Auripro Gut
Complete Gut Care with Synbiotics

# Complete Gut Care with Synbiotics

## Key Benefits:

- Improves digestion and enhances nutrient absorption.
- Improves production of endogenous butyric acid for better gut health.
- Reduces ammonia production in litter.
- Improves fecal condition and reduces sticky paste on eggs.
- Improves body immunity, health and reduces mortality.

## Indications:

- 24 hrs after antibiotic therapy for 3-5 days.
- Daily in stress phase (Vaccination, Feed change etc.)

**Mortality Prevention Programme in Layer birds:**

- Regular supplementation in the flock of layer birds for first 4-8 weeks of age helps to maintain health, reduces mortality rate, augments growth and improves immunity to prevent incidence of diseases I.e Colibacillosis, Salmonellisis etc.

**Mortality Prevention Programme in Broller birds:**

- Regular supplementation in the flock of broller birds for first 2 weeks of age helps to augment growth, alleviates stress, reduces mortality rate and improves immunity to prevent Incidence of disease i.e. Colibacillosis, Salmonellosis etc.
- The areas with incidence of Necrotic entritis may require 3rd and 4th week of supplementation.

No need of additional Probiotics, Immunomodulators and Butyrates


Pack Size 25 kg

## Storage conditions

Store in dry conditons, away from sunlight and temperature not exceeding 25°C

Not recommended in pellet feed


AURINKO
Leading Innovation in Healthcare & Nutrition

**Aurivet Division**
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# HIGH

## MORTALITY, DISEASE INCIDENCE AND POOR GROWTH

## Wipes away your farm profit

Auripro® Gut
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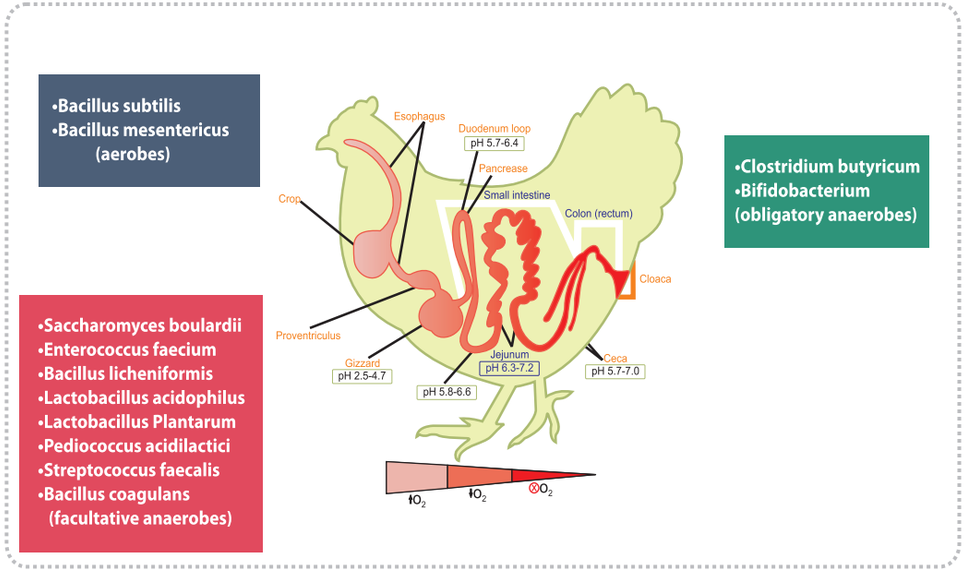
Auripro® Gut is a full-spectrum cocktail of eleven extremely effective probiotic strains, fortified with Mannan oligosaaccharides (MOS) and Beta glucan providing a wide range of gut support and immunomodulation by colonizing across the complete digestive tract.




## Composition

Each kg contains:
Beta Glucan & MOS Complex 900 gm
*Bacillus subtilis, Bacillus licheniformis, Bacillus mesentericus, Lactobacillus plantarum, Pediococcus acidilactici, Streptococcus faecalis, Clostridium butyricum, Enterococcus faecium, Saccharomyces boulardii, Bacillus coagulans, Lactobacillus acidophilus*
(Probiotic count is 3,000 Billion CFU per kg)

## Recommended usage:

**Inclusion rate: In mash feed**
**Breeder/Grower:**
200 g/ton of feed.
**For Layer:** 100-200 g/ton of feed.

**Broiler:**
For Starter: 200-300g/ton of feed.
For Finisher: 100-200g/ton of feed.

**Swine:**
For Piglets: 500g-1000g/ton of feed.
For Pig Fattening: 500g/ton of feed.
For Gestating & Lactating sows: 500g/ton of feed.

**Aquaculture:** (Mix with gel binder before addition to feed)
0.3 gm per Kg of feed during fry, fingerling stage.
0.2 gm per Kg of feed up to 120 days of growth period incarps / up to 45 days in prawns.
0.1 gm per Kg of feed from 121 days onwards in carps / from 46 days onwards in prawns.

| Recommended Water Application of Auripro Gut | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 10000 Layer Chicks | | | | 10000 Broilers/Layer chicks in disease infested zone | | | |
| Week | Per Morning (g) | Per Evening (g) | Per Day (g) | Per Week (g) | Per Morning (g) | Per Evening (g) | Per Day (g) | Per Week (g) |
| 1 | 40 | 40 | 80 | 560 | 50 | 50 | 100 | 700 |
| 2 | 40 | 40 | 80 | 560 | 65 | 65 | 130 | 910 |
| 3 | 40 | 40 | 80 | 560 | 80 | 80 | 160 | 1120 |
| 4 | 40 | 40 | 80 | 560 | 100 | 100 | 200 | 1400 |
| 5 | 40 | 40 | 80 | 560 | | | | |
| 6 | 40 | 40 | 80 | 560 | | | | |
| 7 | 40 | 40 | 80 | 560 | | | | |
| 8 | 40 | 40 | 80 | 560 | | | | |
| | | | Total | 4480 | | | Total | 4130 |

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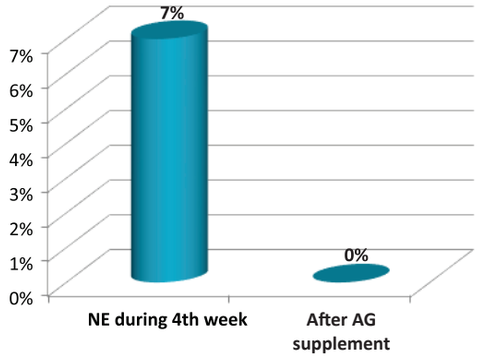
## Diseases Incidence

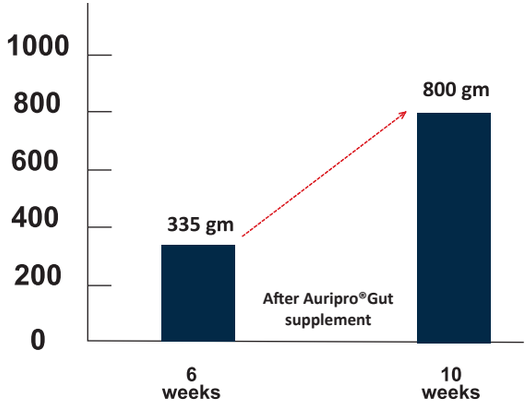
- **Trial Duration: 35 Days**




- Incidence of Necrotic Enteritis during 4th week was 7%.
- After Auripro®Gut supplementation disease prevalance rate reduced to 0%.
- No exposure of CRD, while neighbouring poultry farms were affected with CRD.

## Improved Performance in Layer Chicks

- **Trial Duration: 4 Weeks**




- 6 week layer chicks were underweight by 100 gm (Normal weight 435 gm).
- 10 week weight was observed at 800 gm (Normal weight 715 gm).
- Significant improvement of 465 gm weight gain during 4 week supplementation.
- No exposure of CAV or any other infection, while neighbouring poultry sheds were affected with CAV.

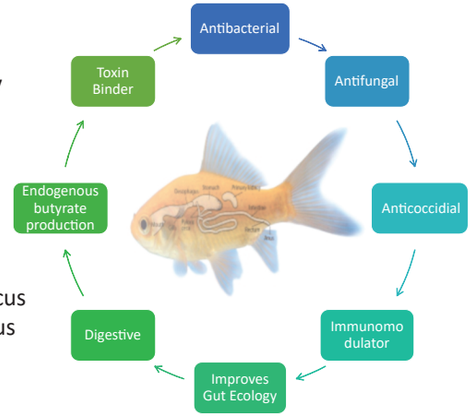
## Mode of Action:

### Anti-bacterial

Auripro® Gut provides anti-bacterial action with the help of probiotics, like- Bacillus subtilis, Bacillus licheniformis, Bacillus mesentericus, Lactobacillus acidophilus, Pediococcus acidilactici. These produce bacteriocins (Subtilin, Lichenin, Lichenicidin, Pediocin, Pediocin Ach etc) to exert bactericidal action on the bacteria.

### Anti-fungal

The anti-fungal action of Auripro® Gut is provided by Bacillus licheniformis, Lactobacillus acidophilus and Lactobacillus plantarum. They produce several chemicals and peptides to act against yeast and fungal infections.




### Anti-coccidial

The probiotics Like- Bacillus mesentericus, Pediococcus acidilactici, Clostridium butycricum and Streptococcus faecalis provides anti-protozoal activity against coccidial infections.

### Immunomodulator

Auripro® Gut provides broad spectrum immunomodulation in birds. Cell mediated immunity is improved with the help of Lactobacillus acidophilus, Bacillus mesentricus, Saccharomyces boulardii Pediococcus acidilactici and Beta-glucan. They stimulate Leukocytes, T cells and Cytokines. Humoral immunity is initiated by Lactobacillus plantarum, Bacillus subtilis, Clostridium butyricum, Bacillus mesentricus, Pediococcus acidilactici and MOS. They increase serum IgA, IgG and IgM in broiler chickens. Strains of Saccharomyces boulardii and Bacillus subtilis causes production of cytokines to endorse the mucosal immunity.

### Improves Gut Ecology

Probiotics like Pediococcus acidilactici increases the concentration of lactic acid bacteria (LAB) and Bifidobacteria thus improves gut ecology. Lactobacillus plantarum and Mannan-oligosaccharide maintain and restablishes the condition of eubiosis in the digestive tube, and maintain microflora and the balance of gastro intestinal tract.

### Digestive

Probiotics also improve digestion by releasing enzymes i.e. GGT, α-Amylase, Arabinase, Cellulase, Dextranase, Glucanase, Maltase, Xylanase, Aminopeptidase, Esterase, Trypsin, Protease, Lipases, Nucleotidase.

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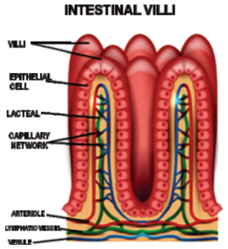
**Toxin Binder**

Mannan oligosaccharides and Toxin binding probiotics like- *Lactobacillus acidophilus*, *Lactobacillus plantarum, Enterococcus faecium* are effective against Ochratoxin A, Fumonisin B1, Aflatoxin B1 and heavy metals i.e., Patulin and Arsenic.

## Endogenous Butyrate Production




Lactobacilli are useful probiotics for their property of indirect stimulation of butyrate production. Lactobacilli produces lactic acid, which is consumed by Clostridium strains (e.g. Clostridium butyricum) to produce butyrate in the chicken cecum.

High concentration of butyrate producing bacteria (Clostridium cell proliferation, thus intestinal villi will become longer. This helps to improve body weight gain and reduces feed conversion ratio in chickens significantly.

Lactic acid bacteria (LAB), Bacillus species and Pediococcus acidilactici, help in maintaining digestive system by increasing villus height in duodenum and ileum to help in better nutrient availability and FCR. Also the addition of **Enterococcus faecium** to Broiler diets increased the jejunal villus height and ileal villus height.

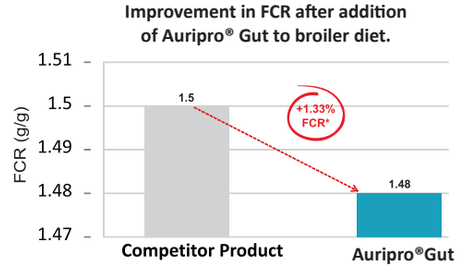
The Intestinal barrier plays an Important role in maintaining Intestinal health.
Butyrate upregulates AMP activated protein kinase, which regulates the assembly of epithelial tight Junctions in the intestine to control entry of pathogens.
Presence of butyrate In the intestine plays a role in the control of pathogens such as Salmonella Enteritidis and Clostridium perfringens (necrotic enteritis).
The mucin-producing goblet cells in the small intestine and distal gastrointestinal tract are also influenced by the presence of butyrate. Butyrate increases secretion of mucin, a glycoprotein, which forms a protective layer on the enterocytes (Intestinal lining).
Butyrate affects enteroendocrine L-cells secreting GLP2. GLP2 stimulates the intestinal crypt cell proliferation and reduces apoptosis in the crypt compartment. Therefore increases villi length to improve absorptive function of the small intestine and has a positive effect on growth performance in broiler chickens.
In addition to the role of butyrate in growth performance and pathogen control, butyrate also has anti-inflammatory properties.

## Superior Performance:

The comparative field trial data of Auripro®Gut as generated from broiler farms in Haryana & Western UP (India)

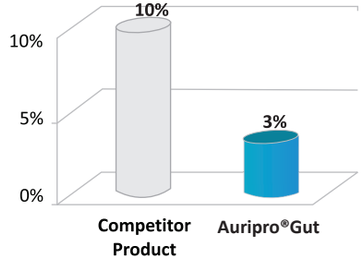
### FCR

- **Trial Duration: 35 Days**




### Mortality Rate.

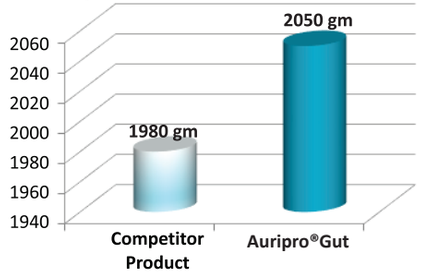
- **Trial Duration: 35 Days**




■ Reduction in mortality rate after addition of Auripro®Gut

### Body Weight Gain

- **Trial Duration: 35 Days**




■ Improvement in body weight gain.

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