

BACTOFORM M

Broad-Spectrum Antimicrobial for Fermentation

Microbial contamination, especially by lactic acid bacteria like *Lactobacillus*, poses a significant barrier in industrial ethanol fermentation. Bacterial proliferation results in the production of organic acids, diminished yeast viability, slower fermentation rates, and significant drops in ethanol yield. Effective management of bacterial contamination is crucial to ensure stable fermentation performance, prevent blocked fermentation, and optimize ethanol yield.

Bactoferm M is a highly concentrated broad-spectrum antimicrobial formulation. This blend is designed based on collected microbial isolates from diverse fermentation environments, enabling effective control of a wide range of undesirable bacterial species at very low dosage levels.

Mode of Action

Bactoferm M effectively suppresses the growth of *Lactobacillus*, *Bacillus*, and other acid-producing bacterial species responsible for fermentation inefficiencies. By limiting bacterial growth, the product protects yeast health, minimizes lactic acid formation, and stabilizes fermentation performance.

Product Key Benefits

- Minimize loss of alcohol during fermentation in the presence of lactic acid bacteria.
- Increase yeast counts/viability during propagation and fermentation
- Save up to 4 % of ethanol loss, equivalent to >10 liters per ton of feedstock by preventing stuck fermentation caused by lactic acid bacteria.
- Promotes stable and consistent fermentation.
- Reduction in frequency of shutdowns required for CIP

Product Application

Bactoferm M is designed for use in industrial fermentation processes to control bacterial contamination and maintain stable yeast performance.

Application Stage

Yeast propagation, pre-fermentation or fermentation.

Dosage

0.5-2 ppm (Depending on the contamination)

Packaging

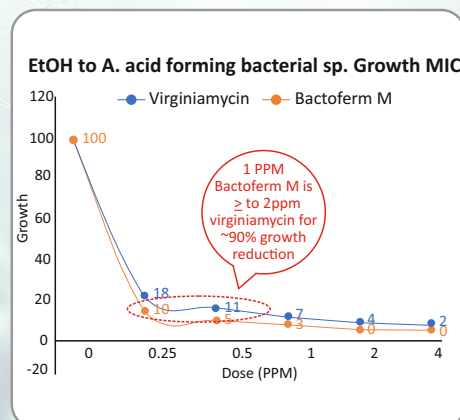
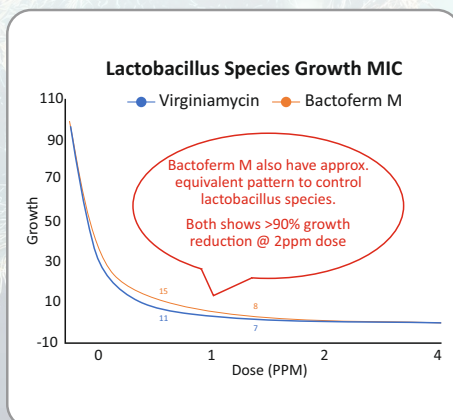
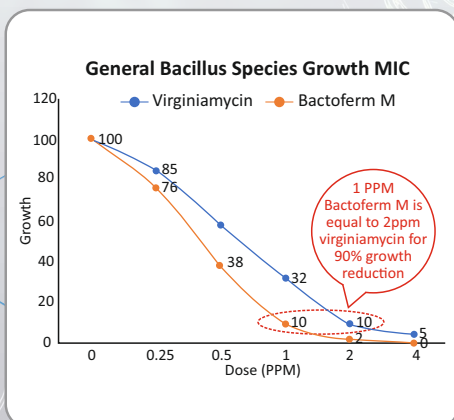
Small water-soluble packs (100 g) designed for convenient dosing.

Product Handling

- Handle the product using standard industrial safety precautions.
- Avoid inhalation of dust or aerosols during handling.
- Use suitable personal protective equipment (gloves, protective clothing, and eye protection).
- Follow MSDS safety instructions for detailed handling guidelines.

Performance Efficiency

Bactoferm M is an inimitable antimicrobial formulation that has been found to be a useful product for limiting the growth of such undesirable microbes. The performance check of the product on different microbial species is depicted by the study as summarized in the graph.



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