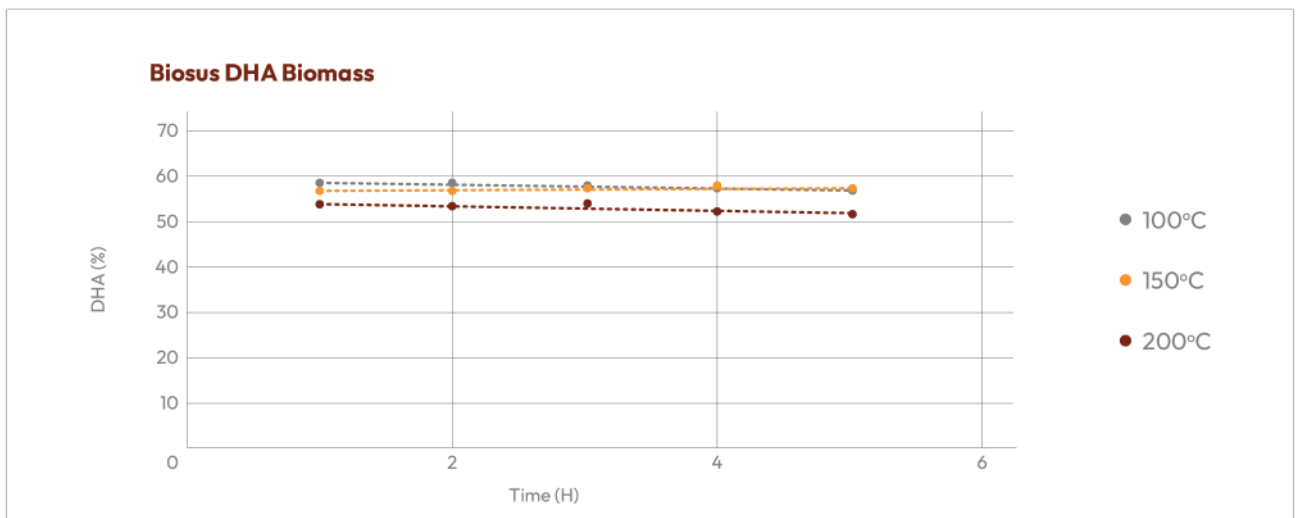
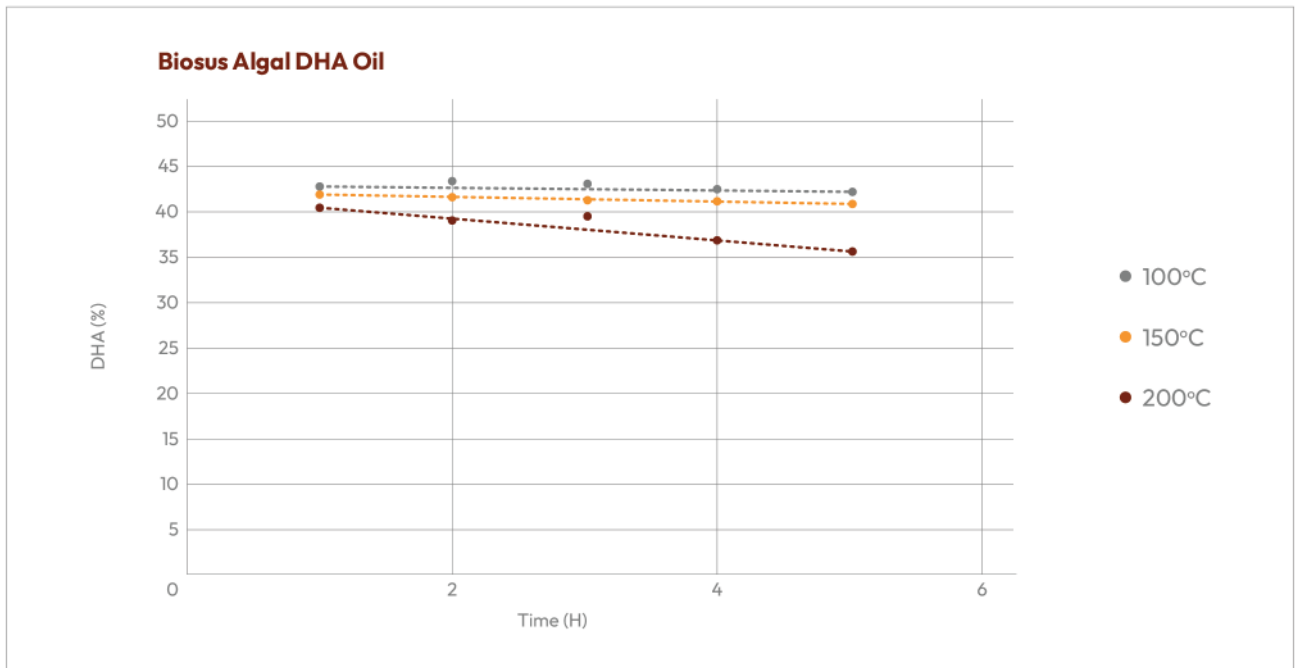
- Overall, dogs preferred the algae test diet over the control.
- Amount of food consumed by dogs during the 2-day test period
  - Algae test diet: 10,335 g
  - Control diet: 5,761 g



**BIOSUS can replace fish oil as a DHA source with a positive impact on palatability.**



# Thermal stability of Biosus DHA Oil and DHA Biomass



## Packing & Transport Standards (Biosus DHA Oil and Biomass)

Packaging Type	Capacity	Material	Product Type	Use Case
Aluminium Canister	10 kg	Food-grade Aluminium	DHA Oil	Small-scale supply / trials / premium packs
Composite Barrel	180 kg	Food-grade lined steel with inner plastic coated	DHA Oil	Bulk distribution
IBC Container	950 kg	Intermediate Bulk Container (food-grade)	DHA Oil	Large industrial supply
HDPE Drums	20 kg	HDPE with LDPE liner	DHA Biomass	DHA Biomass packaging

Mode of Transport	Condition	Application
By Sea	Reefer containers at +4°C	Standard bulk shipments
By Air	Minimum shipment < 100 kg (urgent need only)	Upon customer requests/ emergency supply

### Key Compliance Points

All packing meets food-grade safety standards.

Products transported under cold chain (+4°C) to maintain DHA stability.

Traceability ensured from packaging to delivery.





## Benefits



Enhances  
Animal Wellness



Disease  
Prevention



Behaviour  
Modulator



Reduces  
Inflammatory Responses



Sustainable  
Production



Flexible  
Integration

### Factory

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