

PERFOSTIM S/F

Growth and health of shrimp and fish



PROPERTIES

- PERFOSTIM S/F can be used directly by the farmer for the benefit of the farm
- PERFOSTIM S/F is a proved essential supplement blend designed to improve feed quality and rearing efficiency
- PERFOSTIM S/F is an original feed additive composed of tested bacteria and essential elements enabling :
 - stabilisation of gut bacterial flora in shrimp and fish during rearing phases
 - improved health status
 - increase in growth rates

Bacteria
→
Pediococcus acidilactici

- Colonization of the digestive tract
- Decreased pathogen activity
- Higher survival rates (see attached results)

Vitamin E
Vitamin C
→

- Stimulation of immune responses.
- Increased stress resistance (see attached results).

Selenium
→

- Antioxidant properties : limits the effect of free radicals.
- Enzymatic activity stimulation.

COMPOSITION (per kg of product)

Vitamin E : 40 000 mg
Vitamin C : 91 000 mg
Selenium : 200 mg μ

Lactic Bacteria *Pediococcus acidilactici* MA18 /5 M
200* 10⁹ cfu

USE AND PRESENTATION

- PERFOSTIM S/F is presented in powder form
- Per kg of feed: Mix 5 g PERFOSTIM S/F with 50ml of clean water (not needed for fish), then mix with the pellet or meal, wait for absorption by liquid then coat with TECH-OIL or with a good quality fish oil.
- We recommend a daily use of PERFOSTIM S/F for one week, every month or during any critical rearing phase
- Store in a cool dry place



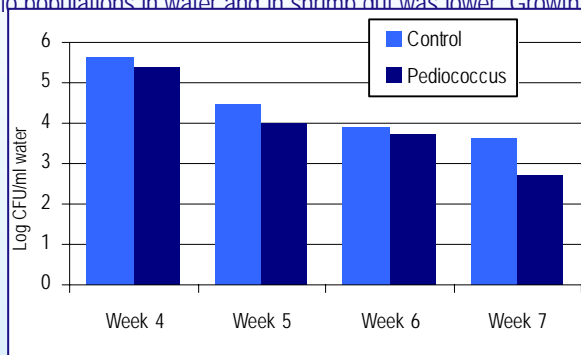
Perfostim S/F

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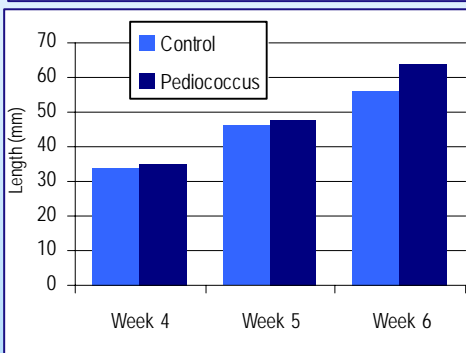


- Shrimp trials (source Lallemand courtesy) :
- Effect of administration of *Pediococcus acidilactici* MA18/5M via formulated feed on juvenile shrimp *Penaeus monodon*.
- *Pediococcus acidilactici* MA18/5M improved feeding activity, was found in the digestive tract of shrimp after 8 weeks of continuous feeding and total vibrio populations in water and in shrimp out was lower. Growth rate was significantly increased.

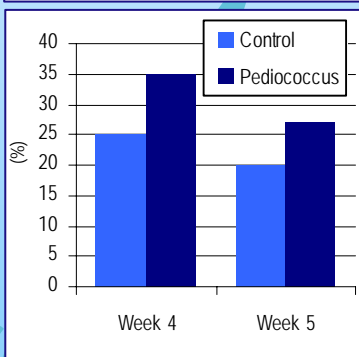
Total Vibrio population



Growth rate



Survival rate



- Fish trial (source Lallemand courtesy) : On Tilapia juvenile (*O. mossambicus* * *O. niloticus*), similar results were obtained:

Weight gain and mortality rate during sex-reversal phase

