



**Compro<sup>®</sup>**

**Napro<sup>®</sup> Aqua Water  
Treatment Probiotics**

# ■ SPECIFICATION

## Napro<sup>®</sup> Water Treatment Probiotics

### General Information

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Product Code:	PR-25
Product Name:	Probiotics
Brand Name:	Napro <sup>®</sup>
Place of Origin:	China

### Application

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For Fish & Shrimp & Crab & Lobster Ponds

### Performance

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- Improve water quality & clarity
- Remove odors like ammonia & nitrite & nitrate
- Boost immune system of aquatic animals
- Strengthen resistance against diseases
- Enhance digestion & absorption of nutrients in aqua feeds

### Composition

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Bacillus Subtilis	5.0 * 10 <sup>9</sup> CFU/gram
Bacillus Licheniformis	5.0 * 10 <sup>9</sup> CFU/gram
Enterococcus Faecalis	5.0 * 10 <sup>8</sup> CFU/gram
Protease	500 U/g
Cellulase	200 U/g
Pectinase	100 U/g
Xylanase	100 U/g

### Physical/Chemical Specification

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Appearance	White Powder
Particle Size 60 Mesh	Min. 90.0% Pass
Loss on Drying (Water)	Max. 10.0%
Heavy Metal	Max. 10 ppm

### Microbiological Specification

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E. Coli	Negative
Salmonella	Negative

\* None of the ingredients is from animal source.

### Method of Analysis

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Colony Forming Unit (CFU) & Spectrophotometry

### Package

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1 kg/bag, 10 bags/carton

### Shelf Life

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24 months from production date

### Product Features

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Excellent water solubility | No caking | No chemical residues

### Usage & Dosage

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- Mix it with fresh water, then drop into aqua pond or tank.
- 1st month: 1 gram / M<sup>3</sup> per week
  - 2nd month: 1.5 gram / M<sup>3</sup> per week
  - 3rd month: 2 gram / M<sup>3</sup> per week
  - 4th month: 3 gram / M<sup>3</sup> per week
  - 5th month: 4 gram / M<sup>3</sup> per week
  - 6th month: 6 gram / M<sup>3</sup> per week
  - After 6th month: 8 gram / M<sup>3</sup> per week [if available]

### Storage

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- Keep in a cool, dry & well-ventilated place.
- Keep out of reach of children.
- Reseal the package tightly after use.

# Appendix -- Trial Report

## 1.1 Materials

Napro<sup>®</sup> probiotics for water treatment of aquaculture, provided by Compro (China) Limited

## 1.2 Method

Sterilize the two ponds with quicklime before putting prawn seedling into them. The water temperature is 25~30°C during the trial period. Collect water sample at a certain site in the two ponds in the mornings of the 1st, 3rd, 5th, 7th, 9th, and 11th day after putting into the bacterial solution.

### 2.1 COD value

From the COD value determined in the treatment pond and control pond, we can see that the COD value in the treatment pond decreases from 9.85 mg/L on the first day to 7.87 mg/L on the eleventh day, while the COD value in the control pond increases from 8.95 mg/L on the first day to 9.69 mg/L on the seventh day, and then decreases. The COD value in the treatment pond is far lower than that in the control pond.

### 2.2 Concentration of nitrate

The result shows that the concentration of nitrate in the treatment pond decreases from 0.088 mg/L to 0.059 mg/L, while the concentration of nitrate in the control pond increases from 0.072 mg/L to 0.085 mg/L.

### 2.3 pH

The result shows that pH value in the treatment pond varies from 7.5 to 8.4, while pH value in the control pond is always higher than that in the treatment pond, and can reach to 8.7.

### 2.4 Concentration of H<sub>2</sub>S

The concentration of H<sub>2</sub>S in the control pond is 0.008~0.030 mg/L, while the concentration of H<sub>2</sub>S in the treatment pond decreases from 0.060 mg/L at the beginning to 0.015 mg/L on the eleventh day.

## 3. Conclusion

The main ingredients Bacillus Subtilis & Bacillus Licheniformis in Napro<sup>®</sup> Probiotics are a kind of bacteria which can break down organic matter rapidly, help oxidate H<sub>2</sub>S and nitrite, have strong adaptation to environmental changes, and grow fast. It can effectively decrease the COD value, concentration of nitrite and H<sub>2</sub>S, and pH in the ponds. The result proves that Napro<sup>®</sup> Probiotics can effectively improve the water quality in ponds, and stabilize the ecological balance in the aquatic ponds.

\* For specific solution, please contact our sales representative or local distributor.

# Enzymes & Probiotics



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