

B.S.

A unique herbal feed supplement

BAZARGANI KHADAMATI AVASAMAN CO.





How it works

Application of BS as a specific feed additive is able to optimize the gastrointestinal environment for the better digestion and absorption.

As a growth promoter for the intestinal mucosa, it increases digestion and absorption rate and allows us to reduce the feed amount.

As a result of less calcium, Phosphorus and protein which are used in feed formula, pH of the gastrointestinal tract tends to be lower which is in favor of absorption and digestion rate.

Effect on gastrointestinal microbiota

The physiological pH of gastrointestinal tract (GI) of poultry is acidic, however, as it is shown in table 1 many of the feed materials increase the GI pH.

Unavoidably ingestion of feed increases pH of GI and makes the environment prepared for the growth of pathogenic bacteria and let them outnumber the species which are beneficial. Table 2 shows some pathogenic bacteria and pH they prefer.

A unique supplement which consists of local herbs with significant following effects:

- Better absorption rate
- Better digestion
- pH reduction effect
- Healthier gut microflora
- Healthier respiratory system
- Reduction in feed cost
- Less protein requirement
- Less calcium and phosphorus in feed formula
- Less ammonia contamination
- Reduction in peristaltic movements and increase absorption rate
- Improve immunity system

Raw material	Meq/Kg (Min-Max)
corn	135-172
Wheat	180-240
Rice	480-520
Sun flower gluten	850-900
Soy gluten	1000-1200
Fish powder	1500-2100
Di calcium phosphate	8000-10000
Calcium carbonate	19000-21000

Table 1– Acid binding capacity of raw materials of feed

Indication: Preventive feed supplement for poultry

Application: 2 kg per 1000 kg feed of poultry

Microorganism	Optimal pH
Lactobacillus SSP	5.4-6.4
Escherichia Coli	6-8
Salmonella SSP	6.8-7.2
Campylobacter jejuni	6.8-7.2

Table 2– Optimal pH for some pathogenic bacteria

As it is shown most pathogenic bacteria prefer pH around 7, however the optimal pH for beneficial species like Lactobacillus is around 6. When BS is added, pH of the GI tract tends to become lower as a result of the change in the formula. Hence Lactobacillus is able to outnumber the pathogenic bacteria. This is the same effect of an antibiotic.

Ammonia contamination

NH₃ emissions in poultry houses as a waste product for protein metabolism have caused environmental challenges.

Using BS gives us the chance to reduce the protein of formula by 10-15%. In this way ammonia production can be reduced and ammonia contamination of environment can be controlled.

BS effect on absorption of minerals

Because using BS in the formula can reduce the pH of GI, cations like calcium, zinc, selenium, magnesium and iron have a better absorption rate. The whole effect can result in improvement of immunity system of the bird and less infection.



BS is a combination of local herbs which :

- can be a good replacement for antibiotics
- Is a good solution for wet bed of birds houses
- Is an ecosystem friendly supplement
- Helps reducing the cost of feed and increasing the FCR
- Improves the bird gastrointestinal and respiratory health

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