

MucuSol®

KNOCK THE SNOT OUT OF RESPIRATORY DISEASE

Respiratory diseases are among the major group of diseases affecting poultry today. Consequently, losses incurred by these diseases make a major economic impact on U.S. poultry producers. Respiratory disease is not caused by a single virus or bacteria. It generally is caused from a combination of both, or a host of air quality issues, making treatment and prevention more complicated.

MucuSol®, from Animal Science Products, contains the highest concentration of Guaifenesin—the most efficacious mucolytic agent available today. **MucuSol®** thins mucus, allowing the animal to easily expel it, and rapidly improve breathing efficiency. At the first sign of respiratory congestion utilize **MucuSol®** to eliminate the costly secondary effects of respiratory disease.

Advantages of MucuSol®

- Most concentrated form of the premiere mucolytic agent Guaifenesin.
- Thins mucus, lubricates and drains respiratory tract.
- Makes coughs more productive.
- Improves respiratory efficiency.
- Reduces breathing discomfort.
- Helps expel trapped irritants and infectious agents in mucus.

MucuSol Preserves Tracheal Cilia under *E. coli* Airsacculitis Challenge in Broilers.

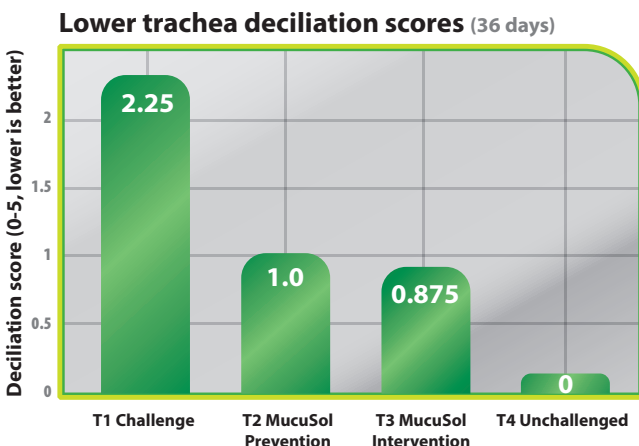


Figure 1. Mean respiratory epithelium deciliation score (0–5; lower is better) in lower trachea at 36 d. MucuSol Prevention (T2) and Intervention (T3) reduced deciliation compared with challenge control (T1), approaching unchallenged controls (T4).

Visualizing Cilia Damage and Protection

High-magnification photomicrographs from the study clearly illustrate the transition from normal ciliation to severe damage and, in MucuSol-treated birds, partial to near-complete restoration.

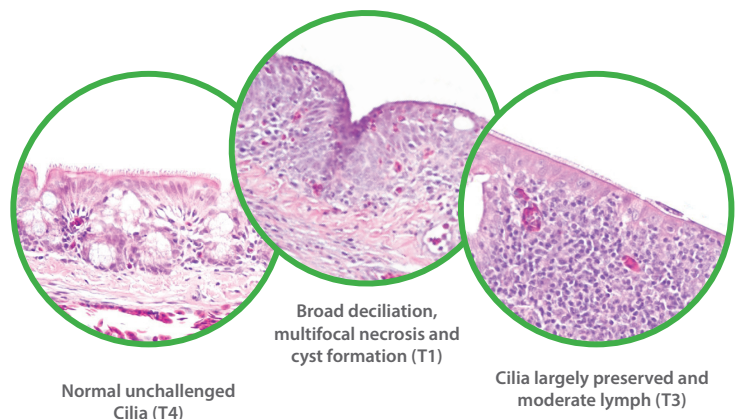


Figure 2. Representative tracheal sections at 36 d. Left: unchallenged control (T4) with normal thin mucosa and continuous cilia. Middle: challenge control (T1) with marked deciliation, epithelial degeneration, and luminal debris. Right: localized deciliation and cuboidal metaplasia in a challenged bird treated with MucuSol intervention (T3)

