

Microbial supplement for ruminants. Provides high levels of microorganisms, including rumen / intestinal origin bacteria, live yeast, digestive enzymes and yeast cell walls.

Contains a source of live (viable) naturally occurring microorganisms.

GUARANTEED ANALYSIS: (minimum per pound)

Live Yeast Count (*Saccharomyces cerevisiae*):

1.6 Trillion (1.6×10^{12}) colony forming units

Live Bacteria Count264 Billion (2.64×10^{11}) colony forming units
(*Propionibacterium freudenreichii*, *Lactobacillus acidophilus*, *Lactobacillus casei*, *Enterococcus faecium*, *Lactobacillus lactis*, *Pediococcus acidilactici*, *Bacillus subtilis*, *Bacillus licheniformis*)

Amylase (*Aspergillus oryzae*, *Aspergillus niger*): 320,000 units (One unit is amount of enzyme hydrolyzing 5.26 mg of starch per hour at 40° C and pH 5.0 under conditions of assay.)

Cellulase (*Trichoderma longibrachiatum*, *Aspergillus oryzae*, *Aspergillus niger*): 64,000 units (One unit is the amount of enzyme producing a relative fluidity change of 1 of carboxymethyl cellulose substrate per 5 minutes at 40° C and pH 4.5 under conditions of the assay.)

B glucanase (*Trichoderma longibrachiatum*): 20,000 units (One unit is amount of enzyme producing 1 nmol of reducing sugars as glucose per second at 50° C and pH 4.8 under conditions of assay.)

Hemicellulase (*Paenibacillus lentus*): 160,000 units (One unit is the amount of enzyme producing 0.72 mcg of reducing sugars as mannose from a mannose-containing substrate per minute at 104° F and pH 7.0 under conditions of the assay.)

Lipase (*Aspergillus oryzae*): 4,800 units (One unit is the amount of enzyme that releases 1 micromole of fatty acids per minute at 37° C and pH 7.0 under conditions of the assay.)

Xylanase (*Trichoderma longibrachiatum*): 80,000 units (One unit is the amount of enzyme producing 1 nmol of reducing sugars as xylose per second at 50° C and pH 5.3 under conditions of the assay.)

Protease (*Aspergillus oryzae*, *Aspergillus niger*): 160,000 units (One unit is the amount of enzyme hydrolyzing 1 mcg of hemoglobin as tyrosine per minute at 40° C and pH 4.7 under conditions of the assay.)

INGREDIENTS:

Calcium carbonate, active dry yeast, yeast culture, dried *Aspergillus oryzae* fermentation extract, dried *Aspergillus niger* fermentation extract, dried *Paenibacillus lentus* fermentation extract, dried *Trichoderma longibrachiatum* fermentation extract, dried *Propionibacterium freudenreichii* fermentation product, dried *Lactobacillus acidophilus* fermentation product, dried *Lactobacillus casei* fermentation product, dried *Enterococcus faecium* fermentation product, dried *Lactobacillus lactis* fermentation product, dried *Pediococcus acidilactici* fermentation product, hydrolyzed yeast, sodium silico aluminate, dried *Bacillus subtilis* fermentation product, dried *Bacillus licheniformis* fermentation product.

RECOMMENDED USES:

Feed to all ruminants such as high producing dairy cows, dry and transition cows, incoming feedlot steers, calves, lactating goats and sheep, during ration changes, pre- and post-partum. Especially useful for rations containing lower quality forages or high in soluble carbohydrates.

DIRECTIONS

Top dress, mix in grain, soft feeds or total ration at following rates per head daily:

Dairy Cattle:

All component fed (top-dressed) lactating cows = 1/2 ounce;

- Lactating cows greater than 70 pounds daily production or less than 150 days in milk = 1/2 ounce;
- Lactating cows less than 70 pounds daily production and greater than 150 days in milk = 1/4 ounce;
- Transition cows (approximately 14 days pre-partum to 7 days post-partum) = 1 ounce;
- Short term production challenges = 1 ounce for 7 to 10 days.

Calves (milk fed and weanling) = 1/8 - 1/6 ounce fed with grain ration

Growing Cattle, Adult Beef Cattle, Small Ruminants = 1/4 ounce

STORAGE: Keep closed between uses. Store in cool, dry place.

PRODUCT CODE

- GN-01229** 11 pound pouches (4 / case)
GN-00225 50 pound bags (1 / case)
GN-00225 1 ton pallet (40 bags, 50 pounds each)



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