



## Anti Ammonium Extra

### Ammonia Emission Reduction & Pathogen Control in Feed

#### Suitable for poultry

#### Premix (0.25%)

#### Ingredients:

- Herbal extracts
- Organic acids
- Minerals

In poultry industry, litter moisture, ammonia gas and feed contamination are considered 3 main challenges. Considering the issues related to poultry feed, such as how to receive the feed, the delivery of the feed to its destination, storage and processing, the possibility of the spread of pathogens such as fungi and microbes and toxins such as aflatoxins increases and causes a decrease in feed quality. On the other hand, if the poultry feed is contaminated with microbes, the bird will suffer from food poisoning, in this condition, the digestive system of the bird will excrete more water and its droppings will become too watery, and as a result, litter moisture and ammonia gas will also increase.

The high concentration of ammonia gas in poultry houses causes a decrease in the growth rate and production efficiency, respiratory problems, increased sensitivity and various diseases and mortality. Therefore, it is necessary to use a product that solves these problems and improves the quality of life and performance of poultry.

### Mechanism of action:

The formulation of the plant compounds in Anti Ammonium Extra is very precise and based on the active substances found in plants. One of these active ingredients is allicin. Allicin is a useful ingredient with broad antimicrobial properties. Allicin is a natural antibiotic and is very useful for fighting bacterial and viral infections by stimulating immune cells and increasing the production of white blood cells.

Curcuminoids, polyphenols and curcumins are other active ingredients in this product. These compounds have a strong antioxidant and anti-inflammatory effect and help liver health by improving blood circulation and therefore cause detoxification. By stimulating the secretion of bile, these substances enhance the digestive system and are useful in the treatment of many inflammatory intestinal diseases. Also, these substances are very effective in treating arthritis and joint problems due to their anti-inflammatory properties.

Peprine, another active ingredient, is an extremely strong antioxidant. Peprine increases the absorption of curcumin in the body and helps to prevent the formation of intestinal gases with its antibacterial properties. By stimulating taste buds and releasing hydrochloric acid, peperin causes better digestion of food.

The organic acids and mineral compounds in this product have antibacterial and antifungal properties, and by reducing the pH of the digestive system, they increase resistance to diseases.


In general, Anti Ammonium Extra has an antimicrobial effect and increases the passage time of food through the intestines, as a result, by reducing the number of harmful bacteria and better absorbing water and food in the intestines, it reduces humidity and consequently reduces ammonia gas.

### Advantages:

#### Environmental effects:

- Reducing bacterial and fungal contamination in feed
- Reducing litter ammonia
- Reducing gas and unpleasant smell of manure and litter
- Reducing the pH of manure and litter
- Reducing humidity and increasing dry matter in the litter
- Reducing insect larvae in manure and litter
- Reducing the number of flies during the change of seasons
- Reducing the number of Coliforms in manure

#### Physiologic effects:

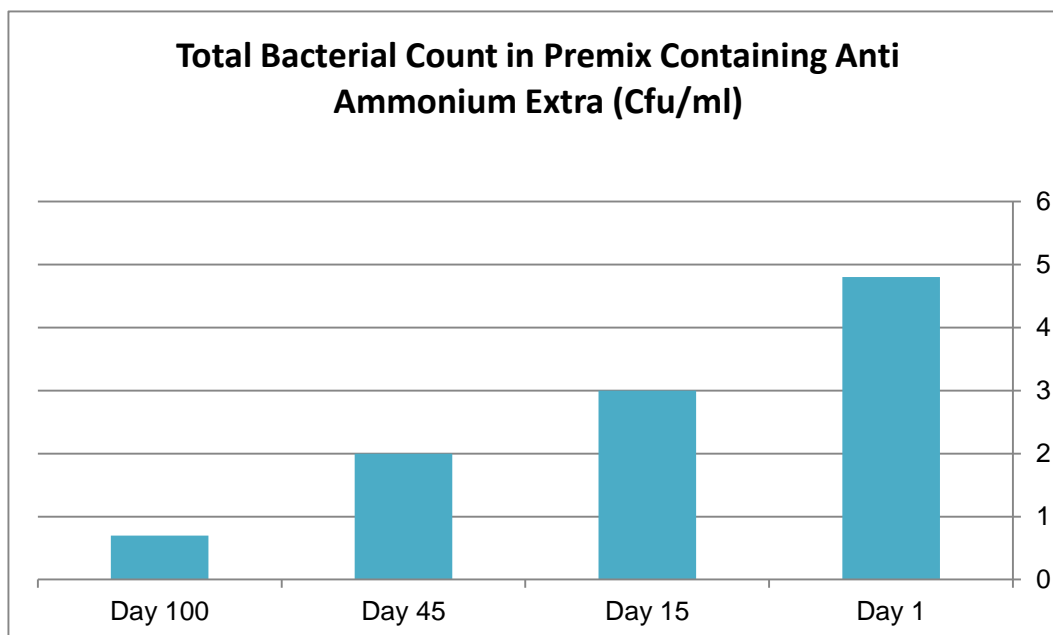
- Reducing respiratory diseases
  - Reducing enteritis and intestinal diseases
  - Reducing Coccidiosis
  - Reducing the number of dirty eggs
  - Reducing foot problems in flock
  - Reducing arthritis
  - Increasing the growth and appetite
  - Improving FCR and the function of poultry
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- A decorative network diagram in the bottom left corner, featuring a complex web of interconnected nodes and lines. The nodes are represented by small circles in various colors (blue, purple, pink, grey) and are connected by thin, light-colored lines, creating a mesh-like structure that extends across the bottom of the page.

### Positive effects of Anti Ammonium Extra on litter and the number of bacteria and fungi

Sample	Sample of control litter manure	Sample of treatment litter manure
<b>Colour</b>	Dark brown	Light brown
<b>pH</b>	7.5	7.1
<b>NH<sub>4</sub> (mg/kg)</b>	492.12	303.2
<b>Moisture %</b>	18.2	12.92
<b>Total bacterial count (Cfu/gr)</b>	$4.7 \times 10^9$	$2.3 \times 10^9$
<b>coccidia oocysts number</b>	Negative	Negative
<b>E.coli number (Cfu/gr)</b>	$6.9 \times 10^3$	$3.1 \times 10^3$

Days of sampling	Total fungi count (Cfu/ml)
Day 1	42
Day 15	0
Day 45	0
Day 100	0

Shigella	E.coli	Salmonella	Days of sampling
negative	negative	negative	Day 1
negative	negative	negative	Day 15
negative	negative	negative	Day 45
negative	negative	negative	Day 100



#### Recommended dosage:

0.5 – 1 kg/ton of feed

(in case of using meat powder or high food contamination can be used up to 2.5 kg/ton of feed)

#### Contraindications:

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#### Drug interaction:

Compatible with all kinds of commonly used medicines, additives and vaccines

#### Side effects:

It is a totally natural compound and there is no side effect or risk of resistance

#### Withdrawal period:

No withdrawal period is required

#### Storage conditions:

Keep in dry place and store in less than 25 °C, away from direct sunlight and in sealed packets.

#### Packaging:

25 kg packets

#### Best time to use:

9 months after the date of manufacture



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