

HIT THE JACKPOT[®] OF LIVESTOCK PROBIOTICS

- Natural, soil derived microbes (bacteria)
- Non-pathogenic
- Beneficial to the digestive system
- Synergistic with many nutritional supplements
- Simple and easy to use liquid product with diverse use capabilities
- Good preventative measure for animal health and immunity

APPLICATION RATES

Animal	Rate for Small Herds, Flocks & Show Animals
Poultry	1 tsp (5 cc) / head / day
Small Ruminants	0.5 fl. oz. (15 cc) / head / day
Large Ruminants	1 fl. oz. (30 cc) / head / day
Equine	1 fl. oz. (30 cc) / head / day
Show Livestock	Contact your Bio S.I. Representative for more recommendations to fit your needs and scenario.
Large Herd or Confined Feedlot	
300 - 400 Weight Cattle:	Drench 20 cc 1st day and 15 cc in feed for the following 3 - 5 days.
400 - 500 Weight Cattle:	Drench 25 cc 1st day and 20 cc in feed for the following 3 - 5 days.
600 + Weight Cattle:	Drench 30 cc 1st day and 25 cc in feed for the following 3 - 5 days.
Water Medicator:	Medicator rate in barns with a typical 1:128 or 1 oz./ gal.



ACTIVE INGREDIENTS

LIQUID FERMENTATION PRODUCTS OF:

<i>Bacillus licheniformis</i>	10.0 million CFU/ml
<i>Bacillus subtilis</i>	3.5 million CFU/ml
<i>Lactobacillus acidophilus</i>	3.0 million CFU/ml
<i>Bacillus pumilus</i>	2.0 million CFU/ml
Minimum 10 million CFU/ml	

THE SCIENCE BEHIND JACKPOT® DIRECT-FED MICROBIAL

MICROBIAL SPECIES	*MODE OF ACTION
<i>Anthrobacter globiformis</i>	Biodegrades diverse types of pollutants.
<i>Bacillus species</i>	Secretes metabolites that prevent pathogen infection.
<i>Pseudomonas species</i>	Produces metabolites that act as antibiotics; competes aggressively with other microorganisms.
<i>Streptomyces griseoflavus</i>	Actively produces antibiotics; excellent agents for controlling various fungal & bacterial pathogens.
<i>Enterococcus faecalis</i>	Produces antimicrobial compounds; acts as probiotic to prevent diarrhea & improve animal health.
<i>Lactobacillus acidophilus</i>	Controlled studies have shown use as a probiotic can increase dry matter intake, daily feed conversion efficiency, digestibility of nutrients, growth rate improvement, immune system support, and antioxidant quality.

*based on peer reviewed publications

PROBIOTICS VS. PREBIOTICS

PROBIOTIC: "A live microbial feed supplement which beneficially affects the host animal by improving its intestinal microbial balance" This term is typically used to describe human supplements.

PREBIOTIC: "Compounds that promote the growth of gut bacteria (such as yeast cultures and oligosaccharides) but are not living organisms" Many often confuse this term on packaging and assume its the same thing.

DIRECT-FED MICROBIAL: "A source of live, naturally occurring microorganisms" These can be yeast, fungi, and/or bacteria.



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