

Greater Yield, Faster Growth



# **About Us**

As one of the leading pioneers of aquaculture solutions, SyAqua specialises in helping shrimp hatcheries and farmers improve their yield and productivity through advanced technologies and innovative products. Established in 2001 by SyGen, a global livestock breeding company, SyAqua partnered with Gold Coin, a leading Asian aquafeed company to develop improved genetic

and hatchery feed solutions for the industry. Driven by vast experience and cutting-edge technologies, SyAqua carries on a legacy of pioneering new products that ensure fast growth and superior performance for our customers. Our genetics and nutrition research have resulted in many highly recognised products and solutions trusted in top hatcheries and farms worldwide.

COMPANY WITH FOOD SAFETY SYSTEM CERTIFIED BY DNV GL = ISO 22000 =





# **Nutrition**

SyAqua feed products are the result of years of research and development into shrimp larval nutrition. Formulated with high quality, highly digestible ingredients and emphasis on optimal growth, assimilation and nutritional value. Used in hatcheries across the world, our products are reputed for delivering faster yield rates and higher quality yield.



# Product Range | ENCAP® Microencapsulated Shrimp Hatchery Feed

Ration	Particle Size
Zoea Feed	< 77 µm
Mysis Feed	77 – 100 µm
Early Post – Larva Feed (PL 1-5)	100 – 250 µm
Late Post – Larva Feed (PL 6-12)	200 – 350 µm

Ingredients of the highest quality and digestibility are microencapsulated within a digestible, water stable capsule to allow better assimilation and utilization. Our microencapsulation process is carried out at low temperature to maximise nutrient and vitamin availability.

## **BENEFITS:**

- Simple to use Just add straight to the rearing tanks and avoid complex rehydration procedures.
- Ensure water stability through controlled buoyancy maintaining feed in the water column.
- · Minimal feed wastage to maximise feed intake .
- Controlled buoyancy To ensure high food availability in the water column.
- High Survival High nutrient availability for stronger larvae.
- Fast Growth Targeted nutrition and precise size distribution support fast growth.

# **NUTRITIONAL PROFILE:**

Crude Protein	: min 50%
Crude Fat	: min 10%
HUFA	: min 3%
Crude Ash	: max 18%
Moisture	: max 8%

# **INGREDIENTS:**

Marine protein, plant protein, marine lipids, plant lipids, vitamins, minerals, carotenoids.

# **STORAGE**:

- Store at room temperature.
- Keep in refrigerator once opened and use within one month of opening.

# **NUTRITIONAL ASPECTS:**

**Zoea Stage** - Formulated to provide nutrition in an easily digestible form to support the rapidly developing zoea stages.

**Mysis Stage** - Encap is specially formulated for the developing digestive system and nutritional needs of mysis stage shrimp.

**Post-Larva Stage** - The post-larva stages are a time of rapid changes in the shrimp physiology. Encap PL feed is formulated to meet the changing nutritional needs of post-larvae at this time.



#### **RECOMMENDED FEEDING** GUIDE:

Grams Feed Required/1 million Fry/ day.

Live feeds (algae and Artemia) should also be used as a supplement to Encap feeds.

### **PACKAGING:**

ENCAP<sup>®</sup> hatchery feed is packed in 425 gram cans (12 cans per carton).



# Product Range | HiPro Shrimp Hatchery Feed

Feed	Particle Size
Early Post – Larva Feed (PL 1-5)	100 – 250 µm
Late Post – Larva Feed (PL 6-12)	200 – 350 µm

HiPro is a high quality, easily digestible feed, formulated to meet the nutritional needs of postlarvae. An innovative micro-coating technique locks in nutrients and prevents leaching until it is consumed by the shrimp.

## **BENEFITS:**

- Simple to use Just add straight to the rearing tanks and avoid complex rehydration procedures.
- Ensure water stability through controlled buoyancy maintaining feed in the water column.
- · Minimal feed wastage to maximise feed intake .
- Controlled buoyancy To ensure high food availability in the water column.
- High Survival High nutrient availability for stronger PL.
- Fast Growth Targeted nutrition and precise size distribution support fast growth.

#### **NUTRITIONAL PROFILE:**

Crude Protein	: min 50%
Crude Fat	: min 10%
HUFA	: min 3%
Crude Ash	: max 18%
Moisture	: max 8%

#### **INGREDIENTS:**

Marine protein, plant protein, marine lipids, plant lipids, vitamins, minerals, carotenoids.

### **STORAGE:**

- Store at room temperature.
- Keep in refrigerator once opened and use within one month of opening.

## **NUTRITIONAL ASPECTS:**

SyAqua unique formula and advanced microcoating technology protects the nutrients until the feed is eaten.



### **RECOMMENDED FEEDING** GUIDE:

Grams Feed Required/1 million Fry/ day.

Live feeds (algae and Artemia) should also be used as a supplement to HiPro feeds.

# **PACKAGING:**

HiPro Shrimp Hatchery Feed is packed in 1Kg cans.

			Sy_qua The second secon					
FEED			EARLY	- POST I	ARVA			
STAGE	PL1	F	PL2	PL3	PL	4	PL5	
AMOUNT	140	1	60	180	20	0	220	
			Sy qua where the second secon					
FEED			LATE	- POST L	ARVA			
STAGE	PL6	PL7	PL8	PL9	PL10	PL11	PL12	
AMOUNT	240	260	280	300	320	340	360	

# Product Range Microparticulate Shrimp Hatchery Feed

Feed	Particle Size
Early Post – Larva Feed (PL 1-5)	100 – 250 µm
Late Post – Larva Feed (PL 6-12)	200 – 350 µm

SyAqua microparticulate feed contains high quality sources of nutrients in a form suited to the changing feeding habits and developing digestive system of post-larvae.

#### **BENEFITS:**

- Ensure water stability through controlled buoyancy maintaining feed in the water column.
- High Survival High nutrient availability for stronger PL.
- Simple to use Just add straight to the rearing tanks and avoid complex rehydration procedures.

#### **NUTRITIONAL PROFILE:**

Crude Protein	: min 50%
Crude Fat	: min 10%
HUFA	: min 2%
Crude Ash	: max 18%
Moisture	: max 10%

#### **INGREDIENTS:**

Marine protein, plant protein, marine lipids, plant lipids, vitamins, minerals, carotenoids.

### **STORAGE:**

- Store at room temperature.
- Keep in refrigerator once opened and use within one month of opening.



## RECOMMENDED FEEDING GUIDE:

Grams Feed Required/1 million Fry/ day.

#### **PACKAGING:**

Microparticulate Shrimp Hatchery Feed is packed in 1Kg cans and 5Kg buckets.

	IT - LANVA PEED (PLT - S)			LATE POET - LANKA FEED (F	R4-12)			
FEED			EARLY	- POST I	LARVA			
STAGE	PL1	P	PL2	PL3	PL	4	PL5	
AMOUNT	140	1	60	180	20	כ	220	
FEED			LATE	- POST L	ARVA			
STAGE	PL6	PL7	PL8	PL9	PL10	PL11	PL12	
AMOUNT	240	260	280	300	320	340	360	

# Product Range | GCMAT-SH1 Broodstock and Maturation Feed

GCMAT-SH1 broodstock and maturation feed is designed to promote reproductive activity in broodstock as a replacement for live and fresh feeds.

#### **BENEFITS:**

- · Reduces biosecurity risks associated with live feeds.
- · Easily stored and always available.
- Mash formula allows easy mixing with other feed additives.
- Superior reproductive performance and nauplius production.

# **NUTRITIONAL PROFILE:**

Crude Protein	: min 50%
Crude Fat	: min 10%
Crude Fibre	: max 4%
Crude Ash	: max 15%
HUFA	: min 3%
Moisture	: max 12%

#### **INGREDIENTS:**

Marine protein, plant protein, marine lipids, plant lipids, vitamins, minerals, carotenoids.

#### **STORAGE:**

- Store at ambient temperature with good ventilation, away from heat, moisture and direct light.
- Preferably stacked on pallets away from floor.

### **PACKAGING:**

GCMAT – SH1 – Broodstock and Maturation Feed is packed in 5Kg buckets.

# **PREPARATION:**

#### Materials Needed:

GCMAT-SH1 Broodstock feed, water (approx. 750-800 ml/ Kg GCMAT-SH1), food mixer, meat grinder (min. 7mm hole die)

#### Methods:

- 1. Put GCMAT-SH1 in the mixing bowl.
- 2. Mix other additives if desired.



- Slowly add the water to the mixture and mix thoroughly until a dough-like consistency is reached. This should take around 10 minutes. Add more water if necessary.
- Extrude the moist pellets through the grinder and cut to desired length. Fish or krill oil can be added at 1% of the feed (1% of GCMAT or 1% of feed mixture) to lubricate the die and act as an attractant.
- 5. Lay the extruded noodles on a flat surface for 1 hour to solidify
- 6. Feed to broodstock.
- Pellets should be frozen if not used immediately if not used immediately noodle allow to solidify for 1 hour.



Usage Phase	Broodstock Grow Out	Maturation
Shrimp Size	10 - 40 grams	> 35 grams
Feeding Rate as % of Biomass on dry- weight basis (multiply by 1.8 for semi-moist weight basis)	0.5% - 1% of biomass per meal	2 - 4% of biomass per day. Replacing 30 - 70% of fresh food
Number of feeding/ day	1 - 2 meals per day complementing regular grow out feed	2 - 4 meals per day
REC	OMMENDED FEEDING	GUIDE

# **Asia Pacific Footprint**

Our products are distributed across the Asia Pacific with established customer bases in major shrimp producing markets. Through unrivalled expertise and quality assurance in broodstock, nauplii, PL or nutrition products for shrimp, SyAqua is poised to expand its global presence in the years ahead.











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