

# TRI-PURIFY

*A natural dietary feed supplement for pre-weaned calves*

## RESEARCH-SUPPORTED FEATURES AND BENEFITS

Provides pure, natural essential oils selected specifically for the young animal

- Strong anti-bacterial effects (cleansing action) which improve the natural immune system

Contains nutraceuticals, Mannan Oligosaccharides (MOS), a fermentable carbohydrate environment of the digestive tract

- Provides metabolites to feed beneficial bacteria shown to improve animal performance and improve intestinal microflora

Contains live lactic-acid forming bacteria (LABs) and *Saccharomyces cerevisiae boulardii*

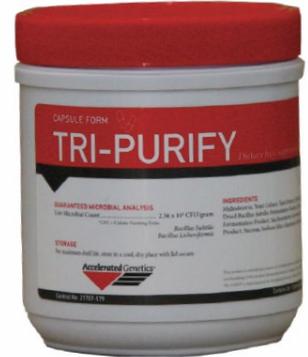
- Enhances the environment of the digestive tract and promotes gastrointestinal microflora improving average daily gain

Utilizes state-of-the-art package with low moisture carrier and moisture scavengers

- Guaranteed LIVE product with 12-month shelf life

Capsule form (blue color)

- Administered easily with any standard calf balling gun



## DIRECTIONS FOR USE

Administer 1 capsule –

- At 3 days of age
- Upon receipt of incoming calves
- During periods of or after digestive upsets/dyspepsia (scours)  
In severe cases, repeat after 12 hours, if needed
- Do not administer Tri-Purify more than 2 consecutive days

**PRECAUTION** – Tri-Purify is a nutraceutical and direct-fed microbial to be administered at specific times or as needed for digestive upsets. Tri-Purify is not intended for continuous use. For best results, administer after fluid or feed intakes. Tri-Purify should not be administered before 3 days of age.

## AVAILABLE PACKAGE SIZE

36 ct. jar  
Case = 8 jars  
Shipper case = 32 jars (4 – 8ct. cases)

## STORAGE

Store in a cool, dry area with lid secure for maximum stability

## RESEARCH



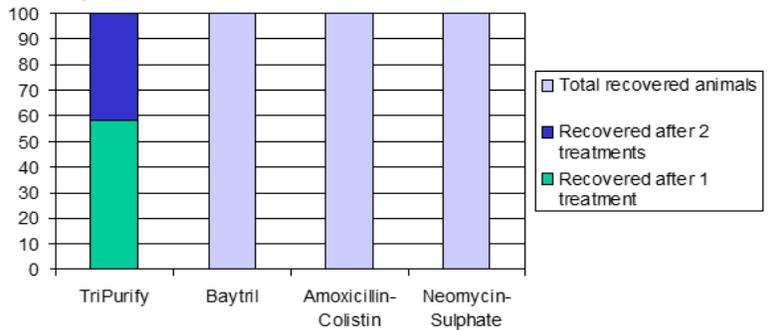
*Clostridium perfringens*  
*Staphylococcus aureus*, -b and -a  
*E. Coli*  
*Salmonella typhimurium*



*Bacillus licheniformis*  
*Bacillus subtilis*

*Bacillus* produce antimicrobial peptides called bacteriocins that kill or inhibit the growth of other bacteria like *Clostridium perfringens*, *Staphylococcus aureus*, *E. coli* or *Streptococcus* spp.

Tri-Purify Trial Results



**Setup**  
Suckling calves with *E. Coli* diarrhea

**Parameters**  
1. Number of recovered animals  
2. Treatment period

**Treatments**  
Group 1 – Tri-Purify capsules; 1 treatment/calf  
In case study, repeated after 6-8 hours  
Group 2 – Baytril 2.5%; 5 mg/kg for 2 days  
Group 3 – Amoxicillin-Colistin; 1 ml/kg for 3 days  
Group 4 – Neomycin Sulphate; 18 mg/kg for 5 days

Both Tri-Purify capsules and the antibiotics used cured 100% of the animals infected with diarrhea. The effects of calves administered Tri-Purify capsules were achieved much quicker than with antibiotic treatment. The calves in the trial group were continuously fed milk. No electrolytes were fed additionally. The calves treated with Tri-Purify capsules were much less dehydrated and growth and weight gain were continuous even during the infection. Summary, Tri-Purify protects the villi against pathogens resulting in a greater nutrient absorption. Fewer antibiotic treatments are needed to raise calves reducing cost of production.

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