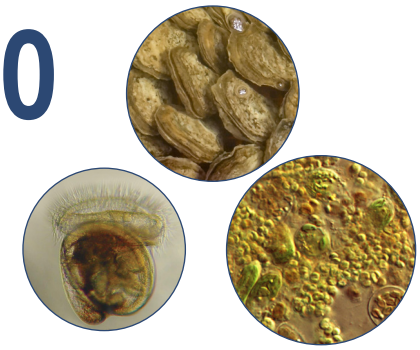
Instant Algae®— Algae When You Need It®

Shellfish Diet® 1800

Refrigerated Microalgae Blend

For Bivalve Larvae, Spat, Broodstock, and more



PRODUCT DESCRIPTION:

Shellfish Diet 1800 is a refrigerated, whole-cell concentrate blend of five microalgae: *Isochrysis, Thalassiosira pseudonana, Pavlova, Tetraselmis,* and *Thalassiosira weissflogii* —species that have demonstrated success with a wide variety of marine and freshwater shellfish, including oysters, clams, mussels, scallops and crustaceans.

APPLICATIONS:

Effective for all life stages: **first feeding larvae**, **setting**, **spat** and **broodstock conditioning**. Produces increased growth and survival rates. Common applications:

- Peak Load Supplement
- 100% live algae replacement
- Remote set
- Back-up feed supply
- For use with open tanks, silos, bottle upwellers, header tanks, cultch tanks and depuration tanks
- Effective for many species including artemia, crab, sea cucumber and some copepods

BENEFITS:

- Biosecure
- Exceptionally Clean
- Easy to use
- Always available
- Balanced Nutrition – protein, lipids (DHA, EPA), carbohydrates and carotenoids

APPEARANCE, PACKAGING & STORAGE:

- Viscous brown liquid concentrate
- 1-quart bottle, 10-liter Cubitainer®
- 4-month shelf life when refrigerated @ 0-5°C
- Do not freeze



Reed Mariculture
ENSURING HATCHERY SUCCESS

Producers of the Instant Algae,® Reef Nutrition® and APBreed® product lines •
Distributors of Otohime® and Mizuho® products for Marubeni Nisshin, Japan • Distributors of fresh Chlorella for Chlorella Ltd, Japan

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TECHNICAL DATA:

Physical Properties

Algal Cell Size..... 4–20 microns
Cell Density..... ~2 Billion cells per ml
Algal Biomass..... 80g Dry Biomass/L

Composition of Dry Algal Biomass (Typical)

Protein.....52%
Lipids.....16%
DHA..... 10.2% (% of lipids)
EPA..... 0.9% (% of lipids)
ArA..... 0.6% (% of lipids)
Carbohydrate.....22.0%
Ash.....10 %

Composition of Liquid Product

Protein..... > 4.0%
Lipids..... > 1.2%
Carbohydrate..... > 1.7%
Ash..... < 8.0%
Moisture..... < 87%

Microbial Specifications

Coliform Bacteria..... <0.3 mpn/ml
Salmonella..... Negative
Known pathogenic marine bacteria... Negative

DIRECTIONS:

1. When water is circulated with a centrifugal pump, such as with an upweller, add in front of the pump intake and the pump will disperse the algae cells.
2. When feeding into open tanks or header tanks, pre-dilute the algae 10:1 with system water.
   a. Add system water to a small bucket.
   b. Add Shellfish 1800 and stir.
   c. DO NOT BLEND; it is unnecessary and may damage the algae cells.
   d. Pour into larvae or spat tank.
   e. Pouring through a 20–micron screen can improve dispersion.
3. Feed according to the table. Adjust dosage to meet the needs of your hatchery and larvae.
4. Refrigerate bottle when not in use.

TYPICAL FEEDING RATION

Larvae:

Feed according to shell length. Shell length on a given day is an estimate. Larviculture may run up to 20 days.

Daily Feed Rates per million larvae, *Crassostrea virginica* (from FAO Protocol 'Hatchery culture of bivalves 2004')

Shell Length	Day	Shellfish Diet(ml)	=	Live *Isochrysis*(L) @4x10^6
75	2	0.4	=	0.4
95	3	0.6	=	0.6
100	4	0.7	=	0.7
115	5	2.2	=	2.1
130	6	3.8	=	3.6
145	7	5.4	=	5.1
160	8	6.9	=	6.6
190	9	9.9	=	9.5
220	10	13.0	=	12.4
240	11	15.1	=	14.4
260	12	17.1	=	16.3
270	13	18.2	=	17.3
280	14	19.2	=	18.3

Spat:

Feed by Weight

• 0.7ml Shellfish Diet per gram live weight of spat per day
OR. *See website for 'Feed by size' table*

Broodstock Conditioning and Fattening:

Typical Broodstock Feed Rates

• 0.03–0.06 ml Shellfish Diet per gram wet meat weight per day*
OR:
• 0.3–1.2 ml Shellfish Diet per adult animal per day (depending on feed ration and size*)
** Provides between 2% and 4% dry weight feed for dry weight of meat*

For details on feeding and batch or automated dispensing, visit: www.InstantAlgaeShellfish.com

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