

NEW
PRESENTATION

ImPROmune[®]

Palatable paste

YOUR REFERENCE PRODUCT FOR
THE IMMUNE SYSTEM¹
NOW EASIER TO ADMINISTER



Bioiberica

Taking life science further

C/Antic Camí de Tordera, 109-119
08389 Palafolls (Barcelona)

ImPROmune®

Palatable paste



ESPECIALLY RECOMMENDED FOR

- **Puppies:** immature immune systems, parvovirus, first vaccinations, etc.
- **Small breeds of dog and cats:** bacterial infections, viruses, fungal infections and parasites (leishmania), immunosuppressant medication, etc.
- **After a prolonged stay at the vets** (physiological stress)
- **Dogs and cats with gingivitis and/or other mouth problems**
- **Older animals with immunosenescence and difficulty swallowing tablets**



Your reference product for the immune system¹

Nucleoforce® · AHCC

Ingredients:

Each palatable tablet contains :

- Nucleoforce® (Yeast extract *S. cerevisiae* with Nucleotides).....585 mg
- AHCC (*Lentinus edodes*, mushroom).....315 mg
- Magnesium stearate

Each ml of paste contains:

- Nucleoforce® (Yeast extract *S. cerevisiae* with Nucleotides).....14,62%
- AHCC (*Lentinus edodes*, mushroom).....7,88%

Presentation:
In containers of 20 or 40 tablets, pouches of 200 tablets or a 30 ml syringe of palatable paste

Each clinical package contains
20 blister packs of 10 tablets or 12 dispenser sachets.

Storage conditions:

Store in a cool, dry place.

Description:

IMPROMUNE® is a food supplement recommended for cats and dogs to strengthen their immune systems and to boost any innate or adaptive response².

Nucleoforce® is a specific Nucleotide formulation developed after studying the specific needs of different species of mammals. Nucleotides are semi-essential immunonutrients which, when taken orally, contribute to the correct development of the immune system. Nucleoforce® regulates phagocytic activity of macrophages as well as the

interaction between these and T lymphocytes. It also regulates the maturation, proliferation and activity of T lymphocytes. AHCC is an extract from the mycelium of *Lentinus edodes*, which regulates NK cell activity, as well as macrophage proliferation and differentiation of T to Th1 lymphocytes.

Different studies have shown that in combination, Nucleoforce® and AHCC have a synergic effect that acts on innate and adaptive responses. This SYNERGIC EFFECT has been patented.

YOUR REFERENCE PRODUCT FOR THE IMMUNE SYSTEM¹



IMPROMUNE® contributes to the correct development of the IMMUNE system as it acts SYNERGICALLY²:

- Both innate and adaptive responses
- Both cell and humoral responses



IMPROMUNE® provides all the essential ingredients that contribute to the correct development of the immune system in various situations^{3,4,5}:

- Infections
- Medical immunosuppression
- Physiological stress
- Pets likely to suffer from any of the above situations



UNIQUE combination:

- Specific nucleotide profile.
- Patented formula, synergic effect: Nucleotides + AHCC
- Excellent safety profile



PALATABLE presentations

Recommended use^{3,4,5}:

Recommended for use in immunocompromised dogs and cats such as:

	Use of IMPROMUNE®
Infectious processes	
• Bacteria (e.g. pyogenic infection), viruses (e.g. calicivirus, papillomatosis), Parasites (e.g.: demodicosis, giardia), fungal infections (e.g.: ringworm, Malassezia)	Minimum duration 15-20 days
• Leishmania	Minimum duration 6 months
Acquired immunosuppression	
• Administration of immunosuppressants (e.g. glucocorticoids)	Before and after treatment, 15-20 días
• Chemotherapy	Before, during and after chemotherapy, 15-20 días
• Elderly animals, immunosenescence	Minimum duration 30 days
• Stress	
• Postoperative/post-multiple trauma conditions (e.g. Caesarean section, pyometra)	Minimum duration 30 days
• Reproduction (e.g. lactation, large litters)	Minimum duration 30 days
• Puppies (e.g.: around vaccine period)	Minimum duration 30 days
• Malnutrition	Minimum duration 30 days

Posology and method of administration:

IMPROMUNE® is easy to administer because it is very palatable. The design of the tablets means they can be split to make it easier for smaller animals to ingest.

Depending on the situation, and the animal's progress, the administration period can be extended at the veterinarian's discretion.

IMPROMUNE® does not produce any adverse effects.

Weight of animal	Daily tablets	Daily dose
< 10 kg	½	2 ml
11 - 25 kg	1	4 ml
> 26 kg	2	8 ml

1, Informe petSellout March 2020.

2, Evangelio Sánchez E., Borda E., Tecles Vicente F., Martínez-Puig D., Cerón Madrigal J.J., Chetrit, C. 10th Congress of The European Society of Veterinary clinical Pathology, Barcelona, 2008,

3, Romano V, Martínez-Puig D, Torre C, Iraculis N, Vilaseca LJ, Chetrit C, Journal of Animal Physiology and Animal Nutrition Journal compilation, 2007

4, Segarra S, Miró G, Montoya A, et al. Randomized, allopurinol-controlled trial of the effects of dietary nucleotides and active hexose correlated compound in the treatment of canine leishmaniosis, Vet Parasitol, 2017;239:50-56,

5, Segarra S, Miró G, Montoya A, Pardo-Marín L, Teichenné J, Ferrer L, Cerón JJ, Prevention of disease progression in Leishmania infantum-infected dogs with dietary nucleotides and active hexose correlated compound, Parasit Vectors. 2018 Feb 21;11(1):103