



PT. Sumber Bioenergi Indonesia


Jln. Merbau, Kompleks Merbau Mas No. 107 Medan

PRIMA BIO Shrimp


1. Probiotics based on local microorganisms that work to control harmful substances such as ammonia and nitrite (which can cause stress/death to shrimp) and balance nitrate levels in ponds.
2. Natural probiotics to stimulate the growth and development of shrimp and support the fertility of soil and pond water

 – **BIO Shrimp** POWDER FORM

Probiotic Powder for Shrimp & Pond Health

 Packaging & Appearance

Probiotic Powder for Shrimp & Pond Health

 Packaging & Appearance

Parameter	Specification
Form	Fine powder, cream to light brown color
Solubility	Fully soluble in water
Packaging	Aluminum foil bag (20g, 50g, 100 g, 500 g, 1 kg, 5 kg, 20 kg)
Shelf life	18 months in a cool, dry place

 Active Ingredient Composition (per 1 kg powder)

Component	Concentration
<i>Bacillus subtilis</i>	2.0×10^{11} CFU
<i>Bacillus licheniformis</i>	1.5×10^{11} CFU
<i>Bacillus polymixa</i>	1.0×10^{11} CFU
<i>Lactobacillus plantarum</i>	1.0×10^{11} CFU
<i>Lactobacillus acidophilus</i>	1.0×10^{11} CFU
<i>Bacillus megaterium</i>	1.0×10^{11} CFU
<i>Bacillus coagulans</i>	1.2×10^{11} CFU



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<i>Bacillus circulans</i>	0.8 × 10¹¹ CFU
<i>Nitrosomonas</i> sp.	0.8 × 10 ¹¹ CFU
<i>Nitrobacter</i> sp.	0.8 × 10 ¹¹ CFU
Essential amino acids (lysine, methionine)	
Vitamin C (stabilized)	
Carrier (maltodextrin)	q.s. to 1 kg

Application	Liquid Form	Powder Form
Mixed with feed	5 ml per kg of feed	3 grams per kg of feed
Applied to water	300 ml per 1,000 m ³ water	150 grams per 1,000 m³ water

Detailed Conversion Examples

Liquid Dosage	Powder Equivalent
1 ml	0.5 gram
5 ml	2.5 – 3 grams
10 ml	5 – 6 grams
50 ml	25 – 30 grams
100 ml	50 – 60 grams
300 ml	150 – 180 grams
500 ml	250 – 300 grams
1 Liter	500 – 600 grams

HOW TO USE (POWDER FORM)

A. For Shrimp Health & Growth (Mixed with Feed)

Culture Stage	Dosage per kg of feed	Method
Post-larvae (PL – day 30)	2 – 3 grams	Dissolve in 20–30 ml water, spray onto feed
Grow-out (day 31–90)	3 – 5 grams	Dissolve in 30–50 ml water, spray onto feed



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		Frequency: 3 consecutive days at the start of use. Then twice a week for maintenance
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Application steps:

- Weigh the required dosage
- Dissolve in clean water (not chlorinated water)
- Stir for 1–2 minutes until fully dissolved
- Spray evenly onto feed while mixing
- Let stand for 15–30 minutes before feeding to shrimp

💡 Tip: Use a fine mist sprayer for even distribution.

B. For Pond Health (Applied Directly to Water)

Pond Condition	Dosage per 1,000 m ³ water	Frequency
Normal / preventive	100 – 150 grams	Once a week
Cloudy water / rising ammonia	200 – 250 grams	3 consecutive days
Post-harvest (biological sterilization)	300 grams	Once, let stand for 2 days

Application steps:

- ❖ Take pond water in a bucket (about 10–20 liters)
- ❖ Add ProShrimBio powder little by little while stirring
- ❖ Stir vigorously for 3–5 minutes until fully dissolved
- ❖ Let the mixture sit for 10–15 minutes (to activate the bacterial)
- ❖ Broadcast evenly across the entire pond surface
- ❖ Apply in the morning or late afternoon (avoid midday sun)

💡 Tip: For very cloudy ponds, apply twice daily (morning & evening) for 3 consecutive days.

C. For Feed Fermentation (Prebiotic + Probiotic)

This method makes feed more digestible and significantly improves shrimp growth.

Ingredient	Amount
PRIMA BIO Shrimp powder	10 grams
Clean water/molase brix 7	1 liter/
Rice bran / pollard	1 kg
Shrimp feed (ground)	500 grams

How to make:

- Dissolve 10 grams of **PRIMA BIO Shrimp** in 1 liter of water



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- Mix rice bran and ground feed in a container
- Pour the probiotic solution little by little while stirring evenly
- Cover and let ferment for 12–24 hours
- The fermented mixture can be given directly to the pond as supplemental feed

💡 Benefits: Increases appetite, accelerates growth, and improves shrimp gut health.

D. For Sick or Stressed Shrimp (Treatment)

Parameter	Dosage
Mixed with feed	6 grams per kg of feed
Broadcast to water	300 grams per 1,000 m ³ water
Duration	5 – 7 consecutive days

Signs of recovery:

- Increased appetite
- Brighter body color
- Active movement
- Significantly reduced mortality

📊 Quick Dosage Reference Table

Purpose	Dosage per kg feed	Dosage per 1,000 m ³ water	Frequency
Normal growth	2–5 grams	-	Twice a week
Disease prevention	3–4 grams	100–150 grams	Once a week
Cloudy water / high ammonia		200–250 grams	3 consecutive days
Sick / stressed shrimp	6 grams	300 grams	5–7 consecutive days
Post-harvest treatment	-	300 grams	Once

⚠️ Important Notes (Powder Form)

- Do not sprinkle dry powder directly into the pond – always dissolve it in water first to activate the bacteria.
- Use non-chlorinated water – chlorine kills probiotic bacteria. If using tap water, let it sit overnight first.
- Do not mix with disinfectants or antibiotics – allow at least 2 days interval.
- Store in a cool, dry place – avoid high humidity to prevent clumping.
- Once opened, use within 3 months – to maintain bacterial viability.
- Stir the solution vigorously – to ensure the powder dissolves completely.



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 Dosage Conversion: Liquid to Powder

If you previously used **PRIMA BIO Shrimp** in liquid form, here is the conversion:


Liquid Form	Powder Form
5 ml per kg feed	3 grams per kg feed
300 ml per 1,000 m ³ water	150 grams per 1,000 m ³ water

Conversion ratio: Approximately 2 ml liquid \approx 1 gram powder (depending on bacterial density)

 How to Test Product Effectiveness

to check if **PRIMA BIO Shrimp** Powder is still active:

- Take 1 gram of PRIMA ProBiotic
- Dissolve in 1 liter of sugar water (1 tablespoon sugar + 1 liter water)
- Let stand for 24 hours at room temperature
- If bubbles appear and a sour fermentation smell develops \rightarrow product is still active
- If no change or a foul smell appears \rightarrow replace with a new batch

 LABEL DESIGN FOR – POWDER PACKAGING

Packaging Type: Aluminum Foil Stand-Up Pouch

Available Sizes: 20 | 50 | 100 g | 500 g | 1 kg | 5 kg | 20 kg