

ACTIVE INGREDIENTS

LIQUID FERMENTATION PRODUCTS OF:

Bacillus licheniformis	. 6.0 million	CFU/ml	(CFU/g)
Bacillus amyloliquefaciens	4.0 million	CFU/ml	(CFU/g)
Bacillus pumilus	2.0 million	CFU/ml	(CFU/g)
Bacillus subtilis	2.0 million	CFU/ml	(CFU/g)
Streptomyces griseus	0.2 million	CFU/ml	(CFU/g)

0.06% humic acids derived from leonardite

MEET FLOOR-MATE®

Soil-derived microbes and metabolites naturally break down the proteins, salts, and other materials found in urine and fecal matter that cause unpleasant odors such as ammonia.

By competitive exclusion, Floor-Mate® reduces the pathogen load.

Use in livestock pens, barns, horse stalls, and anywhere else animals are held.

WHAT IS COMPETITIVE EXCLUSION?

This category is based upon the principal of limiting the available space for pathogenic bacteria to settle because the space is already taken up by beneficial bacteria. This results in less incidence of illness from *Salmonella*, *E. coli*, etc.

Competitive exclusion is also attributed with the reduction of morbidity and mortality among other detrimental health factors in Poultry production systems.



THE SCIENCE BEHIND BIO S.I. FLOOR-MATE®

Bio S.I. Floor-Mate® contains a proprietary blend of several Bacillus species. Bacillus species are gram positive bacteria, form endospores in the environment, and are resistant to radiation, desiccation, high temperatures, chemical disinfectants, and nutrient stress. This provides a competitive advantage over many gram-negative non-endospore forming bacteria, sensitive to environmental stress, such as: Escherichia coli, Fusobacterium necrophorum, and Dichelobacter nodosus.

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Anthrobacter globiformis

Bacillus species

Pseudomonas species

Streptomyces griseoflávus

Enterococcus faecalis

PROFILE IN THE SOIL ENVIRONMENT

Persists in the soil environment

Resistant to environmental stress; persists for decades

Adapts to environmental stress

Persists in the soil environment

Resistant to environmental stress *MODE OF ACTION

Biodegrades diverse types of pollutants.

Secretes metabolites that prevent pathogen infection.

Produces metabolites that act as antibiotics; competes aggressively with other microorganisms.

Actively produces antibiotics; excellent agents for controlling various fungal & bacterial pathogens.

Produces antimicrobial compounds: acts as probiotic to prevent diarrhea & improve animal health.

APPLICATION RATES

First Application

Use

Poultry Houses

Horse Stalls &

Show Animals

4 gallons/25,000 ft added to spray solution; spray evenly over bare floor & litter

16 fl. oz./500 ft (roughly 10 stalls); spray evenly over

floor/bedding and walls, taking care to treat around troughs &

watering vessels

Surface treatment: 16 fl. Confined oz./500 ft; spray evenly over Animals floor, bedding, slats, and walls

> Wash-down water: Mix 2 gallons into wash-down water

Maintenance Application

1 gallon/25,000 ft, weekly

8 fl. oz./1,000 ft (roughly 10 stalls), weekly

Surface treatment: 8 fl. oz./1,000 ft; spray evenly over floor, bedding, slats and walls, weekly

Wash-down water: Mix 1 gallon into wash-down water. weekly

Contact your Bio S.I. representative to discuss Bio S.I.'s

Arena Program

Shallow Pits 1 quart/1,000 gallons of

storage of flush pan or pit

Deep Pit 1 gallon/30,000 gallons Livestock Facilities

Arenas

Large Lagoons 1 gallon/75,000-100,000

1 quart/1,000 gallons of storage of flush pan or pit

1 gallon/30,000 gallons

1 gallon/75.000-100.000

*based on peer reviewed publications

