



PARASITIC DISEASE PREVENTION



A functional feed additive designed to reduce the prevalence and intensity of parasite infection



Parasites are normally present in fish populations, and infestations are typical events in farming activities. While eradication is not a realistic option in most aquaculture systems, preventive and control measures are part of daily routines and essential for productivity optimization in any fish farming. Apex® Prefend supports peripheral tissues such as skin and gills reducing parasites attachment and development, as well as secretions increasing the antimicrobial and detoxification power of skin mucus. The results are a better control of parasitic infestations & opportunistic infections and less impact on productivity.

The benefits of Apex® Prefend

- ✓ Broad spectrum antiparasitic action
- ✓ Reduced impact of chronic presence of parasites
- ✓ Reduced mortality by parasitic infestations
- ✓ Reduced mortality caused by opportunistic infections
- ✓ Support to peripheral tissues and secretions
- ✓ Improved performance & productivity



PROBLEM DEFINITION

Sustainable and profitable aquaculture requires adequate measures to control diseases

The profitability of many aquaculture operations is at risk due to the difficulty to control a wide diversity of disease agents. Parasitic disease, both in acute but also chronic forms, are major causes of crop failure and decreased performance in intensive farming. Further intensification of aquaculture with a clear aim to avoid the use of chemicals in aquaculture increases the need for effective measures to prevent diseases.

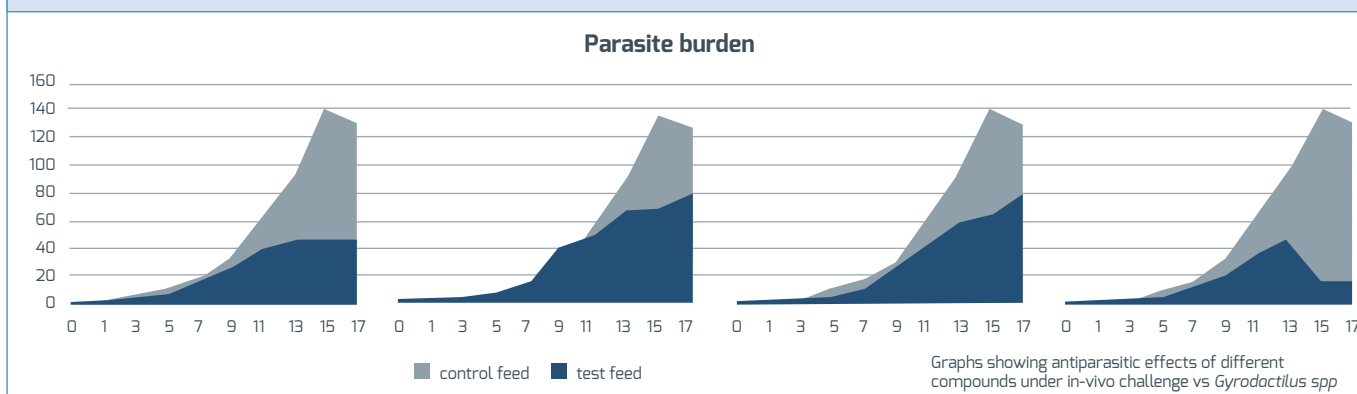
	Corrective: <ul style="list-style-type: none"> ✗ Increase costs ✗ Loss of productivity ✗ Increase disease risk 		Preventive: <ul style="list-style-type: none"> ✓ Increase productivity ✓ Increase profitability ✓ Reduce disease risk
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OUR SOLUTION

Prevention strategies based on natural health-promoting compounds

Apex® Prefend, broad spectrum parasites prevention

1 Reducing parasites attachment: selection of antiparasitic ingredient and empowering synergies



2 Supporting peripheral tissues and secretions

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| <p>Increasing antibacterial action of mucus</p> <ul style="list-style-type: none"> ✓ Inhibition of bacterial growth ✓ Increase of total protease activity | <p>Increasing detoxification power of mucus</p> <ul style="list-style-type: none"> ✓ Increase of esterase activity |
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DOSAGE/APPLICATION

- At the feed mill via the mixer (resistant to industrial processing conditions for fish feed).
- At the farm top-dressed with a suitable binder.

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| <ul style="list-style-type: none"> ● Early stages and high level of disease risk ● Grow-out stages and low-moderate levels of disease risk | <p>3-5 kg/MT</p> <p>2-3 kg/MT</p> |
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We welcome you to consult our health experts to design an optimal additive strategy for specific disease challenges in your target species.

AQUACULTURE SPECIALTY PROGRAMS

