

micron
BIO-SYSTEMS



EnviroVac

BEDDING TREATMENT



Lowering Ammonia

ADVANCED BEDDING TREATMENT

EnviroVac

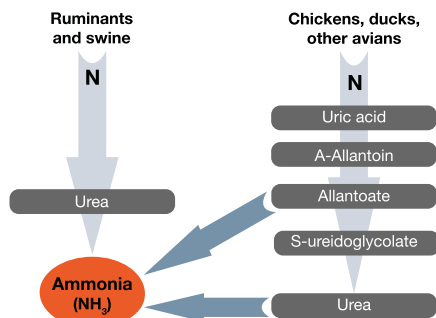
BEDDING TREATMENT

The prevailing environment in livestock housing can dramatically affect the health and productive efficiency of those animals and in turn, business productivity. EnviroVac reduces ammonia levels below normal detection, reducing health issues resulting from ammonia exposure and extending bedding life. EnviroVac can be used on straw, sawdust and shavings.

Benefits of Use

- Reduces ammonia related problems.
- Less foot and hock damage from ammonia exposure.
- Reduces respiratory problems.
- Better growth performance and feed conversion due to lower disease rates.
- Reduced mortality and better welfare overall.
- Lower odour levels for livestock handlers.
- Treated bedding lasts longer, reducing replenishment costs and lowering waste volumes overall.
- Easier to comply with air quality regulations.
- No withdrawal requirements.
- Safe to handle.

Nitrogen in Animal Excretion



Specifically Selected Blend of *Bacillus* Species of Bacteria:

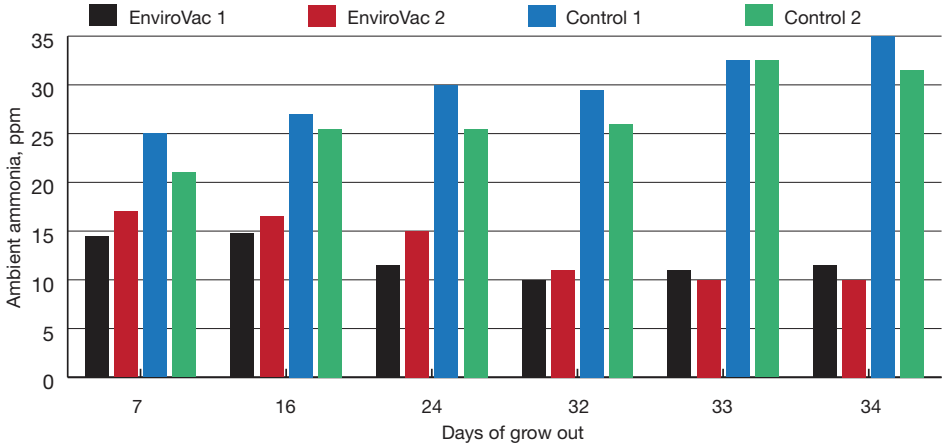
- Thrive in bedding environments including straw and shavings.
- Breaks down undigested waste and organic matter to harmless material.
- Contains naturally occurring unmodified bacteria and microbial enzymes.
- Contains natural stimulant to the *Bacillus* bacteria.

Ammonia Risk

Long term exposure to ammonia results in damage to mucous membranes and lung tissue. This consequently renders animals more susceptible to infection of the respiratory tract. The resulting inflammation and excess mucous production makes it more difficult to shift opportunistic pathogenic bacteria from the linings of the alimentary tract/gut and respiratory pathways.

Faecal nitrogen levels increase further if the animal does not properly break down and absorb the protein in feed. This can happen when the microbial status of the gut is not functioning properly as a result of illness, poor nutrition or other stress e.g. high ammonia levels.

EnviroVac on commercial poultry farms - ammonia levels



Bedding

Trialled and Tested

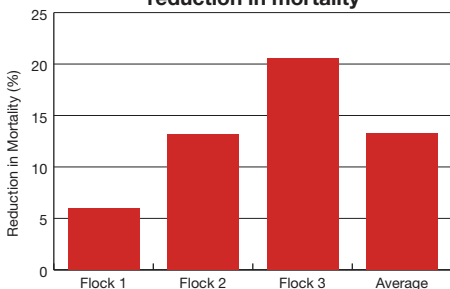
EnviroVac has been robustly trialled on working farms. Results from trials on a commercial broiler flock farm demonstrated its effectiveness in reducing ambient ammonia levels by an average of 54%, and a continual improvement and reduction of ammonia over time with EnviroVac treated flocks.

EnviroVac is long lasting in its effectiveness. A trial was conducted on three subsequent batches of commercial broiler flocks on one farm. The trial with Flock 1 ran from February to April, Flock 2 from April to June and Flock 3 July to August. Chicks from the same age hens, from the same breeder stock, were carefully selected for this series of trials and randomly chosen to remove as many variables as possible. Improvements were seen in mortality rates and feed conversion rates.

An ammonia level of greater than 10/15 ppm negatively affects birds. Humans detect ammonia at about 20/25 ppm.

Trials on EnviroVac shows a continual improvement in mortality for the 3 flocks, indicating that EnviroVac is long-lasting in its ability to reduce harmful levels of ammonia and other emissions.

EnviroVac on commercial poultry farms - reduction in mortality



Bedding Treatment

Ingredients:

EnviroVac is a biological treatment for animal bedding to improve the environment in animal housing. It contains *Bacillus spp.*, and microbial enzymes.

Available in 10kg buckets and also a concentrated formulation.



Directions:

EnviroVac can be applied directly to bedding materials such as straw, shavings and sand or directly onto mats or mattresses.

Loose housing: Distribute 0.5kg EnviroVac evenly per 100m² of bedding surface. Smaller areas can be effectively treating by broadcasting by hand.

Individual hutches/pens: Apply EnviroVac 25g evenly per hutch or similar pens.

Poultry houses: Apply EnviroVac to fresh litter following house cleaning and prior to filling with birds. Allow at least 24 hours after all disinfectants and bio-security chemicals have been used before applying EnviroVac.

Reapply when new bedding is added or as needed. Deep bed systems may require weekly application. EnviroVac can be applied or reapplied to poultry houses already populated with birds without any concern.

Storage:

Store in a cool dry area in original sealed packaging. Keep tub closed when not in use.

ABOUT MICRON BIO-SYSTEMS

Micron Bio-Systems is dedicated to developing cutting-edge product-based agricultural solutions and species-specific programs designed to improve animal health and performance.

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