

OREGO-STIM PLUS AS SUPPORTS SHRIMP HEALTH IN THE ABSENCE OF ANTIBIOTICS

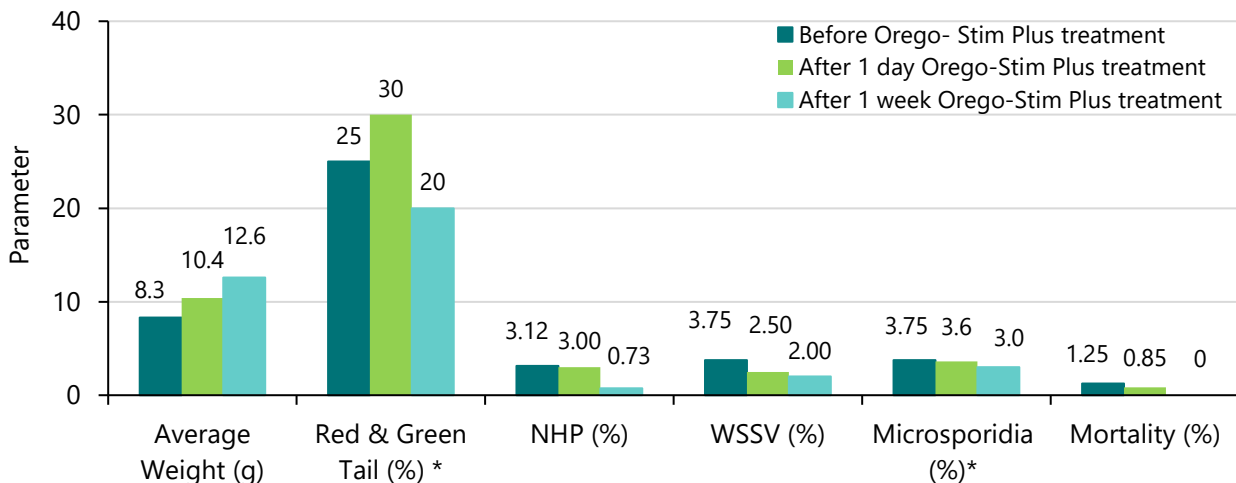
SUMMARY

- ✓ Using Orego-Stim Plus AS in shrimp feed improved shrimp growth and liveability.
- ✓ Over a similar timeframe, Orego-Stim Plus AS provided an approximate saving of **US\$ 500**, compared to Oxytetracycline (70%).
- ✓ Oxytetracycline is an antibiotic commonly used for the control of Necrotising hepatopancreatitis (NHP) and other bacterial diseases.
- ✓ Orego-Stim Plus AS is a high quality eubiotic comprised of 100% natural oregano essential oil and saponins.
- ✓ Orego-Stim Plus AS is a cost-effective, natural solution for the control of NHP in the absence of antibiotics.



COMMERCIAL STUDY DESIGN

A commercial study was conducted at a Shrimp farm in Ecuador. A pond of 5.6 hectares was stocked with *L. vannamei* at 17 shrimp/m². The producer had always used Oxytetracycline (70%) (OTC-70) for the control of NHP and other bacterial diseases. OTC-70 would be included in the diet of shrimp weighing 14g at 7 kg/tonne of feed for 1 week. In this study, the pond contained 952,000 shrimp with a starting weight of 8.3g. Shrimp were fed a standard diet supplemented with 6 kg/tonne of Orego-Stim Plus AS (OS+) instead of the 7 kg/tonne of OTC-70. OS+ supplemented diets were fed for 1 week and the following were measured; weight gain, Vibrio impact, microsporidia, NHP, White Spot Syndrome Virus (WSSV) and mortality. The comparative cost of treatments were then calculated.



*Red and Green Tail (%) is commonly associated with vibriosis and bacterial disease.

RESULTS

The addition of Orego-Stim Plus AS to shrimp feed resulted in:

- ✓ Above average shrimp growth during the period of challenge, with shrimp gaining 4.3g in one week.
- ✓ Decreased mortality, which was reduced to 0% after just one week of Orego-Stim Plus AS supplementation.
- ✓ A reduction in WSSV by 47%, in Vibrio by 20% and in NHP by 76%.
- ✓ A saving of ~ **US\$ 500** over the course of the 1-week period compared to the cost of treating shrimp with OTC-70.

The study demonstrates that Orego-Stim Plus AS is a cost-effective, natural solution to help maintain and support shrimp production, health and performance in the absence of antibiotics.

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