



Information Sheet

Bio-Mos



Figure 1



Information on Bio-Mos.

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Practical Effects of Feeding Bio-Mos:

- Balances microbial population
- Healthy weight gain
- Herd health and productivity
- Addresses shipping stress
- Pre-weaning livability
- Post-weaning growth and development
- Reduces use of antibiotics and therapeutic treatments
- Effective in milk replacers and starter feeds
- Natural meat, milk, and egg marketability

What is Bio-Mos?

Bio-Mos is a *prebiotic*-type product from Alltech. It is a feed additive that is derived from yeast cell walls (usually from a specific strain of *Saccharomyces cerevisiae*). The cell wall of yeast is made up of many protein, carbohydrate, and lipid-based components, including saccharide (sugar) structures called “mannan oligosaccharides.” Mannan oligosaccharides (**MOS**) protrude from yeast cell walls and are involved in cell-to-cell communication. MOS is considered to be a *prebiotic* because it is not broken down by the host animal’s digestive enzymes but can be used as a “food” source for beneficial bacteria that inhabit the natural flora of the digestive tract.

How does Bio-Mos work?

Bio-Mos does two things in the gut. First, it binds to the attachment sites (specifically, the Type I fimbriae; Figure 1) on certain pathogens (like *E. coli* and *Salmonella*) and prevents the bacteria from docking to receptors on the host animal’s epithelial gut lining. In doing so, it reduces the pathogens from causing potential damage to the host animal’s digestive tract which can lead to disease. Second, it provides a general stimulation of the immune system by evoking a direct antibody response against invading pathogens.

Is Bio-Mos a medication?

No. Bio-Mos is a natural feed additive that may serve well as a natural alternative to feeding antibiotics. Bio-Mos can be used in natural meat, milk, and egg programs.

What can Bio-Mos be fed to?

Dairy cows, beef cows, calves, pigs, sheep, goats, camelids, poultry, horses, dogs, cats, rabbits, and aquaculture.

What feeds does Ranch-Way offer with Bio-Mos?

Milk Replacer: *NEW!* Super Start All-Milk 22-20 w/Bio-Mos (non-medicated)

Cattle Feeds: *NEW!* 15% Calf Creep w/Bio-Mos and R-O-M 12-12 Mineral w/Bio-Mos

Horse Feeds: Defiance Sound Starch, Sound Starch Senior, and Vital Edge Pelleted Mineral

Pet Foods: Tuffy’s NutriSource, PureVita, and Natural Planet Organics Dog and Cat Food

Supplements: A. A. Bloom Stock Conditioner and A.A. Star*Shine

Other: Any feeds we make can have Bio-Mos added to it on a custom, 1-ton basis!



Pictures and information

available at:

www.alltech.com

www.bio-mos.com

WWW.RANCH-WAY.COM
1-800-333-7929



NEW!
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15% Calf Creep w/Bio-Mos
(#R2040CP)

Ranch-O-Min 12-12 Mineral w/Bio-Mos
(#M2890AP)

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