

Biotronic® Top3

The breakthrough in pathogen control



An enhanced organic acid solution
to manage Gram-negative pathogens and improve survival



Permeabilizing Complex™

blend permeabilizes the outer membrane of Gram-negative bacteria. This unique and innovative tool boosts the antimicrobial activity of both organic acids and the phytochemical against pathogens.



Phytogenic compound

inhibits cell division of pathogenic bacteria leading to a reduced bacterial load, without affecting beneficial microorganisms. In addition, with quorum quenching properties it is able to impair the cell-to-cell communication of bacteria (quorum sensing) resulting in reduced pathogen virulence.



Organic acids

are able to enter the bacterial cells where they alter the normal cellular functions leading to reduced growth. The combination of synergistically acting organic acids in this product improves their antimicrobial efficacy against pathogens and extends their spectrum of activity.

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Mode of action:

- Damages cell membranes of pathogens, impairing their functionality
- Reduces intestinal challenges
- Modulates gut microbiota
- Acts as natural growth promoter

Main benefits:

- Improves animal resilience during challenges with *Vibrio*, *Aeromonas*, *Yersinia*, *Moritella*, *Tenacibaculum*, *Piscirickettsia*, *Francisella*, *Pasteurella*, *Pseudomonas*, *Edwardsiella* and more
- Improves survival
- Reduces negative effects of gastrointestinal diseases
- Improves growth performance, meaning less time to market
- Drives sustainable aquaculture production

Application:

Biotronic® Top3 is suitable for both fish and shrimp

Biotronic® Top3 can be added into the feed mixture and is stable during typical extrusion and pelleting conditions.

Dosage:

Fish: 1.0 – 2.0 kg/T of feed

Shrimp: 0.6 – 2.0 kg/T of feed

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