

## Strengthening Farms Through Eco-Friendly Sanitizers & Disinfectants

At Lintech, we believe in selling products that are pH neutral, efficacious, and bio friendly so that our customers don't have to worry about exposing workers, animals or the environment to harsh chemicals. Join us in embracing a more eco-friendly approach to sanitation without sacrificing performance!

Poultry Protect is a combination of a natural bacteria, bacillus subtilis and the surfactin that it produces. Surfactin is one of the most effective biosurfactants available. Ammonia is a colorless, highly irritating, alkaline gas which is generated by microbial activity on fecal uric acid. It is toxic to animal cells with known symptoms of ammonia poisoning including conjunctivitis, coughing, sneezing and dyspnoea. Poultry Protect utilizes the best of what nature has provided to safely and effectively control ammonia and pathogenic bacteria thus eliminating the need for traditional chemical-based disinfectants (such as formaldehyde and other toxic chemicals).

## Poultry Protect Advantages

- Poultry Protect is certified USDA Biobased and bacillus subtilis (the active in Poultry Protect) is rated as GRAS (Generally Regarded As Safe) by the FDA.
- Natural, non-corrosive, non-toxic, and contains no scents or dyes.
- Single-solution, extended protection time period, high-powered bio-detergent designed to simplify a plant's sanitation and preventive maintenance procedures, while reducing labor expense, and imparting unprecedented surface protection.
- Introduces an active biofilm layer that provides for powerful, long-lasting, performance which:
  - Helps to break down waste in the litter.
  - Protects birds and humans from bacteria such as E Coli, Salmonella and Campylobacter Jejuni.
  - Mitigates poultry foot, hock and breast burns, as well as trachea and lung lesions.
  - Eliminates odors creating a safer work environment for humans and fewer complaints from adjoining properties.
- Poultry Protect is safe for Family, Friends, Children, Pets, Domestic Animals and Plants!

**Poultry Protect creates a better environment  
for your flock, which in turn helps to produce  
healthier, heavier birds!**



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Tests were conducted at four 2044m<sup>2</sup> broiler sheds with a population of 22,300 birds in each. Two were treated with Poultry Protect and the other two with a competitor's product.

### Results Showed:

- Feed conversion ratio was improved by 1-2% per cycle.
- Reduction in ammonia levels over 39 plus days with reduced need for ventilation fans.
- Reduction in unwanted odor in and around the sheds.
- Bird mortality rates were reduced by 0.5%.
- The birds exhibited no feet or breast burns and were all graded at the highest level.
- A 5% increase in bird weight was achieved.
- Darkling beetle populations were dramatically reduced.

### Other Observations:

- Potential for the reduction of antibiotics used in poultry production.
- Less time between growth cycles as clean up time is reduced and delays caused by toxic chemicals are reduced.
- Preliminary indications show a potential increase in overall productivity of approximately 15%.
  - Virus and pathogen control over the grow cycle.
    - A potential reduction in the impact of Avian Flu.
    - Indications of the control of Marek's disease.
  - Due to the exceptional ability of Poultry Protect controlling the formation of ammonia gas, the poultry facility may benefit from energy saving due to the reduction in use of fans and other ammonia displacing technologies.
  - Bird feces are solid rather than liquid meaning better uptake of nutrients and less effects from pathogens.
  - Potential for the reduction of antibiotics used in poultry production.
  - Overall reduction in mortality.

