

Pro Bovine Max™

PBM

Probiotic Cattle Feed Supplement

TECHNICAL DATA SHEET

BioSphere AgriTech

PRODUCT OVERVIEW

BioSphere AgriTech Pro Bovine Max™ is a cattle feed supplement that combines beneficial probiotic microbes with carefully selected biotic enhancing supplements to enhance cattle digestion, nutrient absorption, and overall health. When properly utilized, BioSphere PBM can increase daily weight gain through digestive efficiency and reduce the potential for infection or disease by improving immune functionality in cattle.

BioSphere PBM can be administered through various methods, including water troughs, as a feed additive, or by oral drench.

MICROBIAL SPECIFICATIONS & KEY BENEFITS

ACTIVE ORGANISMS	CONCENTRATION
<i>Bacillus Mucilaginosus</i>	5.8×10^7 cfu/g
<i>Bacillus Subtilis</i>	2.1×10^9 cfu/g
<i>Bacillus Megaterium</i>	6.1×10^7 cfu/g
<i>Bacillus Licheniformis</i>	6.1×10^7 cfu/g
<i>Bacillus Simplex</i>	6.1×10^7 cfu/g
<i>Paenibacillus Polymyxa</i>	4.9×10^9 cfu/g
<i>Azobacter Chroococcum</i>	6.7×10^8 cfu/g
<i>Pseudomonas Fluorescens</i>	9.0×10^7 cfu/g
<i>Lactobacillus Acidophilus</i>	1.2×10^9 cfu/g
<i>Bifidobacterium Lactis</i>	4.0×10^9 cfu/g
Amino Acids	4.5%
Appearance	Fine white powder
Solubility	100% in water

#	KEY BENEFITS
1	Enhances microbial diversity in the cattle gut, promoting a balanced microbiome
2	Supports healthy digestion and improved nutrient absorption
3	Optimizes feed efficiency, improving the feed-to-weight-gain ratio
4	Boosts immune response to better combat disease and infection
5	Increases growth rates and overall vitality
6	Ideal for both organic and conventional cattle rearing operations
7	Supports rumen health and helps maintain optimal digestive pH balance
8	Aids recovery from digestive upsets and reduces incidence of scours
9	Improves body condition score and promotes healthier coat quality
10	Reduces reliance on antibiotics through natural immune system enhancement

**BIOLOGICAL
ACTIVE
ORGANISMS**






Fluorescence microscopy




Bacillus spp.


The dominant organism class present in BioSphere PBM at up to 4.0×10^9 cfu/g

DIRECTIONS FOR USE

 Water Trough	 Feed Additive	 Oral Drench
1. Dissolve BioSphere PBM in water at 0.003 g per pound of live weight per head.	1. Mix BioSphere PBM directly into feed at 0.003 g per pound of live body weight.	1. Wet 0.003 g per pound of live body weight in 30 mL of water.
2. Mix thoroughly to ensure even distribution.	2. Wet the powder with minimal water and spray evenly over the feed.	2. Administer as an oral drench as needed.
3. Treat troughs weekly to maintain microbial availability.	3. Turn the feed to evenly disperse BioSphere PBM throughout.	3. Use during receiving or weaning of cattle to maximize effectiveness.
4. Note: Cattle drink ~7 gal/100 lbs. Account for herd size and trough volume.	4. Apply weekly to support ongoing microbial activity in the gut.	
5. You cannot overdose BioSphere PBM — maximize cost-benefit when applying.		
6. If an auto-float is installed, consider turning it off while product is in the trough.		

RECOMMENDED APPLICATION RATES

 Cattle Growth & Maintenance	 Weaning & High Stress	 Lactating Cows
Weekly Dose: 0.003 g / lb live weight / head	Weekly Dose: 0.006 g / lb live weight / head	Weekly Dose: 0.003 g / lb live weight / head
<i>Apply via water trough or feed. Maintain weekly schedule.</i>	<i>Double dose during weaning, illness recovery, or high-stress periods.</i>	<i>Supports nutrient demands of lactation and improves milk quality.</i>

 **Storage:** Store BioSphere PBM in a cool, dry place. Keep tightly sealed and avoid direct sunlight.