

RSG

**Prime**

## LIVESTOCK PROBIOTICS



Naturally occurring live microbes

Non-pathogenic

Improves digestive efficiency

Competitive exclusion

Simple and easy to use liquid product with diverse use capabilities

Good preventative measure for animal health + immunity

### ACTIVE INGREDIENTS

LIQUID FERMENTATION PRODUCTS OF:

*Bacillus licheniformis*

*Bacillus subtilis*

*Bacillus pumilus*

*Lactobacillus acidophilus*

Minimum 10 million CFU/ml



# THE SCIENCE BEHIND



## HOW ARE PROBIOTICS & PREBIOTIC PRODUCTS DEFINED?

### PROBIOTIC:

"A **live** microbial feed supplement which beneficially affects the host animal by improving its intestinal microbial balance".

### PREBIOTIC:

"Compounds that promote the growth of gut bacteria (such as yeast cultures and oligosaccharides) but are **not living** organisms".

### DIRECT-FED MICROBIAL:

"A source of **live**, naturally occurring microorganisms" These can be yeast, fungi, and/or bacteria.

| 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. |