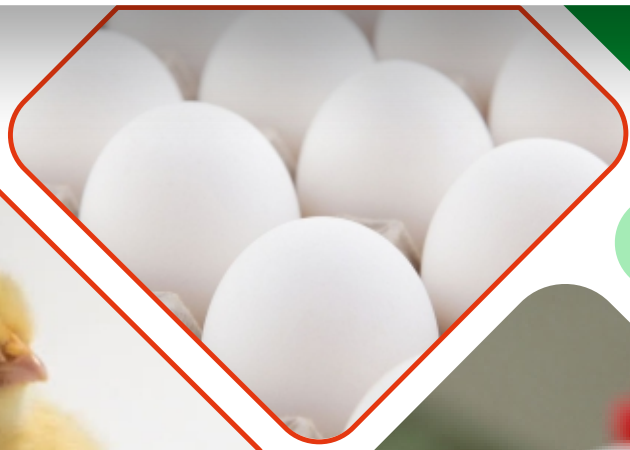


**P AVINNOVA™**



## Natural Growth Promoters (Feed Additives)

** Provet**

*Excellence through Innovation*

**FAMI<sup>Q</sup>S** Certified



# NAGRONEX<sup>®</sup> ESF

## Natural Growth Promoter



**NAGRONEX ESF** is a Synergistic Combination of Essential Oils such as Oregano, Camphor, Clove, Cinnamon & Eucalyptus and Short Chain and Medium Chain Fatty acids such as Valeric Acid, Butyric Acid, Ricinoleic Acid and Lactic Acid, Fortified with Curcuminates, Polyphenols and Xanthophylls in a suitable carrier with Antibacterial, Antiviral, Antifungal, Coccidiostatic and Anti-oxidant properties that Promote Performance and Productivity

### 2 WAY ACTION

#### GROWTH PROMOTION EFFECT

Helps in increasing the intestinal dimensions and the villus height/crypt depth ratio, which leads to a wider surface area for absorption of nutrients and electrolytes, thus combats villus atrophy and promotes intestinal integrity.

#### ANTIMICROBIAL EFFECT

Has both direct and indirect anti-microbial effects due to the synergistic interactions of its various active components.

##### DIRECT EFFECT

Phenols alter the cell wall of some bacteria and fungi resulting in water imbalance and cell death.

##### INDIRECT EFFECT

Helps in preventing viral replication by ensuring quicker renewal of the enterocytes, which creates a hostile environment to viral and coccidian development.

### ADVANTAGES

Reduces risk of enteric imbalances (such as diarrhoea), especially of young animals

Improves growth performance, including weight gain and feed conversion

Stimulates feed intake, increases productivity and reduces mortality

Better acceptance of feed ingredients with unpleasant taste (such as plant by products, protein-concentrates or mineral premixes)

Improves product quality (in terms of taste, colour or texture)

Reduces need to apply chemotherapeutics

Improves barn-climate including the reduction of unpleasant odour and toxic gases

No withdrawal period in most cases & no harmful residues in animal products

# NAGRONEX<sup>®</sup> ESF

Natural Growth Promoter



## BENEFITS

Acts as an anti-oxidant & acidifier

Significantly improves performance & production parameters like growth gain, laying efficiency, egg uniformity, feed conversion rate etc.

Aids in Positive Intestinal microflora modulation & Better Gut Health

Promotes Intestinal integrity & enhances immunity



Has excellent antimicrobial activity which helps in reduced risk of enteric disease

Improves feed palatability & feed intake

Stimulates endogenous enzyme secretion & digestion

Reduces mortality rate and protozoan infestations

Helps in improvement of stressful production situations

## RECOMMENDED USAGE

### FEED PREMIX

100 g per tonne of finished feed or as advised by a Nutritionist.

### ORAL LIQUID

100 ml - 300 ml per 1000 litres of drinking water or as advised by a Nutritionist.

## PRESENTATION

### FEED PREMIX

1 kg, 5 kg & 25 kg

### ORAL LIQUID

500 ml & 1000 ml



# NAGRONEX<sup>®</sup> SNB

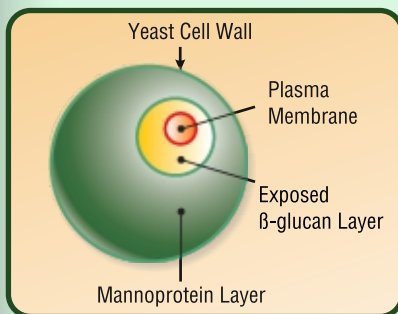
Novel and Sustainable SYNBIOTIC

**NAGRONEX SNB** is a novel and synergistic combination of purified yeast cell wall components of *Saccharomyces cerevisiae* (prebiotic), dried *Bacillus subtilis* (probiotic) fermentation product, postbiotics, zoo-technical additives and other factors that improve synergism in a suitable carrier.



**SYNBIOTICS** are synergistic or complementary mixtures, comprising live micro-organisms and substrate(s) that, confer a health benefit on the host.

**SYNBIOTICS** improve the survival, implantation and persistence of host, live microbial dietary supplements in the GIT, either by stimulating growth or by metabolically activating the health promoting bacteria.

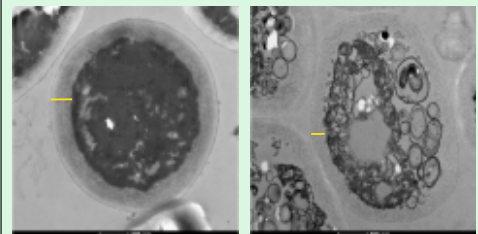


A prebiotic is a non-living, non-digestible feed ingredient, that beneficially affects the host by selectively stimulating growth and/or activity of a limited number of bacteria in the gut and potentially improving immune response.

*Saccharomyces cerevisiae* yeast extracts serve as alternatives to antibiotics for both growth promotion and disease resistance in poultry production because of their immunomodulating activity. The excellent efficacy is related to its composition because it serves as a source of both MOS and  $\beta$  glucans.

Ethanol Yeast fermentation conditions like High Temperature, High Alcohol content, Acidic pH, and Multiple cycles of Yeast recycling, etc., prepare the yeast to adapt to stress by producing more of MOS &  $\beta$  glucans resulting in a thicker cell wall.

Ethanol Yeast with Thicker Cell Wall

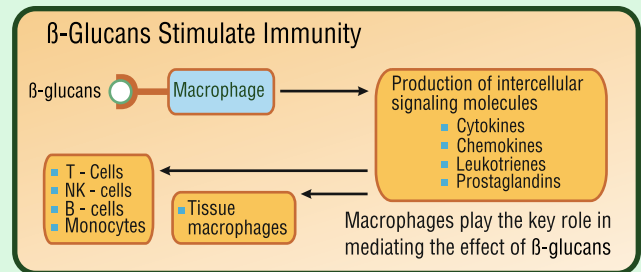
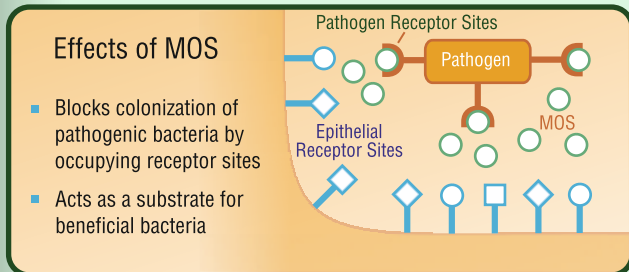


Ethanol Yeast

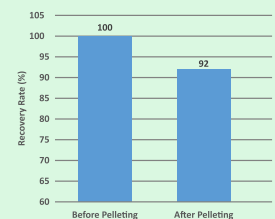
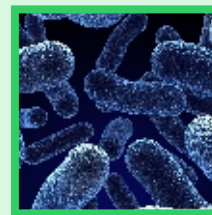
Primary Fermentation Yeast

# NAGRONEX<sup>®</sup> SNB

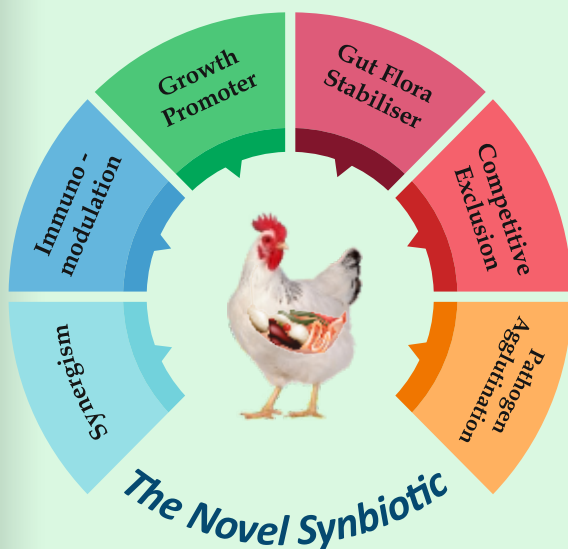
Novel and Sustainable SYNBIOTIC



*Bacillus subtilis* produces endospores which allow the bacteria to endure extreme environmental conditions. Spore forming bacteria are capable of growth, metabolic activity only when in the vegetative state and resort to sporulation during conditions of inadequate nutrition or other challenges to survival. As spores, cells are metabolically inactive and more resistant to the lethal effects of heat, drying, freezing, toxic chemicals, radiation, etc.



The inherent resistance of spores to environmental stress is an attractive attribute for use of *Bacillus subtilis* as probiotics in animal production.



## BENEFITS

Improves FCR, weight gain & productivity

Improves the integrity of intestinal villi, promotes gut health and improves feed efficiency.

Enhances immunity, disease resistance, health status and reduces mortality.

Decreases egg, meat contamination, environmental colonisation and helps in an efficient pathogen reduction program

Crucial in any interventional program for animal health, food quality and safety

Excellent Nutritional Food Safety tool & Best cost / benefit alternative

## RECOMMENDED USAGE

450 g per tonne of finished feed

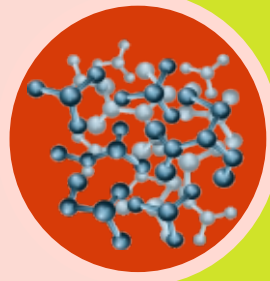
## PRESENTATION

5 kg & 25 kg



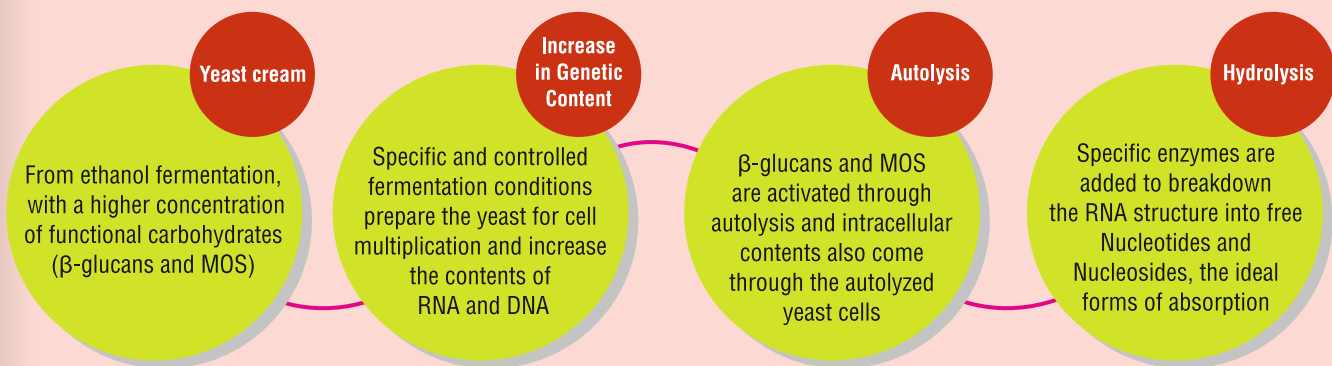
# NAGROMUNE®

Free Nucleotides Fortified with  
MOS and  $\beta$ -glucans



**NAGROMUNE** is a rich source of free Nucleotides & Nucleosides, Short chain Polypeptides, MOS and  $\beta$ -glucans, derived from GMO free, purified yeast cell walls of *Saccharomyces cerevisiae* for better intestinal villi & organ growth, efficient feed conversion, growth, productivity and immunity.

## HOW IT IS PRODUCED ?



## FEATURES

- 100% hydrolyzed yeast culture with thick & dense cell walls.
- Rich source of free nucleotides and nucleosides.
- Gut flora stabilizer.

## RECOMMENDED USAGE

**NAGROMUNE** can be used in young birds, during growing & laying periods and during various stress and disease conditions.

**BROILERS: Initial Phases** - 1 - 2 kg per MT of feed;

**Grower & Finisher** - 500 g - 1 kg per MT of feed.

**LAYERS: 0 to 6 weeks** - 1 - 2 kg per MT of feed;

**Production** - 500 g - 2.0 kg per MT of feed.

**BREEDERS:** 1 - 2 kg per MT of feed. In cases of poor flock uniformity, high mortality, mycotoxicosis, environmental and health challenges, etc., the dose should be increased to 3 - 5 kg per MT of feed.

## BENEFITS

- Actively supports rapid tissue turnover during phases of growth, reproduction, stress and disease.
- Helps better intestinal villi & organ growth, improves feed efficiency, growth & productivity.
- Enhances immunity, improves health status and helps reduce mortality.
- Prevents intestinal tract colonization by pathogens and enhances proliferation of beneficial bacteria.
- Stimulates phagocytic cell activity, agglutinates pathogens in the intestine and binds with mycotoxins.
- Produces more live chicks per hen per breeder.
- Increases body weight gain (BWG) & decreases FCR in progeny.

## PRESENTATION

5 kg & 25 kg



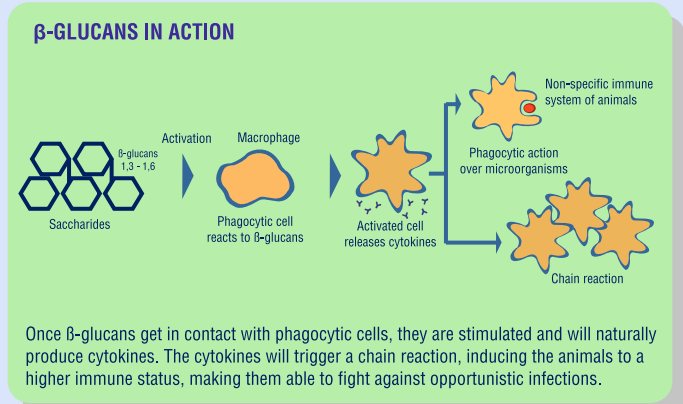
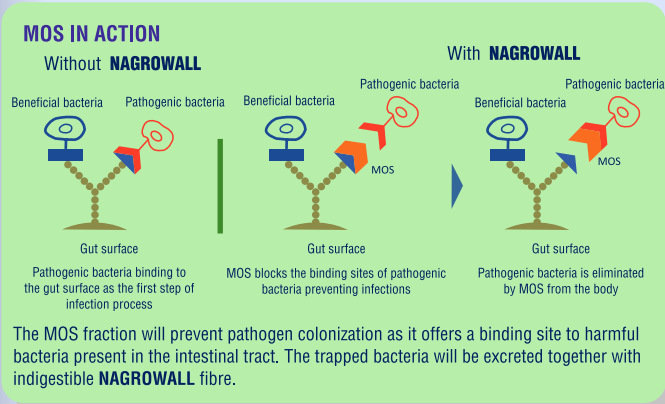
# NAGROWALL®

Functional Fibre with Highest Concentration of Prebiotics



**NAGROWALL** is a natural and functional prebiotic additive, rich in MOS and  $\beta$  glucans derived from purified yeast cell walls of *Saccharomyces cerevisiae*

The carbohydrate structure of **NAGROWALL** is poorly digestible and it passes through the intestinal tract without being degraded, thus keeping its functional properties unaltered during the whole digestion cycle.



## FEATURES

- Thickest cell wall with the highest concentration of MOS &  $\beta$  glucans.
- Three Way Action mode.
- Best BG : MOS ratio.
- Gut flora stabilizer.
- GMO free prebiotic additive.
- Poor / Partial Digestibility of  $\beta$  glucans & MOS (Functional Fibre).

## RECOMMENDED USAGE

**Broilers** : 500 g - 1 kg per tonne of feed  
**Layers** : 1 kg per tonne of feed

## BENEFITS

- Agglutinates pathogens in the intestine and binds with mycotoxins.
- Prevents intestinal tract colonization by pathogens.
- Stimulates activity of the phagocytic cells of the immune system.
- Enhances proliferation of beneficial bacteria.
- Improves feed efficiency, growth and productivity.
- Improves immunity and helps reduce mortality.

## PRESENTATION

5 kg & 25 kg





*Excellence through Innovation*



**Serving Mankind Through Animal Welfare**

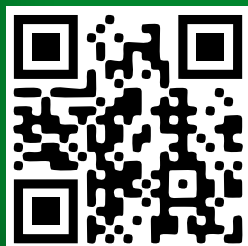
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