Health Program

Sanacore® GM

GUT HEALTH !

Disease outbreaks and parasitic infestations are a major risk for the sustainability and profitability of aquaculture around the globe.
Sanacore® GM is a functional feed additive to reduce the impact of diseases and parasites on productivity of fish and shrimp. It promotes a healthy gut microbiota and suppresses growth and virulence of the bad bugs.
It makes use of nature's advanced mechanisms, including natural anti-bacterial compounds and Quorum Sensing Inhibition Technology.

The benefits of Sanacore® GM

- ✓ Broad spectrum disease prevention
- ✓ Reduced mortality caused by bacterial (co-)infections and/or gut parasites
- ✓ Improved performance & productivity

How it works ...

Sanacore® GM

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, including bacteria, virus, protozoa, parasites,... Further intensification of aquaculture will increase the need for effective measures to prevent diseases.

DISEASE — Corrective:	✘ Increase costs ✘ Loss of productivity ✘ Increase disease risk
HEALTH — Preventive:	✓ Increase productivity ✓ Increase profitability ✓ Reduce disease risk

OUR SOLUTION

Prevention strategies based on natural health-promoting compounds

Sanacore® GM, broad spectrum disease prevention based on 5 mode of actions

1	Gut Modulation towards a healthy gut microbiota · Bacteriostatic and bactericidal action against a wide range of pathogens (updated list available upon request) · Synergistic use with probiotics
2	Reducing pathogenicity and toxicity of bacterial pathogens · Pioneering Quorum Sensing Inhibition Technology · Proven efficacy *in vitro* and challenge models with *Vibrio harveyi* and *Vibrio parahaemolyticus* · Effective at concentrations well below minimum inhibitory concentration (MIC)
3	Increasing gut microbiota diversity · Enhancing resilience of gut microbiota to stress situations and pathogenic invasions
4	Natural prevention of parasites and reducing their impact on productivity · Proven efficacy under lab as well as field conditions against gut parasites protozoa in fish (myxosporidae) · Proven efficacy inhibiting spore germination in microsporidians (EHP)
5	Natural anti-inflammatory action and enhanced immune-competence

RESULTS

Overview of key trial results and research data

shrimp	improved survival results at harvest in production ponds exposed to different disease challenges and combinations (EMS, EHP, vibriosis, NHP, WFS, WSSV, IMNV)		10-74%
	survival improvement under experimental EMS challenge		62-107%
	survival improvement under experimental WFS challenge		40%
	in vitro inhibition of EHP spores germination		100%
tilapia	improved productivity in grow-out cages	Survival	15%
		FCR (Feed Conversion Rate)	16%
		final biomiass	17%
	improved growth performance under optimal conditions	FCR (Feed Conversion Rate)	4-30%
		SGR (Specific Growth Rate)	5-22%
	improved survival under disease challenge	oral challenge Francisella	32%
		intra-peritoneal challenge Streptococcus	17%
	reduced inflamation in gonads in broodstock infected by myxosporidia (Mixobolus spp)		
marine fish	reduced mortality due to prevention of myxosporidia infestation *(Enteromyxum leei)* in cage farming of seabream sp. *(Diplodus puntazzo, Sparus aurata)*		4-20 fold
	reduced prevalence of Enteromyxum leei under experimental challenge *(Sparus aurata)*		36%
	increased gut microbiota diversity indexes *(Sparus aurata, Dicentrarchus labrax)*		13-24%
	reduced mortality due to outbreak monogenean gill parasite *(Diplectanum)* in winter season *(Dicentrarchus labrax)*		64%

DOSAGE/APPLICATION

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

Early stages and high level of disease risk	2-5 kg/MT
Growout stages and low-moderate levels of disease risk	1-2 kg/MT

We welcome you to consult our health experts to design an optimal additive strategy for specific disease challenges in your target species.
Request our sensitivity analysis for your pathogen isolates.

AQUACULTURE SPECIALTY PROGRAMS

HEALTH | DIGESTION | PALATABILITY | SPECIALTY NUTRITION | FEED QUALITY | FARM CARE

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