

Novozymes PondPlus®

Stable bloom and enhanced yield

Maintaining a stable phytoplankton bloom and good water quality during the crop cycle is of paramount importance for successful pond aquaculture. A well-maintained pond will provide higher yields, lower FCR, and a crop less prone to disease. You gain a healthier bottom line, as well as better water quality.

PondPlus® is a synergistic blend of proprietary microorganisms that maintains water quality during the crop cycle, degrades organic bottom wastes, and effectively balances the phytoplankton bloom.

Technical results: Stable bloom



Fig. 1. Pond treated with PondPlus® showing stable bloom and green color, indicating a healthy pond.

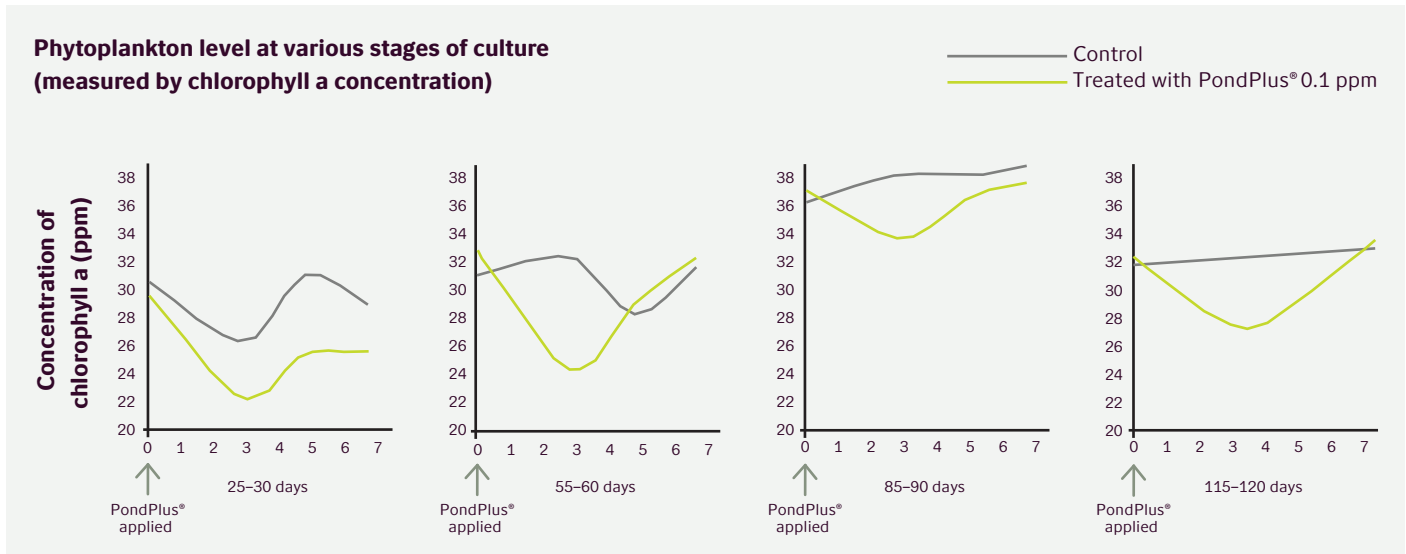
Benefits of using PondPlus®

- **Stable bloom:** A propriety strain in PondPlus® ensures a stable bloom throughout the crop cycle
- **Clean bottom:** Unique strains selected for their ability to work at low oxygen levels digest bottom sludge and excess feed – keeping the bottom clean
- **Enhanced yield:** By ensuring an optimal and stress-free environment, survival is increased and the feeding rate is improved, resulting in lower FCR and enhanced yields

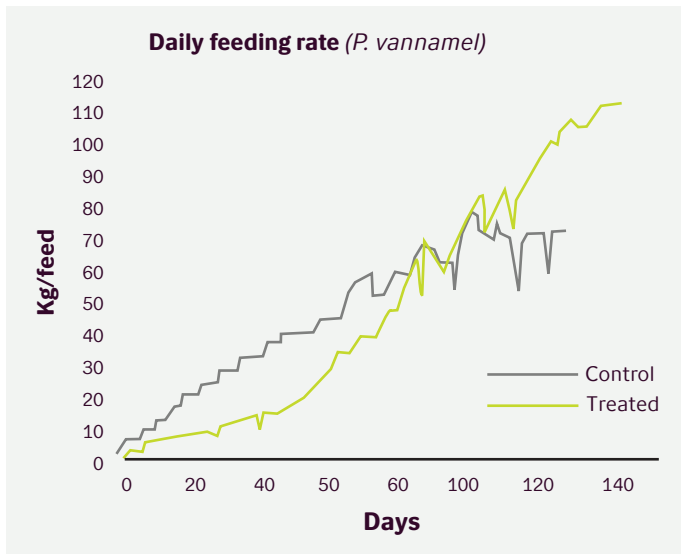


Fig. 2. Nontreated pond with turbid water, foaming and dark color caused by overbloom, indicating poor pond conditions.

Pond trials have shown that PondPlus® effectively balances the phytoplankton bloom throughout the crop cycle and prevents algae crashes and overbloomings.



Source: "Effects of Different *Bacillus* spp. for Controlling *Vibrio* spp. and Water Quality in Larval Rearing and Culture of Pacific White Shrimp (*Litopenaeus vannamei*)" Montagan Somboon et al., Kasetsart University, Thailand, 2009.



The daily feeding rate is an important indication of the crop's general health. With the use of PondPlus®, water quality is maintained, providing a healthier environment throughout the culture cycle. The result is a steady increase in the feeding rate until harvest, indicating a growing crop. In the untreated pond, the feeding rates stagnated after 70-90 days, indicating stress and slow growth.

Source: Actual collected data from shrimp ponds in Thailand.

At the forefront of sustainable agriculture, Novozymes works with partners, farmers and producers to feed and fuel a growing world.

About Novozymes

Novozymes is the world leader in biological solutions. Together with customers, partners and the global community, we improve industrial performance while preserving the planet's resources and helping build better lives. As the world's largest provider of enzyme and microbial technologies, our bioinnovation enables higher agricultural yields, low-temperature washing, energy-efficient production, renewable fuel and many other benefits that we rely on today and in the future. We call it Rethink Tomorrow.

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