

ActiveMOS

Effective Replacement for Antibiotic Growth Promotant

ACTIVEMOS IS A FUNCTIONAL FEED INGREDIENT RICH IN ACTIVATED MANNAN-OLIGOSACCHARIDES (MOS) AND PARTIALLY EXPOSED B-1,3/1,6- GLUCAN, EXTRACTED FROM A SPECIALLY SELECTED STRAIN OF YEAST

FUNCTIONAL CARBOHYDRATES FOR INTESTINAL HEALTH AND STRONG IMMUNE SYSTEM

1. Acts as a substrate for beneficial bacteria, promoting its growth in the intestinal mucosa
2. Has affinity for gram-negative bacteria, agglutinating these bad microorganisms and preventing its adhesion to intestinal mucosa,
3. Enhances nutrient absorption, and prevents wet droppings or scouring
4. Strongly support gut and immune defenses

With the restricted rules for the use of antibiotics in animal production worldwide, natural alternatives are being tested in order to maintain intestinal health and animal performance at all stages of poultry production. *Saccharomyces cerevisiae* derivative products are extensively applied in animal nutrition with proven benefits. Studies have shown that mannan-oligosaccharides (MOS) efficiency is not directly dependent on the percentage of MOS present in the product, but essentially on its production process, which is essential to ensure adequate MOS exposure and functionality.

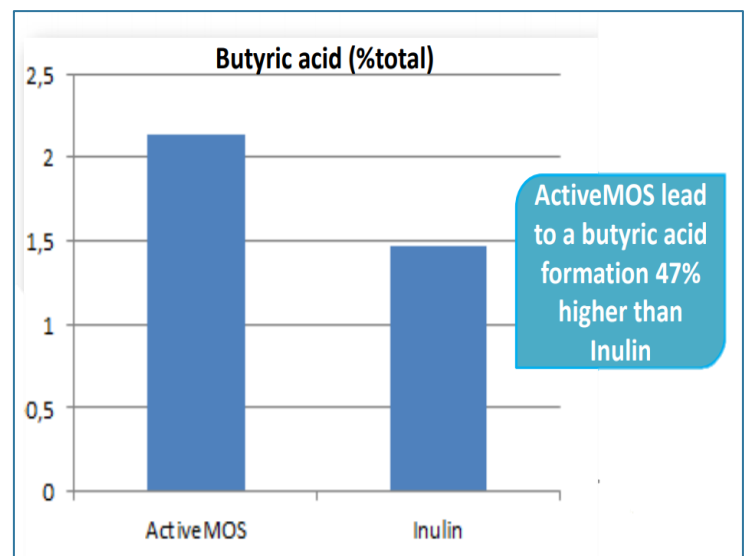
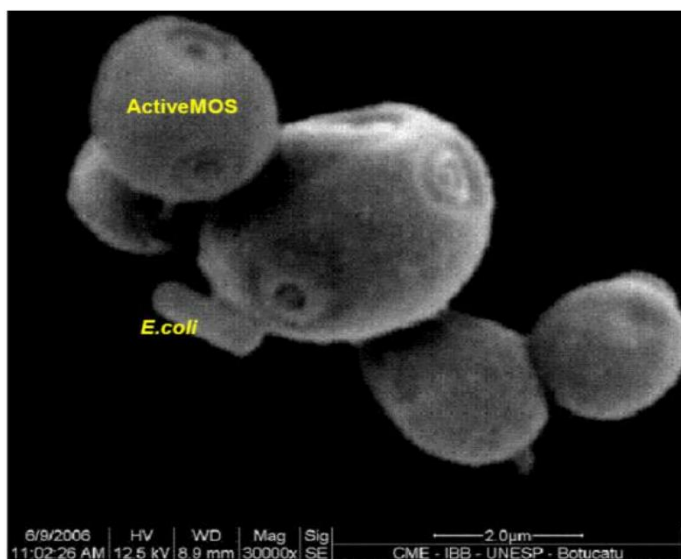
ActiveMOS Product Information

Manufacturer:	Biorigin, Brazil
Packaging:	25kg per bag
Inclusion Rate:	500gms to 2kg/ ton of feeds
Shelf Life:	24 Months



ACTIVEMOS: THE KEY SOLUTION IN GROWING HEALTHIER ANIMALS

STRONGER GUT DEFENSE: Beneficial bacteria in the gut such as *Lactobacillus* and *Bifidobacterium* can use ActiveMOS carbohydrates as energy source for growth, and in the process, they produce organic acids and reduce gut pH that further impair of undesirable bacteria. These beneficial bacteria present in the intestine also compete with harmful bacteria for nutrients and binding sites. In addition, some important Gram-negative bacteria including *E. coli* and *Salmonella* spp. present MOS affinity, and ActiveMOS is capable of binding them, avoiding their adhesion to intestinal mucosa, maintaining gut health.



STRONGER IMMUNE DEFENSE: There are several studies that MOS can improve immune defense system of the animal (Mannose receptor on macrophages recognizes mannans Davis et al., 2004; TLR4 also recognizes MOS and induce innate response Sheng et al., 2006; Tada H, Nemoto E, Shimauchi H, Watanabe T, Mikami T, Matsumoto T, et al. 2002).

On the study conducted by Ghasemiana and Jahaniana ActiveMos significantly improved NDV, IBV and SRBC titers.

