



## A Unique Feed Supplement Replacing Antibiotics

### PRODUCT INGREDIENTS:

Magnesium aluminosilicate mineral, blended with Directly Fed Microbials (DFMs)

Pre and probiotics

Yeast essential enzymes

Organic Essential Oils

### PACKING

1 kg & 5 kg

### BENEFITS:

- It has a bacteriostatic effect on susceptible organisms, caused by inhibition of protein synthesis through binding to the 50S subunit of the bacterial ribosome.
- This has a wide spectrum of activity against Gram-positive bacteria including *Staphylococcus*, *Streptococcus*, *Corynebacterium*, and *Sipelothrix*. It has a much narrower Gram-negative spectrum of activity, but has been shown to be active against *Campylobacter coli*, and certain spirochaetes. It has also been shown to be extremely active against *Mycoplasma* species isolated from both mammalian and avian hosts.
- The following represents MIC susceptibility data for a few medically significant pathogens:
- Works for Mycoplasmosis, Necrotic enteritis, *Ornithobacterium rhinotracheale*. Thus prevents problems like CRD by reducing pathogenic environment and mycoplasma gallisepticum load.
- Improves FCR
- Improves resistance
- Increases egg production and Body weight



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### BENEFITS:

- Produces a polypeptide which possesses activity mainly against Gram negative bacteria and in veterinary medicine is used orally for the treatment or prevention of enteritis in production animals it is highly effective against strains of Escherichia coli, Pseudomonas aeruginosa, Salmonella spp., Haemophilus spp., Shigella spp., Pasteurella spp., Brucella spp., Aerobacter aerogenes and Bordetella bronchiseptica. Gram positive bacteria are generally less sensitive, but there are some sensitive strains such as Staphylococcus spp., Bacillus spp., Streptococcus pyogenes and Corynebacterium spp.
- The mechanism of action of Polyact-col is to alter the permeability of the cell membrane of bacteria. This process occurs by electrostatic interactions between the cationic polypeptide and anionic molecules of lipopolysaccharide of the outer membrane of Gram negative bacteria, favouring the derangement of the bacterial cell membrane. This way the colistin displaces magnesium (Mg<sup>+</sup>) and calcium (Ca<sup>+2</sup>), which destabilizes the lipopolysaccharide molecule of negatively charged part producing an alteration of the outer membrane. The result of this process is an increase in the permeability of the cell envelope, leakage of contents and subsequently cell death.
- Colibacillosis is produced by Escherichia coli, the predominant bacterial species of normal digestive microbiota of most animals. The importance of colibacillosis in poultry and pig production lies in the large economic losses generated by the high costs of treatment and by decreasing certain production parameters such as weight loss, increased conversion rates and mortality.



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### BENEFITS:

- Very effective against Gram positive bacteria.
- It interferes with the dephosphorylation of C55-isoprenyl pyrophosphate and a related molecule known as bactoprenol pyrophosphate;
- Both of these lipids function as membrane carrier molecules that transport the building blocks of the peptidoglycan bacterial cellwall outside of the inner membrane.
- Prevents and controls enteritis problems.
- Improves growth and feed efficiency.
- Increases the egg production.
- Safe and eco friendly.



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### BENEFITS:

- Bacteriostatic, broad spectrum works against Gram Positive and Gram Negative bacteria.
- They inhibit bacterial protein production by acting on bacterial Ribosome-30s subunit and prevent binding to the Ribosomes of aminoacyl transfer-RNA.
- Immune booster, growth promotion, prevention of stress, improvement in egg production, weight gain and general health improvement and improves FCR.
- Broad spectrum activity, effective against fowl cholera, CRD, specific & non-specific diarrhoea and secondary infections of bacteria. Fast absorption gives quick results and longer stay in the site of infection.



## An Innovative Research Based Product Composed with Beneficial GUT Probiotics.

### COMPOSITION:

10 billion CFU per gram

*Saccharomyces boulardii*

*Bacillus licheniformis*

*Lactobacillus acidophilus*

*Pediococcus acidilactici*

*Acetobacter sp.*

*Saccharomyces cerevisiae*

*Bacillus subtilis*

*Lactobacillus casei*

*Bifidobacterium bifidum*

### PACKING

500 gm

### BENEFITS:

- Fast establishment of beneficial gut microflora.
- Increases the lipid degradation from the diet.
- Increases the production of lactic acid, Hydrogen peroxide, Antibiotic substances, Enzymes and B-Vitamins.
- Re-establishes balanced gut microflora during post-antibiotic application.
- Reduces bacterial enteric pathogens.
- Reduces incidence of wet litter and pasty vent.
- Improves weight gain.
- Improves feed conversion ratio (FCR).
- Decreases mortality.
- No negative side effects, no withdrawal time.



## High Nutritional Value - Animal Feed Supplement

### COMPOSITION:

*Saccharomyces boulardii* 2 billion CFU per gram  
*Saccharomyces cerevisiae* 2 billion CFU per gram

### BENEFITS:

- This biological feed supplement is highly effective in regulating animal gastrointestinal environmental balance by:
- Improving the efficacy of the immune system.
- Improving the intestinal health.
- Promoting feed digestion and absorption of nutrients and also reduce the gut Ph.
- Improving the production performance.
- Improving animal product quality.
- Binding harmful toxins in the feeds.

### PACKING

1 kg



## Natural Immuno Stimulant and Growth Promoter

### PRODUCT INGREDIENTS:

Fermented Ginger, Garlic, Ashwagandha, Tulasi & other synergistic phytomolecules with Mannan Oligo Saccharides (MOS) and

### PROBIOTICS:

<i>Lactobacillus acidophilus</i>	5 billion CFU / gm
<i>Bifidobacterium bifidum</i>	5 billion CFU / gm
<i>Bacillus subtilis</i>	5 billion CFU / gm
<i>Saccharomyces boulardii</i>	5 billion CFU / gm
<i>Saccharomyces cerevisiae</i>	5 billion CFU / gm

### PACKING

500 gm

### BENEFITS:

- It improves immunity to prevent secondary infections.
- It aids digestion and improves feed conversion ratio.
- It is an excellent antioxidant.
- Improves the immune system and enhances the macrophages response.
- Prevents the colonization of pathogens in the intestinal tract.
- Counteracts stress due to diseases.
- Improves the litter condition.



## Probiotic Combination for Gut Health (Prevents and Controls Specific & Non Specific Diarrhoea for Regular use in Poultry)

### PRODUCT INGREDIENTS:

60 X 10<sup>11</sup> billion CFU per 1kg

*Saccharomyces boulardii*

*Lactobacillus acidophilus*

*Bifidobacterium bifidum*

*Enterococcus faecium*

*Bacillus amyloliquefaciens*

*Bacillus subtilis*

*Lactobacillus casei*

*Pedicoccus acidilactic*

*Bacillus licheniformis*

### BENEFITS:

- Controls loose droppings.
- Removes noxious odour and ammonia toxicity in the litter.
- Prevents and controls bacterial infections.
- Improves the litter condition.
- Improves overall bird health and feed conversion ratio.
- Improves the utilization of nutrients in the body.
- Controls stress from diarrhoea.

### PACKING

500 gm & 1 kg





## Highly Concentrated Electrolytes, Probiotics and Vitamin C for Poultry & Livestock

### COMPOSITION:

Each 100gm contains:

Calcium gluconate	1.1 gm
Calcium lactate	1.2 gm
Sodium chloride	1.0 gm
Sodium bicarbonate	3.0 gm
Sodium citrate	5.0 gm
Potassium chloride	5.0 gm
Sodium acid phosphate	0.8 gm
Magnesium sulphate	1.0 gm
Dextrose	40 gm
Vitamin C	1000 gm
Lactose	40 gm
Lactobacillus	1B/ C.F.U.
Carrie	Q.S.

### PACKING

1 kg

### BENEFITS:

- Prevents dehydration in a day old chicks after long travel and heat stroke in summer.
- Supportive therapy during diarrhoea etc. such as IBD, E.coli, Coccidiosis, Salmonellosis, Perosis, Diarr. Provides readymade energy.
- Highly effective against high temperature and humidity.



## Liver Stimulant & Growth Promoter

### PRODUCT INGREDIENTS:

Extracts of Bhumyamalaki, Sarapunkha, Bhringraj, Yavatikta, Kakamachi, Tulasi, Haritaki with Betaine and

### PROBIOTICS:

<i>Saccharomyces cerevisiae</i>	50 billion CFU per kg
<i>Saccharomyces boulardii</i>	50 billion CFU per kg
<i>Lactobacillus acidophilus</i>	50 billion CFU per kg
<i>Bifidobacterium bifidum</i>	50 billion CFU per kg

### PACKING

5 kg & 20 kg

### BENEFITS:

- Protects liver from toxins and liver disorders.
- Optimises the digestability of feed ingredients.
- Improves egg production and fat metabolism.
- Increases the immune system and enhances the macrophages responses.



## Vitamin-D3 & Probiotics, Calcium, Phosphorous & Minerals (Phosphorous is Vital for Optimum Growth & Egg Production)

### COMPOSITION

Each 1Kg contains:

Vitamin D3	5,12,500 IU
Calcium	250 gm
Phosphorous	125 gm

#### **Probiotics:**

<i>Bacillus subtilis</i>	36billion CFU
<i>Lactobacillus subtilis</i>	36billion CFU
<i>Saccharomyces boulardii</i>	36billion CFU

### PACKING

200gm

### BENEFITS:

- Prevents leg weakness.
- Improves egg shell quality.
- Reduces thin shelled and broken eggs.
- Prevents prolapse, pecking and cannibalism.
- Prevents cage fatigue.
- Improves growth and egg production.
- Improves fertility and hatchability in breeding flocks.



## Excellent Synergistic Combination of Vitamin E, Selenium and Gut Probiotics High Concentrate Water Soluble Powder

### COMPOSITION

Each 200 gram contains

Vitamin E	20 gm
Selenium	200 ppm
Carrier	Q.S.

### GUT PROBIOTICS:

60Billion CFU

*Saccharomyces cerevisiae*

*Saccharomyces boulardii*

*Lactobacillus acidophilus*

*Bifidobacterium bifidum*

*Bacillus subtilis*

### PACKING

200gm