

DUODECIM (do-o-d-c-um)

Clostridium perfringens can cause abomasal bloat & sudden death in milk-fed calves.

Duodecim is a blend of sodium salts of fatty acids and direct-fed microbials to be added to the milk of preweaned calves.

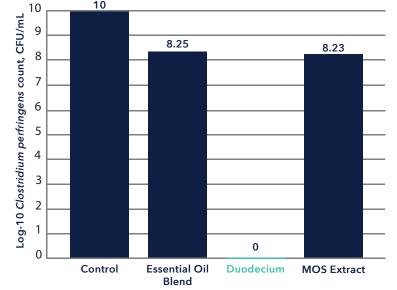
Transmission electron microscopy of Clostridium perfringens



Viable Clostridium perfringens



Killed Clostridium perfringens in the presence of Duodecium



*Data reported after 24 hr culture. Duodecium and MOS extract were tested at 0.5 or 1 mg/mL and Pure Essential Oil Blend tested at 0.0125 and 0.025 mg/mL.

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Duodecium Inhibits Growth of Clostridium Perfringens in Milk Culture



A blend of sodium salts of fatty acids and direct-fed microbials to be added to the milk of preweaned calves.

GUARANTEED ANALYSIS

Dry Matter (min)	95%
Fat (min)	65%
Bacillus subtilis (min) 200 billion C	FU/lb

DIRECTIONS FOR USE

Finished Feed or Milk Replacer:

- Add 1 to 8 kg (2.2 to 17 lbs) per ton On-farm:
- Supplement 1 to 4 grams per head per day.

INGREDIENTS

Sodium Salts of Fatty Acids, Dried *Bacillus subtilis* Fermentation Product, and Butylated Hydroxytoluene (preservative).

PACKAGING & STORAGE

Available in:

- 50 lb bag (#5031)
- 10 kg bucket (#5032)

Store in a cool, dry place. Keep tightly closed and minimize exposure to moisture.



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