

# Lactoside™ V

## Fermentation Antimicrobial

Lactoside V antimicrobial is intended for use in fuel ethanol fermentations. The active ingredient is virginiamycin, which controls a wide range of fermentation contaminants known to be detrimental to ethanol production. Lactoside V antimicrobial is especially effective in controlling gram-positive bacteria, such as *Lactobacillus sp.*

### CHARACTERISTICS

Inhibits protein synthesis

- in both actively growing and static bacterial cells

Eliminates contaminating bacteria:

- prevents competition for glucose
- reduces yeast stress
- increases alcohol yields

### INGREDIENTS

Light brown free flowing powder in a water-soluble bag consisting of virginiamycin

### APPLICATIONS

Lactoside V antimicrobial is used as a bacterial growth inhibitor and is intended for use in fuel ethanol fermentations

- can be used to treat liquids up to 77°C (170°F)
- suitable for both low pH and high temperature fermentations
- should be added during the fermentation phase of alcohol production

### PACKAGING

Packaged in water-soluble bags 500 g or 250 g (1.10 lb or 0.55 lb) packaged in 25 kg (55.12 lb) boxes

### DIRECTIONS FOR USE

Lactoside V antimicrobial should be added during the fermentation phase of ethanol production. The typical use rate is 0.10 - 3.0 ppm, (0.10 - 3.0 g per 1000 L) or 0.38 - 11.4 mg per gal. Do not exceed 6.0 ppm (22.7 mg per gal) during the fermentation cycle.

Contact your Lallemand Biofuels & Distilled Spirits Technical Representative for more details.

### STORAGE & HANDLING

In order to maintain the integrity of the water-soluble bags, the product 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.

### REGULATORY & CERTIFICATIONS

CFIA approved

### PRECAUTIONS

Avoid inhaling antimicrobial dust and avoid eye or skin contact. In case of contact, wash thoroughly with soap and water. In case of irritation or allergic symptoms, seek medical attention. People with sensitivity to antibiotics should refer to the SDS.

This product is not intended nor suitable for use in animal feed.

Color may vary per batch, but in no way affects the performance of the product.