



Epicore BioNetworks Inc.

EPIFEED[®]-LHF Liquid Hatchery Feed

PRODUCT DESCRIPTION

EPIFEED-LHF is a unique range of liquid larval hatchery feeds that provide superior hatchery nutrition and cause fewer pollution problems than traditional dry feeds.

BENEFITS TO AQUACULTURE

- Enhanced nutritional value, attractiveness and digestibility.
- Reduces *Artemia* requirements by more than 50% and completely replaces dry diet
- Increases larval survival by 5-10%.
- Produces superior quality and stress resistant PL.
- Reduced algal requirements with EPIFEED-LHF1 use in early zoeal stage.
- Can enrich *Artemia* with EPIFEED-LHF1.
- Easy to use liquids.
- Cleaner tank bottoms and reduced need for water exchange, less wasted feed.
- Major cost benefits compared to competitive diets.

MODE OF ACTION

EPIFEED-LHF feeds are composed of the finest quality, highly palatable and easily digestible ingredients that are constantly available to larvae, promoting consumption and assimilation of the nutrients and hence optimum larval growth and survival. The unique emulsion form of these products provides neutrally buoyant particles that remain suspended in the water column.

INGREDIENTS

EPIFEED-LHF feeds are comprised of marine protein, plant protein, olefinic lipids (HUFA), phospholipids, complex carbohydrates, soluble sugars, B complex and C vitamins, fat soluble vitamin complex, broad spectrum micro-nutrient and attractant.

PRODUCT DATA

Parameter	LHF1	LHF2	LHF3
Form	Liquid	Liquid	Liquid
Specific Gravity	1.2	1.2	1.1
pH	5.3	5.3	4.7
Solids Content (% by wt)	57	61	64
Avg. Particle Size (microns)	30	85	245

PRODUCT DATA

Parameter	LHF1	LHF2	LHF3	Parameter	LHF1	LHF2	LHF3
Protein (%)	15	15	21	Moisture (%)	43	39	36
Lipid (%)	17	18	18	Protein (% dry basis)	23	21	33
Carbohydrate (%)	20	24	20	PUFA (%)	6	6	6
Fiber (%)	4	4	5	HUFA (%)	4	4	4
Ash (%)	1	1	1	Energy (J/gm)	12	13	14

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IMPORTANT NOTICE TO PURCHASER

"Epicore BioNetworks, Inc. ("Epicore") warrants that the product conforms to its compositional description and is reasonably fit for the purpose stated on the label when used in accordance with the label instructions under normal conditions of use. There are no other express or implied warranties, whether as to merchantability, fitness for any use, or otherwise, given in respect of the product. Neither Epicore nor its agents shall be liable for any damage, loss, or injury, whether the same arises directly or consequentially, by reason of any matter whatsoever relating to the use of the product, and any buyer's or user's exclusive remedy in any instance shall be limited to a refund of the purchase price paid."

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FEEDING TABLE (*Penaeus vannamei*)

Assumes 6x15 oz 90%-hatch Artemia used per million PL produced per cycle)

Day of Culture	Stage	# Feeds Per Day	Feed (gm/day/KK animals)		
			LHF1	LHF2	LHF3
1	Nauplii 4-6	-	-	-	-
2	Zoea 1	3-6	10	-	-
3	Z1/Z2	3-6	14	-	-
4	Zoea 2	3-6	17	-	-
5	Zoea 3	3-6	20	-	-
6	Z3/M1	3-6	23	-	-
7	Mysis 1	3-6	28	-	-
8	Mysis 2	3-6	-	35	-
9	Mysis 3	3-6	-	45	-
10	PL1	3-6	-	60	-
11	PL2	3-6	-	75	-
12	PL3	6-12	-	90	-
13	PL4	6-12	-	-	110
14	PL5	6-12	-	-	120
15	PL6	6-12	-	-	128
16	PL7	6-12	-	-	140
17	PL8	6-12	-	-	153
18	PL9	6-12	-	-	162
19	PL10	6-12	-	-	170
20	PL11	6-12	-	-	179
21	PL12	6-12	-	-	187
Total/cycle			112	305	1,349

TREATMENT SUGGESTIONS

- Avoid over and under feeding by frequently observing larval health, quality and feeding rate to adjust feed quantity.
- Increase feed quantity for at water temperatures above 28°C.
- Adjust rate for Artemia used and animals present.
- 0.75 kg EPIFEED-LHF replaces 1.0 kg *Artemia*.

PRODUCT PURITY

Epicore can certify that EPIFEED-LHF feeds do not contain any: fungus, Salmonella, Shingella, shrimp byproducts, antibiotic residues or YHV, WSSV or TSV virus.

PRODUCT STORAGE

- Do not store continuously at temperatures above 40°C.
- Do not freeze.
- Store out of direct sunlight in a well-ventilated area.
- Once opened use package within one month.

SHELF LIFE: two years if stored as recommended.

PACKAGING

Supplied in cases of 6 plastic jars. Net contents approximately 1 kg for LHF1 and LHF2 and approximately 0.8 kg for LHF3.