SWINE-FEED DIRECT-FED MICROBIAL

SWINE-FEED CONTAINS A COMBINATION OF CONCENTRATED Viable CULTURE PREPARATIONS OF BACILLUS LICHENIFORMIS, BACILLUS SUBTILIS, ENTEROCOCCUS FAECIUM MICROBIALS AND SACCHAROMYCES CEREVISIAE FERMENTATION SOLUBLES

WHY FEED BENEFICIAL BACTERIA TO SWINE?

Beneficial bacteria play an important role in swine growth by:

- Ensuring optimal pH conditions for the endogenous enzyme function, thereby facilitating an optimal environment for feed digestion;
- Producing growth factors that stimulate the growth of beneficial bacteria like Bifidobacteria;
- Protecting the gastrointestinal tract by producing antibacterial substances that inhibit the proliferation of pathogens;
- Stimulating normal gut development through the production of volatile fatty acids;
- Promoting gastrointestinal health by preventing the colonization of pathogens and stimulating the development of immunity.

BENEFITS OF SWINE-FEED MOS (mannanoligosaccharides)

- Demonstrated to have greater pathogen binding capacity than leading MOS competitive product. Thus fewer pathogens colonize the gastrointestinal tract, thereby maintaining a healthier gut ecosystem;
- Beneficial modulation of the immune system, resulting in increased immunoglobulin synthesis, improved and more persistent titre levels post vaccination;
- Improved animal performance. Less energy spent repairing the gastrointestinal tract and dealing with the stress induced by pathogenic proliferation;
- Improved gut health results in longer villi and thinner gastrointestinal membranes. This provides a greater surface area for nutrient absorption and less of a barrier to nutrients entering the blood flows from the gut.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Description</th>
<th>Off-white / beige, free-flowing powder</th>
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<tbody>
<tr>
<td>Packaging</td>
<td>10, 20, 50kg pails</td>
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<tr>
<td>Ingredients</td>
<td>Saccharomyces cerevisiae fermentation solubles, Bacillus licheniformis, Bacillus subtilis, and Enterococcus faecium, fermentation products, sodium silico aluminate</td>
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<tr>
<td>Guaranteed Analysis</td>
<td>Saccharomyces cerevisiae: minimum 1,760 billion cells/kg Total Microbial Count: minimum 2,129 billion CFU/kg</td>
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<tr>
<td>Shelf Life</td>
<td>Up to 12 months</td>
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<tr>
<td>Storage and Handling</td>
<td>DO NOT FREEZE! Store in a cool dry environment out of direct sunlight. See MSDS.</td>
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</tbody>
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SWINE-FEED consists of a probiotic derived from the cell wall of a single source of Saccharomyces cerevisiae (MOS). The polysaccharides obtained from the yeast cell wall consists of glucans, mannans, quitines, and galactans. The glucans are a group of d-glucose polymers with glycosidic linkages and 1,3 and 1,6 bonds. It also consists of probiotics containing Bacillus subtilis, Bacillus licheniform and Enterococcus faecium.

Saccharomyces cerevisiae is an important probiotec organism that helps modulate the pH of the caecum and colon, as well as stimulate the growth of beneficial fibre and lactic acid utilizing bacteria. This results in an increase in the number of beneficial bacteria in the caecum and colon, improved food conversion, and efficiency and reduction in the frequency of constipation in sows.

Instructions for use

Include SWINE-FEED at a rate of:

- 1kg per ton of feed in sow diets;
- 1kg per ton of feed in starter diets;
- 0.5kg per ton of feed in grower diets;
- 0.5kg per ton of feed in finisher diets.

For further information on application, contact your BIONETIX technical representative.

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