

2024

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MARINE BIOLOGY COMPANY

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OPENING THE FUTURE OF THE OCEAN
WITH OUR TECHNOLOGY.

A MARINE BIO-SPECIALIZED COMPANY

Biotion provides innovative value to the domestic aquaculture industry, starting with early feed organisms.



A company specializing in producing quality seeds using functional biological feed



Item



Aspiration



Future

DEVELOPMENT OF TECHNOLOGY FOR SECURING FUTURE FOOD RESOURCES

Produce functional feed by mass culturing Omega-Moina using useful microorganism mass production technology

Main business

OMEGA-MOINA

The world's only mass culture technology



Useful microorganism

Rhodotorula, Rhodobacter PSB
Nannochloropsis, Spirulina



Functional feed

Marine fish essential fatty acids
(Omega-3 HUFA, DHA/ EPA)

Development of fishmeal alternative protein source
eco-friendly, high-efficiency fermented feed



Eco-friendly breeding system

RAS(Recirculating Aquaculture System)

DEVELOPMENT OF ALTERNATIVE FOOD BIOLOGICAL MOINA

Excellent nutrition and palatability · Explosive productivity

natural ecological food

- ✔ Utilization of Ecological Restoration Food Life
- ✔ traditional aquaculture production utilization

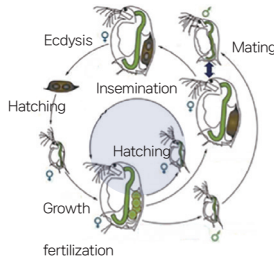
Using the poison of algal bloom as medicine

Realization of healthy ecological rivers

Restoring amphibians from extinction

A short production cycle

- ✔ 3 days from brood to first spawning
- ✔ Spawning once a day daily (maiden reproduction)



explosive productivity

- ✔ Twenty moinas spawns per episode
- ✔ 10x production every 3 days

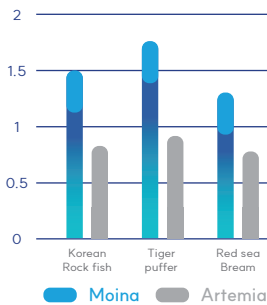


VERIFICATION OF MOINA EXCELLENCE STUDY

Verification of growth and survival rates of each fish species targeted by fisheries research institutes

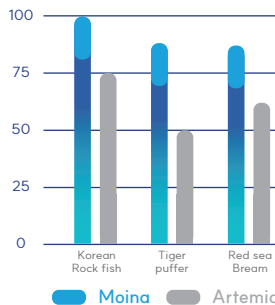
170%↑

Growth Rate



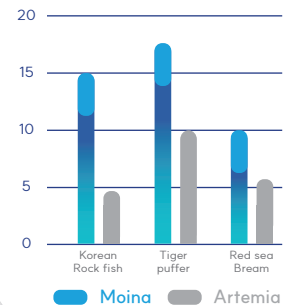
146%↑

Survival Rate



230%↑

Essential Nutrients



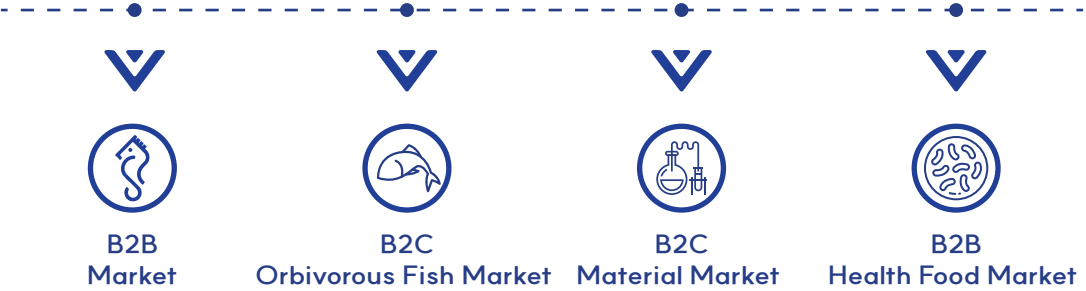
- ✔ Convenient feeding and excellent digestion and absorption rate improve the growth rate of fingerling.
- ✔ Contains beta-glucan, an immune-boosting substance, improving the survival rate of fingerling.
- ✔ Biomembrane component with high content of phospholipids (lecithin, phosphatidylinositol)

MOINA APPLIED PRODUCTION TECHNOLOGY : SEAHORSE

Possess complete Omega-3 HUFA Seahorse farming technology



- Dry Seahorse
- Live Seahorse
- Seahorse
- Powdered Seahorse



- China Market KRW 7.6 trillion
- World KRW 9.5trillion
- Seahorse complete aquaculture technology (aquaculture & feeding)
- China Market Targets 10% (KRW 760 Billion)

EXPECTED EFFECTS AND MARKET IMPACT

From useful microorganisms to breeding systems, it grows into a specialized fisheries integration platform company

Step-by-step business item

- STEP 1**
Useful Microorganisms
 Rhodotorula, Rhodobacter PSB
- STEP 2**
Moina
 Establishment of Moina mass production system
- STEP 3**
Functional feed
 High efficiency fermentation feed, RAS exclusive low pollution fermentation feed
- STEP 4**
Superior seeds
 Production of quality seeds of high-value fish species such as seahorses, cephalopods, and eels
- STEP 5**
Breeding system
 breeding system incorporating BIM design-based digital twin technology



SUPPLY AND PRICE COMPETITIVENESS OF A VARIETY OF PRODUCTS



Zooplankton

	Moina	100g	It is high in Omega-3 HUFA, an essential fatty acid of fish larvae.
		500g	Excellent palatability Contains vitality-enhancing astaxanthin
	Marine Moina	100g	Excellent digestion and absorption rate Contains beta-glucan, an immune-boosting substance



Phytoplankton

	Nannochloropsis	5L/ 20L	Rotifer, For Artemia inoculation Enhanced nutrition, Color of water
		500g	Food for zooplankton
	Spirulina	500g	Food for zooplankton

Useful microorganisms

	Rhodobacter PSB	500ml	Powerful water purification
		18L	Inhibits proliferation of harmful microorganisms
	Rhodotorula	500ml	Nutritionally enhanced active feed additive Contains large amounts of protein and amino acids

DHA Seahorse

	Powder Seahorse	50gx3ea/box	Rejuvenation, Strengthening stamina Relieve menopausal symptoms
	Dry Seahorse	18cmx2ea/box	Blood circulation, Antioxidative effect Anti-inflammatory effect
		16cmx5ea/box	

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