Biotronic® Top3 S

Optimizing gut health in animals!



Biotronic® Top3 S is the next generation of Biotronic® Top Line product for feed applications for gut functionality improvement in livestock and aquaculture.



The Permeabilizing Complex™

blend permeates the outer membrane of Gram-negative bacteria. This unique and innovative tool boosts the antimicrobial activity of both organic acids and the phytogenic compound against pathogens like *Salmonella* spp., *E. coli* and *Vibrio* spp..



The phytogenic compound

is able to impair the cell-to-cell communication of bacteria (quorum sensing) resulting in reduced pathogenic pressure.



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.

Learn more at **dsm.com/anh**

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Main benefits:

- Improve Gastrointestinal Functionality in livestock and aquaculture species
- Prevention from the development of Gram (–) bacteria and associated damages
- Help tackling Anti-Microbial Resistance development risks

Withdrawal period:

None

Stability:

The Biotronic® Top3 S supplement must be stored in a cool and dry place, in original packing.

The minimum shelf life is 18 months from production date if stored properly.

Application:

The Biotronic® Top3 S supplement is incorporated into feed during compounding.

Dosage:

- Biotronic® Top3 S is intended for feed application for all livestock and aquaculture species.
- Inclusion rate is 500 g/ton compound feed in EU market
- Dose might be increased up to 1 kg/t of feed (outside EU)

Packing:

Biotronic® Top3 S is available as 25 kg alu bag.*

* depending on production site

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