

For optimum growth.....naturally

NatusoTM



Antibiotic growth promoters have been under scrutiny for many years and have been banned from the market in many countries. Antibiotic growth promoters and antibiotic resistance are closely related. The increased concern about the potential for antibiotic resistant strains of bacteria has compelled to explore the need for non antibiotic alternatives. The animal food industry with its emerging role as a responsible partner in human health and well being, has taken up the challenge of antibiotic free feed management practices.

Be part of a safe food chain...

NATUSOL™ *A new age Non-antibiotic growth promoter*

Animal food industry has relied on the use of antibiotics as growth promoters and antibacterial agents leading to antibacterial resistance in the birds. The process of resistance to antibiotics has affected the immunity and productivity of birds. Many countries have already banned the usage of antibiotics as a growth promoter & the concern is spreading to other countries as well.

NATUSOL is a "Natural solution" to replace antibiotics as a growth promoter and to increase the profitability of the poultry farmer.

NATUSOL is a new age natural Non-antibiotic growth promoter, containing a combination of natural, proven and time-tested antibacterial, antiviral, growth promoting and gut stabilizing agents, a combination which works synchronously to maintain health, improve immunity and resistance to diseases and also to preserve gut homeostasis. NATUSOL is a combination of essential oils, phytomolecules, stable direct fed microbials and selected organic acids.

Impact of Essential Oils

NATUSOL contains some of the most effective and established antibacterial and antifungal essential oil actives, including Thymol and Carvacrol. The antimicrobial action specificity of Thymol and Carvacrol is owed to the presence of phenolic groups in the essential oils actives, which act specifically in bringing about the disruption of pathogenic microbial cell membranes through hydrophilic hydroxyl groups.

Role of Phytomolecules

Selected and time tested essential phytomolecules present in NATUSOL exhibit antimicrobial, anti-viral and anti-fungal properties and protects the gut from harmful effects of pathogens. Some of the phytomolecules help the birds to absorb nutrients by improving the secretion of digestive enzymes and thereby promoting growth.



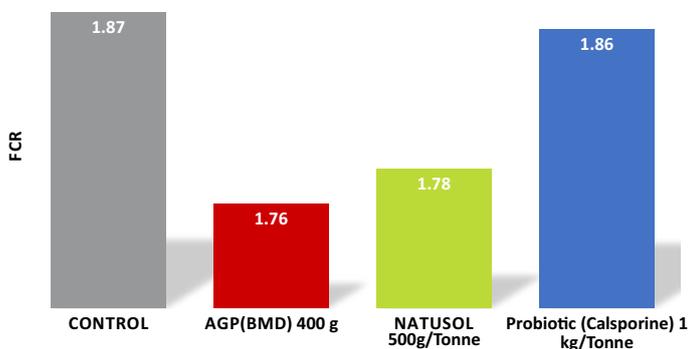
Antibacterial & Digestive Influence of DFMs

Direct Fed Microbials present in NATUSOL are new generation spore forming GRAS, FDA & AFFCO listed microbes that protect the gut from invading pathogens. These organisms are antagonistic to intestinal pathogens. They secrete metabolites which include local acting bacteriocidal and bacteriostatic compounds and enzymes that improves nutrient digestion as well as stimulate production of secretory antibodies of the class Immunoglobulin A in the gut.

Actions of Organic acids

The organic acids present in NATUSOL destroy pathogens both by diffusion inside the cell and lysis of cell membrane. It also enhances feed digestion by reducing the buffering capacity of feed, with additional role as an energy source for the physiological system.

NATUSOL-AGP-Probiotic Comparative Study (Journal of Poultry Science, 52:274-281, 2015, JPSSA, Japan)



Natusol Assists In

- Rapid development of a healthy gut microflora.
- Optimizing digestion and performance improvement.
- Stimulating and rapid maturation of the immune system.
- Reducing incidence of diarrhoea & dependency on antibiotics.
- Improving feed efficiency.
- Lowering mortality rates & increasing profitability.
- Reducing wet dropping.
- Reducing environmental pollution.
- Assuring food safety.

Composition :

Selected Phytomolecules
Direct fed microbials
Glucamannan oligosaccharides
Specific Organic acids

Administration:

500g per tonne of feed.
or as directed by the nutritionist.

Presentation:

10 & 25Kg Poly laminated paper bags.



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