

# Biostrong™ C-Protect. Confidence at bat.

## **Raising layers for egg production is a long game with significant investment upfront.**

Supporting performance and bird livability is paramount for business sustainability. One of the many challenges impacting laying hens is avian pathogenic e. coli (APEC), an opportunistic challenge that impacts at least 30% of U.S. commercial layer flocks<sup>1</sup> resulting in decreased egg production, increased bird mortality and significant economic losses, especially during peak egg production.

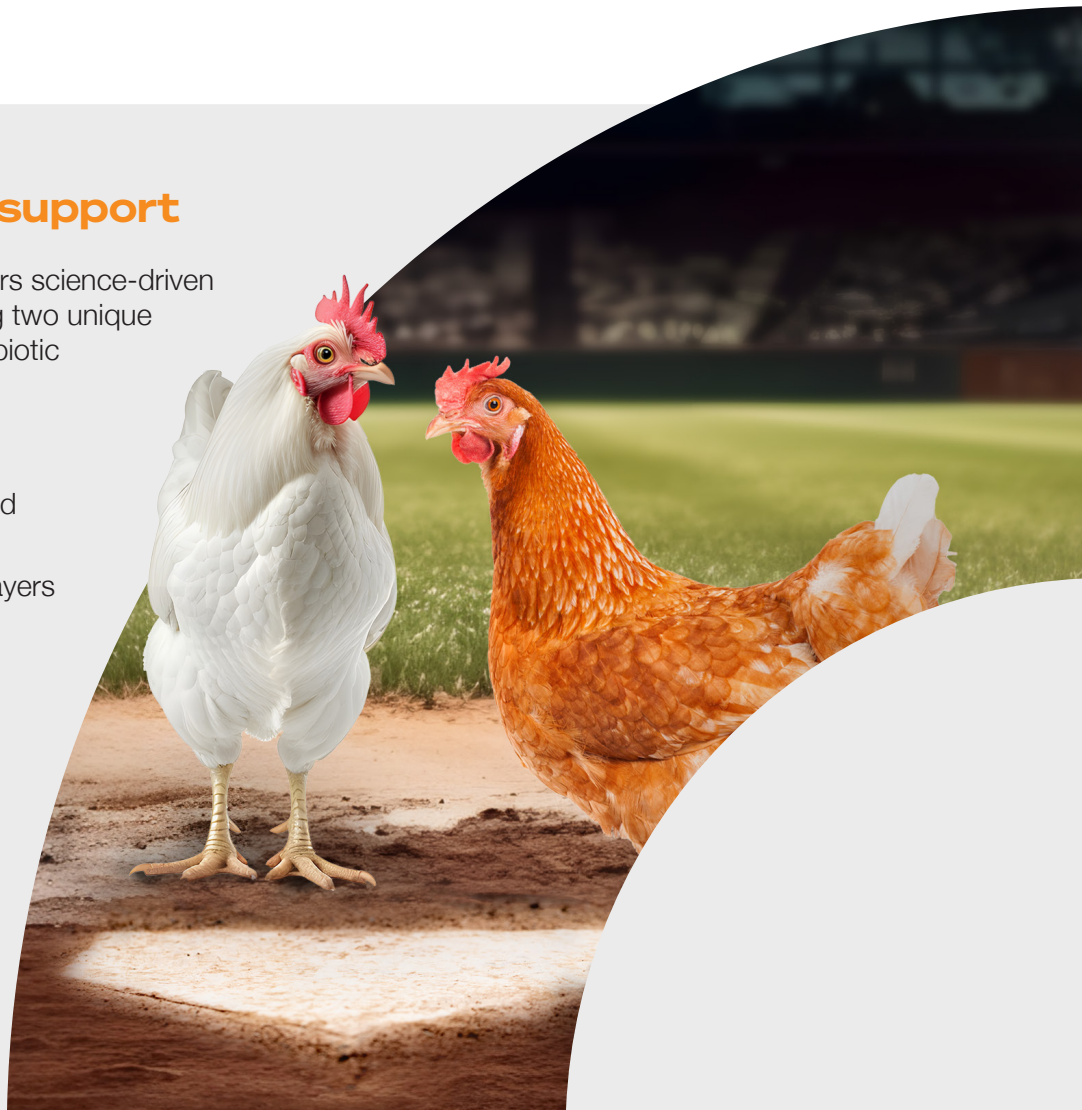


## **Science-driven support**

Biostrong™ C-Protect delivers science-driven health support by combining two unique product categories – a postbiotic (XPC™) with a phytogenic.

### **This unique combination:**

- Supports bird immunity and enhances gut health.
- Has been shown to help layers become more resilient to APEC challenges.



## A proven advantage

Biostrong™ C-Protect, as part of good farm practices, helps mitigate the effects of APEC, improving bird well-being and egg production during a challenge.

### Helps reduce pre-harvest

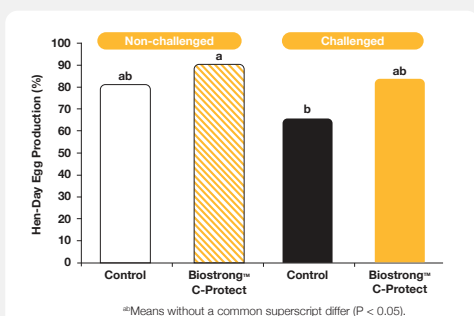
foodborne pathogens through the industry recognized XPC™ postbiotic technology.

### One product helps solve

two common layer challenges, reducing the need for micro bin space in the feed mill.

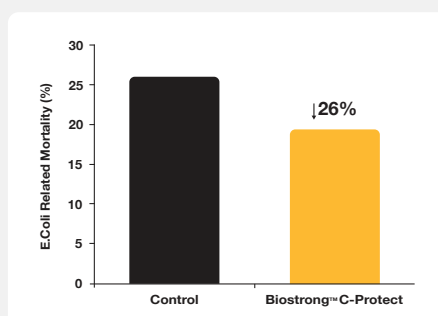
#### Biostrong™ C-Protect Increases Egg Production

APEC challenged hens receiving Biostrong C-Protect late in the layer production cycle produced eggs at a rate of 82.9%, significantly higher than the Challenged Control group at 65.5%.



#### Biostrong™ C- Protect Supports Livability

APEC challenged broilers receiving Biostrong C-Protect demonstrated a drop in mortality by 26% compared to the Challenge Control group.



## Micronutrition and health expertise

Cargill Animal Nutrition leads the industry in micronutrition research and testing, delivering feed products that address your common and persistent production challenges.

### Our postbiotic fermentation

process serves as the industry gold standard, producing postbiotics that deliver reliable performance.

### An integrated team

brings together poultry nutrition, health and performance expertise under one roof, helping you get ahead of day-to-day challenges.

