



**Digestion
Program**

Lipomix

DIGESTIVE AND METABOLIC BOOST !



Digestive & metabolic enhancer based on bile salts

The benefits of Lipomix

- ✓ Alternative/partial replacement of cholesterol
- ✓ Hepatopancreas/liver conditioner
- ✓ Support replacement of fishmeal/fish oil
- ✓ Digestive support in feed formulations with high levels of plant ingredients
- ✓ Maximize energy availability for growth (improved protein efficiency and filleting yield)



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How it works ...



Lipomix

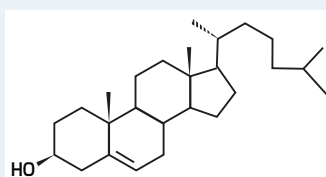
PROBLEM DEFINITION

Lipid digestion in both fish and shrimp is influenced by many parameters. For shrimp, essential lipid compounds such as cholesterol, phospholipids and highly unsaturated fatty acids (HUFA's) are key nutrients, which are less abundant and less available in plant based diets. In fish, fat digestion and metabolism can be impaired by environmental stress factors and alternative ingredients. Supplementation with a digestive & metabolic enhancer will optimise the utilisation of essential lipids and maximise the energy availability for growth.

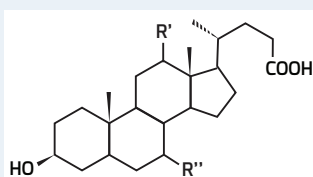
OUR SOLUTION

SHRIMP

- 1 Natural emulsifier and enhancer of fat digestion, hepatopancreas conditioner
- 2 Cholesterol replacement
- 3 Precursor of molting hormones



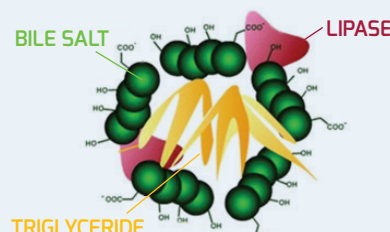
Cholesterol



Bile acid

FISH

- 1 Natural emulsifier, enhancing fat digestion (plant-based diets, saturated fat in land animal ingredients, suboptimal rearing temperatures)
- 2 Liver support (reducing need for de novo synthesis of bile acids)
- 3 Additional metabolic activities (accelerating proteolysis, liver detoxification, ...)



RESULTS

Shrimp		combined, partial replacement of fish oil, lecithin and cholesterol; without negative effect on performance		
Tilapia		- growth - FCR - PER	4 % 6 % 5 %	improvement improvement improvement
Pangasius		- daily weight gain - FCR	3.7 % 4.3 %	improvement improvement
Seabass		- SGR - FCR	7.4 % 6.7%	improvement improvement
Trout		- SGR - FCR	5 % 6 %	improvement improvement

DOSAGE

- 0.5 - 2 kg per MT of feed

Consult our aqua experts for specific recommendations per species.

AQUACULTURE SPECIALTY PROGRAMS



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