



TECHNICAL INFORMATION (AlgaMac-ARA)

PRODUCT: ALGAE SUBSTITUTE-REPLACEMENT-ENRICHMENT DIET
AlgaMac-ARA

Manufacturer: AquaFauna Bio-Marine, Inc.
Hawthorne, California 90250 USA

I. Physical Characteristics

Brown powder, Spray-dried

II. Qualitative/quantitative formula of composition, (expressed in percentages).

ARA CONTENT: 12% by weight

Protein	14.0%
Fat	30.0%
Carbohydrate by subtraction	20.0%
Ash	20.0%
Moisture	7.0%
Fiber	1.0%

Ingredients: Produced from cells of *Mortierella alpina*, algae.

III. Shelf life

Product should be stored at temperatures <50F (10C) for long term inventory. When properly stored, this product has a shelf life of 15 months from the date of manufacture as identified by lot code.

IV. Commercial presentation

1 Kg vacuum packed re-sealable foil bags, 6 bags (6kg) / case or 100 kgs fiber drums (non-vacuum).

V. Commercial use

Additive component for larval, conditioning and maturation diets for increasing larval survival, conditioning maturation broodstock diets or for use in general terrestrial and aquatic diet formulation.

Hawthorne, January 1, 2007
AQUAFAUNA BIO-MARINE, INC.
[questions?: inquiries@aquafauna.com](mailto:inquiries@aquafauna.com)

Typical Analysis: (produced from cells of *Cyrothecodinium* algae)

Fatty Acid Composition:		(% of Fat)
16.0	palmitic	13.2
18.0	stERIC	10.3
18.0	oleic	10.8
18.2	linoleic	8.7
20.4	ARA	37.0
20.5	EPA	0.0
22.5	DPA	0.0
22.6	DHA	2.4

Vitamins & Pigments	
True Vitamin A (U/lb)	1200.0
Vitamin C (ppm)	210.0
Vitamin D (U/lb)	3400.0
Vitamin E (mg/lb)	110.0
Caroene (mg/lb)	0.08
Xanthophyll (mg/lb)	2.7

Amino Acid Profile	(% of Protein)
Methionine	2.3
Cysteine	0.7
Lysine	6.5
Phenylalanine	7.0
Leucine	13.7
Isoleucine	5.8
Threonine	4.2
Valine	6.2
Histidine	3.3
Arginine	5.4
Glycine	3.8
Aspartic Acid	8.2
Serine	4.2
Glutamic Acid	11.7
Proline	6.1
Hydroxyproline	0.1
Alanine	6.6
Tyrosine	3.5

Major Minerals	(%)
Calcium	0.07
Chloride	3.08
Potassium	0.31
Phosphorus	0.80
Sodium	2.64
Sulfur	0.22

Trace Minerals	(ppm)
Iron	5.0
Manganeso	1.0
Zinc	9.0
Copper	2.0
Cobalt	<0.1
Iodine	2.5
Magnesium	362.0