

ANTIBIOTIC USE

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Minerva S.A., a producer and marketer of fresh and frozen beef and lamb, industrialized protein products, and byproducts (beef, lamb, broiler, pork, fish, eggs and milk), aiming to conduct all its operations under effective risk management, establishes and communicates to all stakeholders its global guidelines regarding the use of antibiotics:

1. The Company recognizes the importance of maintaining the effectiveness of antibiotics for human and animal health and works to minimize the development of antimicrobial resistance. We understand that good animal management and welfare practices directly contribute to preventing diseases and reducing the use of antimicrobials. In this context, we share information on the subject throughout the value chain, promote initiatives related to animal health and nutrition, and perform post-slaughter testing to monitor potential chemical residues.
2. Minerva seeks to maintain and obtain certifications that ensure animals receive adequate nutrition, handling practices aligned with high animal welfare standards, and a guarantee of no prophylactic or metaphylactic use of antibiotics throughout their lifetime.
3. The Company is aligned with global awareness trends on this topic, in accordance with guidelines from the World Health Organization (WHO)¹, the Global Roundtable for Sustainable Beef (GRSB)², and the World Organization for Animal Health (WOAH)³.
4. Minerva supports beef producers, veterinarians, and other stakeholders in the livestock value chain in adopting the following practices to maintain herd health and animal welfare:
 - Establish a herd health plan and ensure access to veterinary assistance, including preventive measures to refine, reduce, and whenever possible, replace the use of antimicrobials. Perform periodic reviews of the health plan;
 - Prioritize animal welfare with a focus on handling and vaccination for disease prevention, administering treatments only when necessary;
 - Ensure that treatments are administered by properly trained professionals and according to label instructions;
 - Dispose of expired antimicrobials in accordance with manufacturer recommendations;
 - Maintain treatment records including date, disease diagnosis, antimicrobial name, dosage, and withdrawal period;
 - Prioritize the use of antimicrobials considered of low importance to human medicine and use the Highest Priority Critically Important Antimicrobials (HPCIA) only as a last option, provided doing so does not delay effective treatment or compromise animal health and welfare;

POLICY

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- Do not use antimicrobials for prophylactic or metaphylactic purposes, except for ionophores used to improve feed efficiency.

¹<https://www.who.int/publications/i/item/9789241515528>

²<https://www.inalca.it/wp-content/uploads/2018/09/GRSBAntimicrobialStewardship-FINAL.pdf>

³<https://www.woah.org/en/what-we-do/publications/>

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