



A U M E N Z Y M E S

## Aquazyme PD [Phytate degradation] Eco microorganisms & specialty enzymes

*Aum Enzymes*  
India's #1 Speciality Enzyme Products

### BENEFITS

- # Eco friendly and biodegradable
- # Reduce phosphorus pollution
- # Reduce algal growth in aquatic ecosystem
- # Fish can tolerate poor water quality
- # Improves overall health of fishes
- # Improves survival rates of fishes
- # Improves systems biological stability
- # Improves production yield
- # Improves the pond environment, pond water quality and Colour

### DESCRIPTION

Aquazyme PD is synergistic blend of various eco-microorganisms and phytase enzyme specially produced by SSF techniques and designed for phytate degrading aquatic organic waste in ponds for aquaculture of shrimps, prawns and fish.

Suitable alternative feed ingredients such as grains and oilseed byproducts are the most promising sources of protein and energy for aqua feed in the present scenario.

However, the use of such plant –derived ingredients in aqua feed is limited because of the presence of a wide variety of anti nutritional substances. Phytic acid or phytate is one such compound that common constituent of plants. Fish cannot digest phytate phosphorous as they lack intestinal phytase [Except hybrid *tilapia –Oreochromis niloticus X O.aureus*].

Aquazyme PD is phytase supplementation in Aqua diet beneficial where plant ingredients dominate feed formulation.

### PRODUCT TYPE: BROWN COLOUR POWDER

Parameter	Optimal range	Operational range
Temperature	15°C-40°C	10°C-45°C
pH	6.0 TO 9.0	5.5 TO 9.5
Odour : Yeast like	Microbial count : 1 billion CFU /Gram	
	Type of Enzymes: Phytase	

### TECHNICAL DATASHEET [Aquazyme PD]

While using Aquazyme PD, it is recommended first product may be mixed thoroughly with slight wet sand [1:10 ratio] and immediately apply uniformly on to the pond water from dock or feeding boat. Early morning application advisable [before sunshine]. There are many factors that influence the perfect pond management with Aquazyme PD, such as:

- ❖ Type and size of pond
- ❖ Environment and aquaculture practices
- ❖ Feed types and feed amount
- ❖ Water salinity and temperature
- ❖ Soil preparation
- ❖ Level of contaminants
- ❖ Weekly inflow and outflow
- ❖

**A typical dosage of Aquazyme PD is given below**

<b>Application period</b>	<25pl/m <sup>2</sup> Black tiger OR <80pl/m <sup>2</sup> White shrimp	<25pl/m <sup>2</sup> Black tiger OR <80pl/m <sup>2</sup> White shrimp
7 days pre stocking	0.9-1.2 Kg/ha	1.2-1.5 Kg/ha
<b>Day of Stocking</b>	<b>0.6-0.8 Kg/ha</b>	<b>0.6-0.8 Kg/ha</b>
Every 7 days after stocking	<b>0.6-0.8 Kg/ha</b>	<b>0.6-0.8 Kg/ha</b>
Total amount used Kg/Crop/ha	12-16 kg	16-21 kg

#### **STORAGE**

Enzyme products should be stored in a cool dry place. When stored below 35°C products will maintain its declared activity for at least 24 months.

#### **PAKAGING**

Enzyme products are available in 25kg bag packing. Special packaging is also available on request.

#### **SAFETY**

The product is produced under hygienic condition and is subject to stringent quality control

#### Toxicology

The product produced by GRAS microorganism and is classified as non toxic.

#### Biodegradability

Product is Biodegradable.

#### Handling precaution

Enzymes are proteins and inhalation of dust or aerosols may induce sensitization and may cause allergic reactions in sensitized individuals. Some enzymes may irritate the skin, eyes and mucous membranes upon prolonged contact.

#### **REGULATORY INFORMATION:**

#### EEC Classification

In concentration form, the enzymes products are classified as “sensitizers by inhalation” under the terms of EEC directive 88/379.

#### **TECHNICAL SERVICE:**

Aum Enzymes technical service laboratory shall be pleased to provide more information covering specific applications for all products or discuss any practical problem which many occur in the industry.

Technical datasheet given with each product are only given as usage guidelines, but tests should be carried out under local conditions to fix the optimum dosage for the bio type and conditions.

## **AUM ENZYMES**

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