



# NutriSelect

Solutions that never compromise nature

Revolutionizing agroecology and rejuvenating the natural environment.

## Next-generation natural products for ecological agriculture and environmental protection

### For Agroecology: Enhancing soil and seed fertility

**NutriSelect PURE:** an intelligently formulated fertilizer containing all essential nutrients

**NutriSelect SEED:** a seed enhancer designed to improve germination and hasten plant emergence

### For the Environment: Restoring natural ecological balance

**NutriSelect RECULTI:** a unique soil reclamation agent for degraded lands to return to their natural states

**NutriSelect AQUA:** a purifying agent for various water bodies, reducing levels of toxic substances

## Closing the economic disparity between ecological principles and the realities of farming

Products from the NutriSelect group are manufactured using radically innovative, science-based, and research-backed technology owned by TiCuNa company, which is fully protected by patents (research work with intensive testing was conducted for several years prior to the company's registration in 2022).

**The NutriSelect technology was developed using nanotechnology, quantum compression, and algorithmic matrices, all supported by artificial intelligence. This unique combination enables a precise optimization process for the final product composition. It is based on a proprietary calculation algorithm that considers over 100 organic and mineral materials, each with varying elemental mineral compositions and organic compound ranges.**

All NutriSelect products adhere to the environmental protection standards set by the European Union, which are among the most rigorous in the world. Additionally, they align with the 17 UN global goals, promoting the production of safe and nutritious food while supporting the agricultural sector's commitment to preserving the natural environment.

## One of the most promising technological solutions for the larger-scale ecological farming

*The concept of the NutriSelect technology was inspired by my experiences in the chemical-metallurgical industry, where I created metal alloys with specific chemical compositions from secondary raw materials. Having access to various chemical compositions, I developed optimal blends that allowed for the production of alloys meeting required specifications.*

*I transferred the same mindset to the realm of fertilizer products, which share many similarities. I began by constructing an entire raw material database and used it to create a computational matrix for finding the most suitable compositions.*

***The manufacturing technology of the NutriSelect products takes into account phenomena and combines issues arising from quantum physics, kinetics, chemistry and applied mathematics.***

Jakub Zakrzewski, author of the NutriSelect technology and president of the TiCuNa company

## Application of quantum intelligence to optimize product formulas tailored to specific needs

In formulating all its products, TiCuNa utilizes quantum compression, leveraging phenomena characteristic of quantum mechanics, such as superposition and entanglement, to store and process information more efficiently.

### Quick and easy access to vast array of information

Large datasets (containing characteristics of all organic and mineral components, the chemical composition of soils, types of present pollutants, chemical interactions between different substances, and results from lab tests and field studies) are stored much more efficiently.

### Acceleration of data analysis and calculations

Processing of collected data (to identify optimal proportions of selected components for products and their interactions with soil and pollutants) can be performed much faster.

## Utilization of the proprietary algorithms in the formulation process of all NutriSelect products

An in-house developed algorithm represents an advanced tool for optimizing product formulas by utilizing accumulated data.

### **Chemical interaction modelling**

The algorithm analyses potential chemical reactions between fertilizer or sanitizer ingredients and contaminants in the soil, identifying combinations that are most effective in providing nutrients or removing contaminants.

### **Composition optimization**

Drawing from the modelling of chemical interactions and analysis of soil and plant requirements, the algorithm determines the optimal proportions of components in the product to ensure the most effective soil regeneration, pollutant removal, and support for plant growth.

### **Simulations and testing**

Leveraging the algorithm, simulations of product performance under diverse environmental conditions can be conducted, facilitating a preliminary assessment of their effectiveness and safety before undergoing real-world testing.

## TiCuNa: A great ecological hope for global agriculture originating from the European Union

A Polish family-owned biotechnology company, offering next-generation organic-mineral products for ecological agriculture and environmental protection under the NutriSelect brand. TiCuNa's flagship solution for enhancing soil fertility is the NutriSelect PURE product.

It is the proprietor of the patent and the manufacturer of all products from the NutriSelect group. The company continues intensive research and development work to expand its product range in accordance with the mission:

**We support farmers, gardeners, breeders, and the natural environment by offering products that create conditions for the production of safe and nutritious food, ensuring the well-being of current and future generations.**

TiCuNa operates not only within the EU but also internationally, actively promoting sustainable agriculture worldwide.

## Jakub Zakrzewski (1979): founder of TiCuNa and the author of its technological innovations

- A graduate of the University of Environmental Protection (specializing in Environmental Protection and Management in Environmental Protection) and Brian Tracy University, convinced of the professional necessity of combining advanced management methods with activities for sustainable development.
- Having served as a longtime manager overseeing an aluminium alloy foundry, he focused his efforts on initiatives aimed at optimizing production processes by integrating new smelting technologies with sustainable development principles.
- Simultaneously, during nearly a decade of managing logistics for the Azoty Group in international synthetic fertilizer sales, he embarked on his own quest for solutions in the realm of ecological fertilization.

**A great lifelong enthusiast of sustainable and ecological solutions for agriculture, with a keen interest in reducing the negative impacts of agricultural practices on the natural environment while enhancing agricultural efficiency.**



We would be pleased to assist you with any further inquiries and to accept your initial orders for our NutriSelect products.

If you are particularly interested in NutriSelect PURE, our flagship fertilizer product, we encourage you to review our dedicated presentation for this product.

Additionally, if you are potentially interested, let's discuss the possibility of collaborating to build a distribution network or establishing a production joint venture (JV) at suitable facilities within one of our preferred markets.

**TiCuNa Team**