

# NUCLEOFORCE

## Livestock

Natural Growing  
Inner Protection



Optimize the immunity of  
**PIGS AND POULTRY**

# NUCLEOFORCE Livestock

**Nucleoforce Livestock™** is a source of concentrated and balanced free **nucleotides** and active precursors obtained from yeast.

The unique composition of **Nucleoforce Livestock™** has been designed to meet precisely and specifically the needs of monogastric animals (pigs, poultry), helping to optimise the development of the **immune and digestive systems**.



**HIGH NUCLEOTIDE  
CONTENT**

Nucleotides, as elemental biomolecules of DNA and RNA, are involved in biochemical and cellular processes where there is a high rate of multiplication of genetic material, protein synthesis, cell replication and tissue

maturation. This mainly affects animals in young ages and in challenges of the immune system. **At young ages the immune system and the intestinal system are the two tissues with the highest replication rate, and their rapid maturation and development is very important for a good start of the production.**

**Nucleoforce Livestock™** helps to strengthen the immune and digestive system in young animals during the rapid maturation phase of the immune and intestinal system. Nucleotides represent a component with great potential to reduce the use of antibiotics in animal production, because of their capacity to promote the correct development and maturation of the intestinal system in several animal species.



**Nucleoforce Livestock™** is a product of **natural origin**. Its origin and entire production process are focused on the circular economy. It is a co-product of the agri-food industry which, after being processed, becomes a high value-added raw material for the production of compound feed.



## MAIN EFFECTS ON THE LIVESTOCK:

- Modulates the adaptive response of piglets to weaning stress. <sup>1</sup>
- Reinforces the intestinal development in young animals. <sup>3</sup>
- Proven effect on the incidence of diarrhoea in piglets. <sup>2</sup>
- Positive effect on zootechnical parameters in piglets from mothers fed with nucleotide supplements. <sup>4</sup>
- Proven effect on live weight, body weight gain, and feed conversion rate in early stage broilers. <sup>5</sup>
- Strengthens the immune system of broilers poisoned by mycotoxins. <sup>6</sup>

1. Effects of dietary nucleotide supplementation on growth performance and hormonal and immune responses of piglets. Superchi P, et al. *Animal*. 2012 Jun;6(6):902-8.

2. Dietary nucleotide supplementation reduces occurrence of diarrhoea in early weaned pigs. Martínez-Puig D, et al. *Livestock science* 2007 v.108 no.1-3 pp. 276-279.

3. Study report. Rebuilding of intestinal mucosa in weaned pigs fed with the diet supplemented with nucleotides, immunohistochemistry studies. Department of Physiological Sciences. Faculty of Veterinary Medicine, Warsaw Agricultural University 2007. *Livestock Science* 123(2-3):215-220 2009.

4. Dietary nucleotide supplementation in sows during lactation: effects on piglets performance and mortality. S. Segarra, L. Pérez, E. Fabian, E. Borda & A. Palomo. 9th European Symposium of Porcine Health Management.

5. Efficacy of a nucleotide preparation in broiler chickens. E. D. Martínez-puig, E. Borda & C. Chetrit. 16th European Symposium on Poultry Nutrition 2007.

6. The role of dietary nucleotides in reduction of DNA damage induced by T-2 toxin and deoxynivalenol in chicken leukocytes. T. Frankic, T. Pajk, V. Rezar, A. Levart, J. Salobir. *Food and Chemical Toxicology* 44 (2006) 1838-1844.

# BIOIBÉRICA

**MORE THAN 40 YEARS IMPROVING THE HEALTH AND WELL-BEING OF PEOPLE, ANIMALS AND PLANTS.**

Since 1975 we have identified and developed biomolecules of high biological and therapeutic value, which are transformed into high quality **products for the pharmaceutical, nutraceutical, veterinary, food and agricultural industries.**



Our production model is based on the use of raw materials of animal origin in the most efficient way. We guarantee **full traceability and quality control** throughout the production process. We process the raw material in our 9 state-of-the-art manufacturing facilities, which comply with the most restrictive and up-to-date regulations and standards of good manufacturing practices (GMP/GMP+).

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