Lactoside 247™

Powdered Antimicrobial Blend

LACTOSIDE 247™ is an antimicrobial product for use in ethanol fermentations. It contains a proprietary combination of virginiamycin and penicillin that inhibit the broadest range of common fermentation contaminants, i.e. *Lactobacillus sp*.

CHARACTERISTICS

Synergistic effect of multiple antibiotics

- Greater inhibition at lower levels than other products
- Prevents the development of resistant and/or tolerant contaminants due to multiple modes of action

Eliminating contaminating bacteria:

- Prevents competition for glucose
- Reduces yeast stress
- Increases alcohol yields

DESCRIPTION

- LACTOSIDE 247™ is a light brown, free flowing powder in a water soluble bag containing virginiamycin, penicillin, dextrose and zinc sulfate
- Color may vary per batch, but in no way affects the performance of the product

APPLICATIONS

LACTOSIDE 247™ antimicrobial is used as a bacterial growth inhibitor and is intended for use in ethanol fermentations.

- Stable over a broad pH range (3.5-5.8). However, in practice, this product is most effective at 4.0-4.5
- LACTOSIDE 247™ is stable at temperatures of up to 115˚F (46˚C). This product is most effective at temperatures of less than 100˚F (38˚C)
- LACTOSIDE 247™ can be added to the yeast propagator or to the fermentor at the beginning, middle, or end of fermentation

PACKAGING

- Water soluble bags (500 g or 250 g) in 25 kg (55 lb) boxes

DIRECTIONS FOR USE

LACTOSIDE 247™ antimicrobial should be added during the fermentation phase of ethanol production. The typical use rate is 1 to 2 ppm, (1 to 2 g per 1,000 L) or 3.8-7.6 mg per gal. Do not exceed 2.7 ppm (10.3 mg per gal) during the fermentation cycle. See your Lallemand Biofuels & Distilled Spirits Technical Representative for more details.

STORAGE & HANDLING

LACTOSIDE 247™ should be stored in a dry area away from extreme temperature variations and moisture for maximum stability. When stored under these conditions, the product is stable for 18 months from the date of manufacture.

LALLEMAND BIOFUELS & DISTILLED SPIRITS

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