

ACARISIN™ ORGANIC EU

An innovative solution for the organic animal feed industry. A high-quality technical product combining regulatory efficacy with environmental sustainability, specifically designed to meet the most demanding standards of European organic production.

Manufacturer: INTABIOTECH S.L. - Specialists in Applied Biotechnology



ACARISIN™ ORGANIC EU

Moving Forward In Feed Protection Solutions

ACARISIN™: Proven Efficacy, Now Organically Compliant for Organic Animal Feed

For years, **ACARISIN™** has been synonymous with reliability and efficacy in the protection and improvement of conventional feed. Its recognised functionalities have guaranteed feed quality, contributing to animal health and the optimisation of production processes. The original formulation has proven to be an indispensable tool for maintaining the nutritional integrity and safety of feed in the industry.

Now, we are pleased to introduce **ACARISIN™ ORGANIC EU**, an innovative variation that extends all these proven functionalities to the organic animal feed sector. This new certified formulation has been meticulously designed to comply with the rigorous standards of European organic production, representing a significant step forward in our commitment to sustainability and quality.

Certified Formulation

Compliant with EU Organic Standards

Feed Quality

Adapted for organic animal feed



Sustainability

Reduces environmental impact in production

Applied Innovation

Extends proven functionalities

The ability to apply the same robust functionalities of ACARISIN™ in organic production offers incalculable specific benefits. It enables organic producers to safeguard the quality of their feeds, ensure maximum nutrient absorption, and protect their animals, all while strictly adhering to organic regulations. This translates into greater consumer confidence and the upholding of the ethical and environmental principles governing organic agriculture.

The added value of this version for the organic market is immense. **ACARISIN™ ORGANIC EU** not only facilitates regulatory compliance but also positions our clients at the forefront of innovation in a constantly growing sector. It offers a high-quality technical solution that combines proven efficacy with the increasing demand for sustainable and ecological products, consolidating our leadership in biotechnology applied to animal feed, while providing the product with **TOTAL PROTECTION**.

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ACARISIN™ Technological Innovation: Advanced Science for Feed Protection

ACARISIN™ represents a significant advancement in biotechnology applied to animal nutrition. Its unique formulation and patented mechanism of action offer unprecedented protection against a wide range of threats that compromise feed quality and animal health.

Unique Grain Fusion System (UGFS)

The key to ACARISIN™'s effectiveness lies in its exclusive **Unique Grain Fusion System (UGFS)**. This innovative process enables a deep molecular integration of the active components directly into the grain or feed particle structure. Unlike superficial additives, UGFS ensures homogeneous distribution and lasting stability of the active principles, maximising their bioavailability and resistance to degradation.

Recognised Protection Functions



Protection against Insects and Mites

Effectively controls common pests in feed storage, preventing physical damage and pathogen transmission.



Defence against Certain Bacteria

Acts against specific bacterial strains that can affect feed quality and the gastrointestinal health of animals.



Mycotoxin Neutralisation

Mitigates the harmful effects of mycotoxins, toxic compounds produced by fungi that cause serious health problems.

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Mechanisms of Action and Technological Advantages

ACARISIN™ operates through a multifaceted approach:

01

Active Stabilisation

The components adhere strongly to the feed matrix, forming an internal and external protective barrier against degrading agents.

02

Lasting Effect

The controlled release of the active ingredients ensures prolonged protection throughout the feed's storage and consumption cycle.

03

High Bioavailability

The SFG enhances the absorption of nutrients and protective agents, translating into greater biological efficacy in the animal.

04

Environmental Resistance

The technology provides feed with increased resistance to adverse humidity and temperature conditions, common in storage environments.

Specific Benefits for Animal Species

The use of ACARISIN™ results in tangible improvements in animal health and performance:



Improved Growth

By ensuring the nutritional integrity of the feed, it promotes optimal growth in poultry and other production animals.



Increased Nutrient Absorption

Reduces the degradation of vitamins and minerals, allowing for maximum utilisation of nutrients by the animal.



Immune System Reinforcement

By minimising exposure to toxins and pathogens, it contributes to a more robust and disease-resistant immune system.



Stress Reduction

The comprehensive protection of feed reduces physiological stress in animals, improving their overall welfare.



Certified Premium Composition

ACARISIN™ ORGANIC EU is formulated with selected ingredients that rigorously comply with the European Union's positive lists for organic production, ensuring maximum safety and efficacy.

Ultra-Pure Additive Mineral Salts

High purity mineral raw materials in accordance with Regulation (EU) 2021/1165, Annex III, Part A, Section 11.4.2. Provides optimal pH regulation and medium stabilisation.

Kieselgur (E 551c)

Purified diatomaceous earth authorised as a technological additive. Acts as a binder and anti-caking agent according to Regulation (EU) 2021/1165, Annex III, Part B.

Comprehensive Regulatory Framework

ACARISIN™ ORGANIC EU fully complies with all applicable European regulations, providing complete legal certainty for its commercialisation and use in organic production.

Product Legal Classification

- **Sodium Bicarbonate:** Certified mineral raw material
- **E 551c:** Anti-caking technological additive
- **Conformity:** Regulation (EC) 1831/2003
- **Organic production:** Regulation (EU) 2018/848, Art. 24

"Full compliance with positive lists for organic production, ensuring maximum quality and safety in sustainable animal feed."

Advanced Technological Functionality

ACARISIN™ ORGANIC EU offers multiple technological benefits that significantly improve the quality and stability of feed and premixes, optimising production processes.



Acidity Regulation

Sodium bicarbonate provides precise pH control, maintaining optimal conditions for feed stability and nutrient absorption by animals.



Improved Flowability

Additives E 551b/E 551c eliminate caking, ensuring exceptional flowability in premixes and compound feeds, facilitating their handling and dosing.



Indirect Preservation

Maintains the physico-chemical stability of the feed, preserving nutritional quality and extending the shelf life of the final product.

Guaranteed Certification: Product fully compliant with European regulations for organic production and feed additives.



Physicochemical Characteristics

ACARISIN™ ORGANIC EU exhibits optimised physical properties for easy incorporation and maximum performance in industrial animal feed applications.



Physical Presentation

Fine powder with excellent free-flow capability, designed to facilitate precise dosing and homogenisation in any industrial mixing system.



Visual Appearance

Characteristic colour white to slightly beige, depending on the mineral origin. Uniform appearance ensures the homogeneity of the final product.



Solubility

Partial solubility in water: NaHCO₃ completely soluble, E 551b/c insoluble. pH of 1% aqueous solution: 8.0 – 8.5, ideal for alkalisng applications.

Parameter	Value	Unit
Physical form	Fine powder	-
Colour	White-beige	-
pH (1% sol.)	8.0 - 8.5	-
Flowability	Excellent	free-flow



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Purity Specifications

ACARISIN™ ORGANIC EU complies with the highest standards of purity and quality, exceeding the requirements established by European regulations for animal feed additives.

1

Sodium Bicarbonate

Guaranteed purity $\geq 99\%$ on a dry basis, meeting the most stringent pharmaceutical and food specifications in the European market.

2

Colloidal Silica / Kieselgur

In accordance with the specifications of Regulation (EU) 231/2012 on purity criteria for food additives, ensuring complete safety.

3

Heavy Metals

Content within limits established by Regulation (EU) 574/2011, with systematic analytical controls on each production batch.

4

Non-GMO Guarantee

Product completely free from genetically modified organisms, certified and traceable from the origin of the raw materials.

- ☐ **Quality Control:** Each batch undergoes rigorous analyses including purity, heavy metals, microbiology, and absence of GMOs, guaranteeing maximum safety.



Dosage and Practical Application

ACARISIN™ ORGANIC EU offers flexibility of use, adapting to different formulations and animal species, with optimised dosage guidelines for maximum economic efficiency.

Method of Incorporation

- Direct incorporation into premixes
- Homogeneous mixing in compound feeds
- Compatible with automated systems
- Stable during prolonged storage

Recommended Dosage

Indicative range: 1-3 g/kg of feed or mix

Specific dosage should be adjusted according to:

- Technological objective sought
- Target animal species
- Applicable national regulations
- Specific formulation conditions



"Dosage flexibility allows for cost optimisation while maintaining maximum technical efficacy in each specific application."

01

Formulation Analysis

Evaluate the specific requirements of the feed and animal species

03

Incorporation

Mix homogeneously during the production process

02

Dosage Calculation

Determine the optimal quantity according to technical objectives

04

Quality Control

Verify homogeneity and characteristics of the final product

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Legal Framework and Contact

ACARISIN™ ORGANIC EU is supported by a robust European regulatory framework, offering full legal certainty for its commercialisation and use throughout the European Union.



Organic Production

Regulation (EU) 2018/848, Art. 24 and Implementing Regulation (EU) 2021/1165, Annex III



Feed Additives

Regulation (EC) 1831/2003 and Regulation (EC) 767/2009 for commercialisation



Purity Criteria

Regulation (EU) 231/2012 ensuring maximum quality standards

INTABIOTECH S.L.

Specialists in biotechnological solutions for organic animal feed

Web: www.acarisin.info

Technical and commercial information available

"Sustainable innovation for responsible and effective animal nutrition"



- Technical Support:** Our team of specialists offers personalised advice to optimise the use of ACARISIN™ ORGANIC EU in your specific formulations.

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www.intabiotech.com