Antimicrobial Reduction

Reduce the reliance on antibiotic growth promotors (AGP) or transition to antibiotic-free production and overcome the antimicrobial resistance challenge.

DSM
BRIGHT SCIENCE. BRIGHTER LIVING.

Reducing the reliance on AGPs

Growing concerns of antimicrobial resistance, market demand, and regulatory changes have led many countries to reduce or completely remove the use antimicrobial growth promoters (AGPs)

- Although many countries no longer allow the use AGPs, few still rely on their effects of disease mitigation and nutrient absorption, and trying to reduce their reliance on antimicrobials
- With removal of antimicrobials, the health and nutritional challenges that could be of gut origin have become prominent in poultry operations
- Therefore, the needs for antimicrobial management in poultry production are:
  - ▶ Finding effective alternatives for antimicrobials including AGPs
  - ▶ Reducing reliance on antimicrobials and AGPs by lowering their inclusion
  - ▶ Overcoming the risk of antimicrobial resistance

Antimicrobial Reduction Portfolio Offering

Antimicrobial management includes changes in production and feed formulation to support a balanced microbiome of the bird while also continuously and consistently monitoring the flock for any health or nutrition challenges. A **synbiotic** supports competitive exclusion and intestinal integrity which reduces the incidence of pathogen colonization. A novel **precision-biotic** redirects protein away from opportunistic pathogens and towards productive microbial protein metabolism. **Reducing bacterial cell debris** which is blocking nutrient absorption in the gut wall supports optimal feed efficiency. A comprehensive **mycotoxin risk management** strategy helps to reduce the risk of mycotoxins predisposing the birds to pathogenic diseases. It is important to have a monitoring system in place, like **blood biomarker modeling,** to prevent health issues before they happen. Similar to monitoring the health of the birds, the environmental footprint can be calculated for **sustainability measurements** to understand differences from before and after changing flocks.

PoultryStar® Symphiome™ Mycofix® Balancius®

Sustell™ Verax™ Crina® Poultry Plus

PI_AGPmanagement_P_EN_0423_ECD