

# AGRARIUS<sup>🌿</sup>

2025



NANUS



MAXIMUS



ALGORION



CALCUS



POWERION



NODROPION

GOING TO



INNOVATIONS  
VARIED CONDITIONS  
**THE FUTURE**

YOUR NEEDS

INNOVATIONS

**Why choose AGRARIUS?**

**Higher Yields**

Thanks to our technology, farmers can maximize the potential of their crops. As a result, yields can increase by up to 50%.

**Sustainable Solutions**

We offer proven and tested products that help achieve better results while simultaneously reducing production costs.

**Savings on Fertilization**

Our innovative solutions allow for a reduction in expenses associated with the use of expensive chemical fertilizers.

# The future of farming on the orbit of Innovation!

AGRARIUS combines innovation and sustainability to deliver technological solutions that enhance crop productivity while minimizing fertilization costs.

Through expert knowledge and cutting-edge products, we help farmers achieve maximum results, while caring for the soil and the environment.

Our products increase yields by up to 50%, blending science with the power of nature to provide solutions tailored to the unique needs of every farm.

The strength of AGRARIUS lies in its experienced agrotechnical advisors, who support farmers at every stage of crop development, provide comprehensive on-site consultations, and ensure access to specialized knowledge through 298 retail locations.

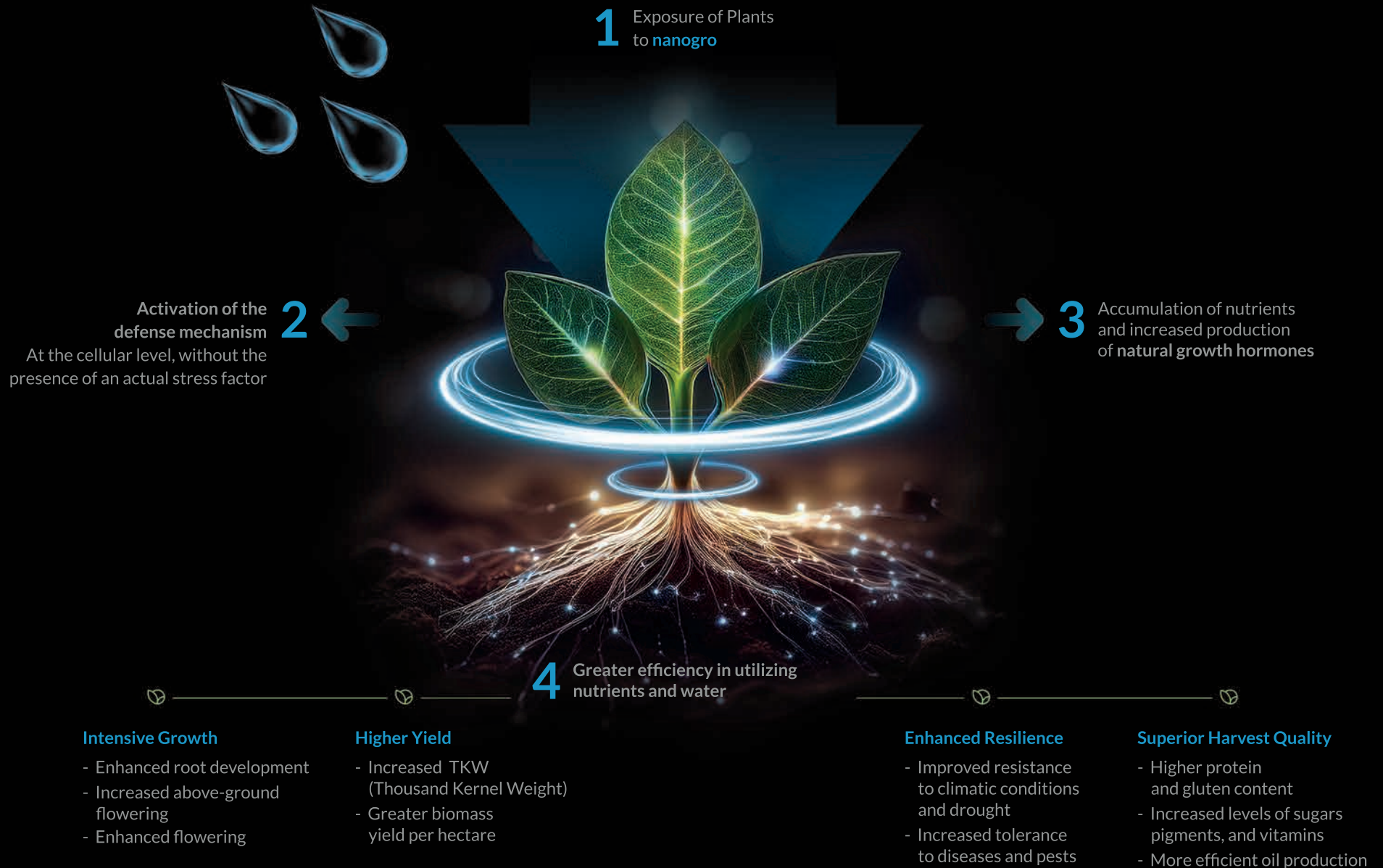
## Technologies for modern agriculture!

Nanogro is a one of a kind, world-class technology that, through its innovative composition, stimulates plant responses to ensure maximum growth and an unbreakable protective barrier for your crops.

Nanogro can boldly be described as „rocket fuel for plants”—proven results from thousands of farmers are undeniable evidence that with nanogro technology, you'll break beyond the boundaries of traditional agriculture and reach new horizons of crop efficiency.



# How nanogro works



# PRODUCT CATALOG 2025



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# Stimulants and Supporting products

Plant growth stimulants are innovative products designed to support plant development and yield. They aid plants weakened by adverse weather conditions, strengthen their resilience and durability, and directly enhance regeneration and efficient crop production capabilities.



Find out more on our website:  
[www.agrarius.eu/spwen/](http://www.agrarius.eu/spwen/)





AGRARIUS

nanogro  
aqua

STYMULATOR WZROSTU  
kompleksowa opychwa na metabolicznym poziomie  
zwiększa odporność na warunki stresowe  
przyczynia się do wzrostu plonów



250 ml

NANUS





# nanogro aqua

## WELCOME TO THE PLANET NANUS – WHERE PLANT GROWTH REACHES FOR THE STARS!

*Nanogro aqua is a plant growth stimulator that acts as a powerful impulse, supporting plant development from the roots all the way to the above-ground parts. In the atmosphere of this extraordinary planet, nanogro aqua penetrates the plants, optimizing crop growth and increasing their resistance to environmental stresses. It is a precise solution that supports plants in any condition, guiding them toward higher yields, as if charting a new path in the agricultural universe*

### COMPOSITION:

Sulfates of elements (N, P, K, S, Mg, Ca, Na, Fe, Cu, Zn, Mn, B, Si) at nanomolar concentrations, next-generation humic acids derived from lignin processing.

### DOSAGE:

CULTIVATION	DOSE	APPLICATION
Agricultural crops	250 ml/max. do 200 l of water/ha	1-2 treatments per season
Fruit trees and shrubs	375 ml/max. do 400 l of water/ha	2-4 treatments per season
Vegetables and herbal plants	250-375 ml/max. do 200 l of water/ha	2-4 treatments per season
Ornamental plants	25 ml/max. do 20 l of water	1-2 treatments per season



### Available packages:

250 ml | 5 L

### MECHANISM:

Nanogro is an original and highly effective product based on nanomolar concentrations of several elements, prepared using an innovative method. It acts as a unique „vaccine” that strengthens plant immunity. Its action focuses on directing the plant’s internal mechanisms toward defensive and anti-stress responses.

The addition of highly active humic substances to nanogro further enhances plant resilience by promoting rapid nourishment and stress reduction. Nanogro activates natural defense processes in the plant, such as the accumulation of nutrients in cells, the development of a strong root system, thickening and strengthening of cell walls, improving overall plant health, and creating additional protective barriers (such as waxes, hairs, etc.).

The effect of nanogro is demonstrated in rapid plant growth and improved quantity and quality of the yield (higher starch, sugar, protein, and oil content, etc.). This has been confirmed by years of research and practical experience. Nanogro also supports the plant’s resistance to stress and accelerates recovery from damage (e.g., frost, mechanical, and chemical damage). In nanogro, it’s not only the composition that is central to its action, but above all, our technology for the proper preparation of sulfates in an optimal formulation, concentration, and activation. This ensures that they immediately penetrate the plant, triggering a response at the intracellular level. The combination of ingredients in the correct proportions, along with their preparation through special procedures, allows nanogro’s components to penetrate the cell and be captured by signaling proteins, which activates the plant’s defense mechanisms. This defensive response manifests in the production of hormones by the plant, the uptake of nutrients, and the accumulation of reserve substances. The result is better nourishment of the plant, denser cytoplasm, and stronger cell sap (increased tolerance to low temperatures, reduced damage after frost). The effects of nanogro are long-lasting, as the acquired resistance and strengthening of the plant persist throughout its growing season.

### BENEFITS OF USE:



Promotes increased root mass and above-ground plant growth



Ensures higher yields with excellent quality



Strengthens plant resistance to stress conditions

AGRARIUS<sup>®</sup>

## Naturalny Plon XM

PREPARAT ZAWIERAJĄCY  
EKSTRAKT Z ALG MORSKICH I HUMINY  
kompleksowo regeneruje rośliny po uszkodzeniach  
oraz zwiększa odporność roślin na stres

1L



ALGORION

# Naturalny Plon XM

## PLANET ALGORION – WHERE NATURE REGENERATES CROPS!

On the planet Algorion, Naturalny Plon XM acts like a driving force for the regenerative abilities of plants. Thanks to the exceptional properties of seaweed extract, plants renew themselves by strengthening their roots and stems, allowing them to better face challenging conditions. The product supports regenerative processes, helping plants recover to full strength even after intense stresses. Algorion is a place where crops grow in harmony with nature, ready for any cosmic energy expenditure after the use of plant protection products and fertilizers.

### COMPOSITION:

50% seaweed extract (amino acids – full spectrum), alginic acid, iodine, mannitol, phytoalexins, laminarin, and polyamines. 50% next-generation humic acids derived from processed lignin, trace elements (N, P, K, S, Mg, Ca, Na, Fe, Cu, Zn, Mn, B, Si) in minimal quantities, dry matter 10%, pH 8.0-10.0.

### DOSAGE:

CROP	DOSE	APPLICATION
Agricultural crops	1 l/200-300 l of water/ha	2-4 times per season
Vegetable crops	1-2 l/300-450 l of water/ha	2-4 times per season
Fruit trees, shrubs, and strawberries	2-3 l/400-600 l of water/ha	3-4 times per season: before flowering, after flowering, 1-2 times during fruit growth
Watering young plants	0,1 l/10-15 l of water	
Frost/heat protection	As per the table above, apply 2-3 days before expected frost or heat. Regeneration can be repeated after 7-10 days	
Regeneration after damage from plant protection products	As per the table above, apply immediately after noticing symptoms	



### Available packages:

250 ml | 1 L | 5 L | 20 L

### MECHANISM:

Naturalny Plon XM is a plant growth stimulant that provides immediate support for plant regeneration after damage caused by chemicals, hail, frost, and drought. This innovative biostimulant is absolutely unique in its composition, combining a full spectrum of plant amino acids, *Ascophyllum nodosum* seaweed extract, and next-generation humic substances. It represents a breakthrough in agrotechnology – a product that is quickly absorbed by the plant and immediately impacts its recovery.

It can be used in agricultural, vegetable, and orchard crops, as well as in ornamental plant and herb cultivation. This unique formulation, containing seaweed, amino acids, and humic substances, effectively supports crop growth and has a positive impact on plants. It works holistically, promoting the formation of root hair zones and inducing the development of lateral branches. As a result, plants are able to make better use of water and nutrients from the soil, leading to higher quality yields.

Regular use also contributes to a noticeable improvement in yield performance. The seaweed-based biostimulant has regenerative properties, making it suitable for use in crops that have been damaged by herbicides or other external factors, such as rainfall, drought, or low temperatures. The seaweed extract further enhances the plant's resistance to stress.

### BENEFITS OF USE:



Regenerates crops after chemical, mechanical, and environmental damage



Increases the efficiency of the photosynthesis process



Supports the formation of new root hairs and improves plant health





## nanogro forte superstart

### FOR SEED AND PLANTING MATERIAL TREATMENT

A specialized product designed for treating seeds, tubers, bulbs, and roots. The growth stimulator begins working from the moment of seed, bulb, and tuber germination, enhancing their resistance, promoting uniform germination, and making them more resilient to environmental stresses. Additionally, it improves metabolism and root development, ensuring proper water and nutrient supply to the plants. It can be used as an additive to standard chemical seed treatment.

#### COMPOSITION:

Sulfates of elements (N, P, K, S, Mg, Ca, Na, Fe, Cu, Zn, Mn, B, Si) in nanomolar concentrations, humic acids of the latest generation derived from lignin processing.

#### APPLICATION:

Winter and spring cereals, rapeseed, corn, legumes, and others: 250 ml per 1 ton of seeds. Grasses: 1 liter per 1 ton of seeds.

## nanogro forte superstart ZIEMNIAK

### POTATO SEEDLING TREATMENT

A plant growth stimulator designed for treating potato tubers. It accelerates sprouting, stimulates root and stolon growth, and enhances the overall metabolism of young plants and tubers, inducing their resistance to diseases and stress. The treatment with this growth stimulator contributes to an increase in both the quantity and quality of the tubers and promotes their uniformity.

#### COMPOSITION:

A concentrated preparation containing sulfates of elements (N, P, K, S, Mg, Ca, Na, Fe, Cu, Zn, Mn, B, Si) in nanomolar concentrations, along with the latest generation humic acids.

#### APPLICATION:

**Potato seedling treatment:** 1 liter per 1 ton of tubers. Add to the seed treatment mixture, mix thoroughly, and proceed with the usual treatment process.



Available packages:

250 ml | 5 L



Available packages:

1 L | 5 L

## Naturalny Plon

### BIOSTIMULATOR

Naturalny Plon is a plant growth enhancer that provides immediate support for plant regeneration after damage caused by chemicals, hail, frost, and drought. This innovative biostimulator is truly unique in its composition, combining a full spectrum of amino acids, an extract of the marine algae *Ascophyllum nodosum*, and the latest generation humic substances. It represents a groundbreaking advancement in agricultural technology – a product that is rapidly absorbed by plants and has an immediate effect.

#### COMPOSITION:

50% seaweed extract (amino acids – full spectrum), alginic acid, iodine, mannitol, phytoalexins, laminarin, and polyamines. 50% humic acids of the latest generation derived from processed lignin.

#### APPLICATION:

For agricultural, vegetable, and orchard crops: 100-200 g/200-600 l of water/ha. For regeneration after damage: 200 g/200-600 l of water/ha.



Available packages:

200 g | 1 kg | 5 kg | 10 kg

## Lignohumat Super

### HUMIC ACIDS

A concentrated humic product of the latest generation, consisting of a mixture of highly active humic acids (humic and fulvic). It is designed to improve soil structure, fertility, quality, and moisture retention, while also supporting plant growth, rooting, and yield. It is intended for use as a soil application or for fertigation.

#### COMPOSITION:

Humic acids (90%), including humic acids and approximately 15-20% fulvic acids, along with trace amounts of potassium, sulfur, and micronutrients.

#### APPLICATION:

**Soil application:** 2-3 weeks before sowing or planting, 1 kg/200-300 l of water/ha.



Available packages:

500 g | 1 kg | 5 kg | 10 kg

# Microbiological Preparations

High-quality microbiological preparations with targeted action and high concentration contain carefully selected strains of microorganisms, such as bacteria, fungi, and Actinomycetes. The purpose of using microbiological preparations is to support plant growth and nutrition, break down organic matter, and improve soil structure.



Find out more on our website:  
[www.agrarius.eu/pmen/](http://www.agrarius.eu/pmen/)





MAXIMUS



# bi complex max ECO

## PLANET MAXIMUS – WHERE THE SOIL PROVIDES MAXIMUM POTENTIAL!

On the planet Maximus, plants thrive in perfect conditions where the soil teems with life, thanks to bi complex max. This place is a true paradise for crops, as the microorganisms that permeate the soil ensure its fertility and ideal structure for the healthy development of roots and the above-ground parts of plants. On Maximus, plants gain exceptional resistance to environmental stresses, and their growth is supported through the breakdown of organic matter and the delivery of essential nutrients.

### COMPOSITION:

*Bacillus subtilis*, *Bacillus megaterium*, *Bacillus azotofixans* at in concentration of at least  $1 \times 10^9$  CFU per 1 gram of product.

### DOSAGE:

CROP	DOSE	APPLICATION
Field crops	1 kg/200-350 l of water/ha	1-2 times per season
Field vegetable crops	1 kg/200-350 l of water/ha	2-4 times per season
Protected vegetables	50 g/60-100 m <sup>2</sup>	2-10 times per season (every 10-14 days)
Fruit trees and shrubs	1 kg/400-600 l of water/ha	3-4 times per season
Strawberries, raspberries	1 kg/200-400 l of water/ha	3-4 times per season

It does not replace basic fertilization.



### Available packages:

100 g | 1 kg | 5 kg

### MECHANISM:

The bi complex max product contains concentrated rhizosphere microorganisms that accelerate plant growth, facilitate fruit set, improve crop resistance, and positively impact yield size. This microbiological product naturally improves the phytosanitary condition of the soil and strengthens plants. The microbiological fertilizer, based on carefully selected *Bacillus species*, aids in the decomposition of organic residues and supports the provision of nutrients to plants.

*Bacillus* bacteria are very common in our climatic zone. These saprophytic bacteria naturally break down organic compounds of plant origin, particularly pectins and carbohydrates. *Bacillus* bacteria produce mucus that increases soil moisture within the root systems of plants, as well as cover the roots with a special protective film that shields them from the adverse effects of drought and stabilizes soil colloids.

Bi complex max naturally contributes to the reduction of pathogenic bacteria and fungi, significantly improving the phytosanitary condition of crops and soil structure. The phosphorus bacteria in the product make phosphorus available to plants from immobilized and bound forms, including phosphates, phosphonates, and phosphites. This allows for the acquisition of up to 20-40 kg of phosphorus in its pure form per hectare of crop, significantly enhancing both the quantity and quality of the yield. Nitrogen-solubilizing bacteria, on the other hand, make nitrogen from the atmosphere available to plants, providing up to 50 kg/ha. The action of the product strengthens soil fertility, improving its structure and health, and significantly boosts yield.

### BENEFITS OF USE:



Provides plants with essential nutrients for development



Strengthens plants while reducing their susceptibility to diseases and stress



Positively affects plant health throughout the entire growth cycle



## bi azot ECO

### NITROGEN- SOLUBILIZING BACTERIA

Bi azot is a high-quality microbiological soil fertilizer that is unique on the Polish market. It contains the special nitrogen-solubilizing bacteria *Bacillus azotofixans*. This product enriches the soil with nitrogen from the atmosphere (up to 50 kg/ha during the growing season), positively influencing plant growth and yield. Its effectiveness has been confirmed through research.

#### COMPOSITION:

*Bacillus azotofixans* in a concentration of at least  $1 \times 10^9$  CFU per 1 gram of the product.

#### APPLICATION:

**Field crops:** 0,5-1 kg/200-350 l of water/ha, 1-2 times per season. **Open field vegetables:** 0,5-1 kg/200-350 l of water/ha, 1-2 times per season. **Protected vegetables:** 25 g/100 m<sup>2</sup>, 2-3 times per season. **Fruit trees and shrubs:** 0,5-1 kg/400-600 l of water/ha, 1-2 times per season. **Strawberries, raspberries:** 0,5-1 kg/200-400 l of water/ha, 2-3 times per season.



Available packages:

100 g | 1 kg | 5 kg | 20 kg

## bi fosfor ECO

### PHOSPHOR- SOLUBILIZING BACTERIA

The microbiological fertilizer bi fosfor contains phosphor-solubilizing bacteria that makes phosphorus available to plants from the soil, positively supporting their growth, yield, and health. The *Bacillus megaterium* bacteria also beneficially affect soil fertility and structure improvement. These microorganisms can make up to 40 kg of phosphorus available per hectare during the growing season.

#### COMPOSITION:

*Bacillus megaterium* in a concentration of at least  $1 \times 10^9$  CFU per 1 gram of the product.

#### APPLICATION:

**Agricultural crops:** 0,5-1 kg/200-350 l of water/ha, 1-2 times per season. **Open field vegetables:** 0,5-1 kg/200-350 l of water/ha, 1-2 times per season. **Protected vegetables:** 25 g/100 m<sup>2</sup>, 1-2 times per season. **Fruit trees and shrubs:** 0,5-1 kg/400-600 l of water/ha, 1-2 times per season. **Strawberries, raspberries:** 0,5-1 kg/200-400 l of water/ha, 1-2 times per season.



Available packages:

100 g | 1 kg | 5 kg | 20 kg

## bi protect ECO

### PLANT HEALTH

A high-quality soil microbiological fertilizer that accelerates the decomposition of organic matter, based on soil bacteria *Bacillus subtilis*. Billions of bacteria in the product improve the sanitary condition of the soil (naturally limiting the presence of pathogenic fungi) and make nutrients available to plants, while also supporting their growth and yield.

#### COMPOSITION:

*Bacillus subtilis* in a concentration of at least  $5 \times 10^9$  CFU per 1 gram of product.

#### APPLICATION:

**Agricultural crops:** 0,5-1 kg/200-350 l of water/ha, 1-2 times per season. **Open field vegetables:** 0,5-1 kg/200-350 l of water/ha, 1-2 times per season. **Protected vegetables:** 50 g/100 m<sup>2</sup>, 2-5 times per season. **Fruit trees and shrubs:** 0,5-1 kg/400-600 l of water/ha, 3-4 times per season. **Strawberries, raspberries:** 0,5-1 kg/200-400 l of water/ha, 3-4 times per season.



Available packages:

100 g | 1 kg | 5 kg | 20 kg

## bi słoma ECO

### CROP RESIDUES

A specially developed microbiological preparation designed to accelerate the decomposition of straw and other post-harvest residues. The action of the bi słoma preparation, based on specific strains of *Bacillus* bacteria specializing in the breakdown of lignin and cellulose, as well as non-pathogenic soil fungi from the *Trichoderma* sp., focuses on the effective and rapid decomposition of hard-to-decompose plant residues such as straw, stems, roots, and leaves.

#### COMPOSITION:

*Bacillus* sp., *Trichoderma* sp. in a concentration of at least  $1 \times 10^{10}$  CFU/spores per 1 gram of product.

#### APPLICATION:

**Agricultural crops:** 1-2 kg/250-400 l of water/ha, for shredded post-harvest residues and straw. **Orchard crops:** 1-2 kg/600-1000 l of water/ha, for soil with fallen leaves and fruit. **Vegetable crops:** 1-2 kg/600-1000 l of water/ha, for shredded residues and soil.



Available packages:

1 kg | 5 kg | 20 kg





## bi safe ECO

### IMPROVEMENT OF THE SOIL'S BIOLOGICAL CONDITION

The action of the product is aimed at improving the microbiological life of the soil and increasing the availability of macro and micronutrient forms. It contains concentrated forms of rhizosphere microorganisms that enhance soil health and structure. These microorganisms are responsible for the transformations of nitrogen, phosphorus, potassium, and other nutrients, while also improving the phytosanitary condition of the crops and naturally reducing the occurrence of pathogens in the plants.

### COMPOSITION:

Carefully selected and tailored strains:  
*Bacillus* sp., *Trichoderma* sp., *Streptomyces* sp. in a concentration of at least  $1 \times 10^9$  CFU/spores per 1 gram of product.

### APPLICATION:

Application to the soil before sowing and planting, as well as in autumn after harvest, on soil with post-harvest residues in the form of a spray, at a dose of 1-2 kg/250-350 l of water/ha.



Available packages:

100 g | 1 kg | 5 kg | 20 kg

## bi versum

### PLANT HEALTH

A specialized microbiological preparation for soil application, improving soil fertility, biological condition, and structure. It contains non-pathogenic fungi from the *Trichoderma* sp., isolated from fertile soil, which naturally reduce the number of soil pathogens. The product is particularly recommended for use in horticultural crops.

### COMPOSITION::

Carefully selected strains of non-pathogenic fungi from the *Trichoderma* sp. in a concentration of at least  $1 \times 10^9$  spores per 1 gram of product.

### APPLICATION:

**Agricultural crops:** 2-5 kg/250-350 l of water/ha, 1-2 times per season. **Orchard crops:** 5-10 kg/350-1000 l of water/ha (depending on the crop), 1-2 times per season. **Vegetable crops:** 2-5 kg/250-600 l of water/ha, 2-5 times per season.



Available packages:

100 g | 1 kg | 5 kg | 20 kg

## bi system24 ECO

### MICROBIOLOGICAL PREPARATION WITH SOIL YEAST ADDITION

Bi system24 is an innovative and unique preparation that demonstrates exceptionally broad activity in supporting plant growth and development, as well as improving soil quality. It combines the potential of specialized PGPB (Plant Growth-Promoting Bacteria) strains and a unique strain of yeast *Yarrowia lipolytica*. Its wide range of actions actively makes nutrients available to plants and enhances soil fertility.

### COMPOSITION:

PGPB bacteria and *Yarrowia lipolytica* in a concentration of at least  $1 \times 10^9$  CFU per 1 gram of product.

### APPLICATION:

**Agricultural crops:** 1 kg/200-350 l of water/ha, 1-2 times per season. **Vegetable crops:** 1-2 kg/200-600 l of water/ha, 1-2 times per season. **Protected crops:** 50 g/100 m<sup>2</sup>, 2-4 times per season. **Orchard crops:** 1-2 kg/200-600 l of water/ha, 1-2 times per season.



Available packages:

1 kg | 5 kg

## bi root

### REDUCTION OF PEST PRESENCE

A soil microbiological preparation that naturally reduces the presence of pests feeding on plant roots, root collars, stems, and leaves. Specially selected microorganisms in bi root colonize the soil and plants, enhancing their resistance to pest attacks such as cabbage fly, root weevils, caterpillars, corn borer, thrips, spider mites, whiteflies, aphids, and other pests.

### COMPOSITION:

Specially selected strains of *Bacillus* sp. in a concentration of at least  $1 \times 10^9$  CFU per 1 gram of product.

### APPLICATION:

**Agricultural crops:** 1 kg/250-350 l of water/ha, 2-3 times per season. **Vegetable and fruit crops:** 2 kg/300-500 l of water/ha, 2-5 times per season. **Watering vegetable seedlings and soaking seedlings:** 25 g/10 l of water.



Available packages:

100 g | 1 kg | 5 kg | 20 kg



## bi terra

### PREVENTS SOIL PESTS

A specialized, soil-applied microbiological product based on carefully selected microorganisms naturally occurring in the soil. The product promotes the natural reduction of soil pests in agricultural, vegetable, and fruit crops, such as wireworms, larvae of rootworms, root weevils, grubs, and other soil pests.

### COMPOSITION:

Carefully selected strains of *Bacillus* sp. bacteria and non-pathogenic saprophytic fungi, in a concentration of at least  $1 \times 10^{10}$  CFU/spores per 1 gram of product.

### APPLICATION:

**Agricultural crops:** 1 kg/250-350 l of water/ha, 2-3 times per season. **Vegetable and fruit crops:** 2 kg/300-500 l of sawater/ha, 2-5 times per season.



Available packages:

100 g | 1 kg | 5 kg | 20 kg

## bi clean

### BACTERIA THAT REDUCE ANIMAL MANURE ODOR

A microbiological preparation based on specially selected microorganisms that are non-pathogenic to livestock, resistant to uric acid and the chemical compounds found in animal manure. It reduces the strong odor of manure in barns, pigsties, poultry houses, and stables. It also facilitates the mineralization and decomposition of manure.

### COMPOSITION:

A specially selected mixture of *Bacillus* sp. in a concentration of at least  $1 \times 10^{10}$  CFU per 1 gram of the product.

### APPLICATION:

Dissolve 20 g of the preparation in 10 liters of warm, non-chlorinated water. Leave it at room temperature for 20 minutes and stir. **Initial Application:** Apply evenly using a sprayer or spraying system (if available), at a rate of 10 liters of solution per  $1 \text{ m}^3$  of manure. **Subsequent applications:** Every 14 days, apply 10 liters of the working solution per  $1 \text{ m}^3$  of manure.



Available packages:

1 kg | 5 kg | 20 kg

## bi clean HOME

### BACTERIA FOR SEPTIC TANKS

Bacteria for septic tanks and biological, household wastewater treatment systems, based on selected, non-pathogenic microorganisms, resistant to the action of uric acid and chemical compounds found in waste. Used as an additive to household wastewater, it supports its breakdown and reduces strong odors in septic tanks and toilets.

### COMPOSITION:

A specially selected blend of *Bacillus* sp. in a concentration of at least  $1 \times 10^{10}$  CFU per 1 gram of product.

### APPLICATION:

Preparation of the working solution:

**First application:** Dissolve the product in 20 g/10 l of lukewarm water per  $1 \text{ m}^3$  of wastewater. **Subsequent applications:** Every 14-21 days, use 10 g/10 l of water per  $1 \text{ m}^3$  of septic tank.

We highly recommend the product *bi clean DRAIN* - ask our advisors about it!



Available packages:

100 g | 1 kg

## bi ferment NEW!

### ADDITIVE FOR DIGESTATE FROM BIOGAS PLANTS

A specialized microbiological additive for digestate mass or liquid used as fertilizer in agricultural crops. It enriches the soil with unique strains of microorganisms that contribute to more efficient use of the nutrients in the digestate by plants, as well as improving soil quality and structure.

### COMPOSITION:

Five strains of bacteria from the species *Bacillus megaterium*, *Bacillus subtilis*, *Bacillus licheniformis*.

### APPLICATION:

Apply as a spray or watering at a rate of 1-3 kg per hectare of cultivated area, regardless of the amount of liquid/digestate mass used.



Available packages:

20 kg



## bi compost

### BACTERIA FOR COMPOSTING

Specially selected microorganisms for composting. They are designed to accelerate the decomposition of organic matter in compost bins and piles. They prevent rotting of waste and improve the quality of compost while neutralizing its unpleasant odor.

### COMPOSITION:

A specially selected mixture of *Bacillus* sp. bacteria, in a concentration of at least  $1 \times 10^9$  CFU per 1 gram of the product.

### APPLICATION:

**Preparation of working solution:** dissolve 20 g of the product in 10 liters of lukewarm water. Leave at room temperature for 20 minutes and stir. **First application:** When setting up the compost bin or pile, spread the solution in the amount of 10 liters per  $1 \text{ m}^3$  of compost. **Subsequent applications:** Every 14-21 days, apply 10 liters of the solution per  $1 \text{ m}^3$  of compost.



Available packages:

100 g | 1 kg | 5 kg | 20 kg

## bi wood

### ACCELERATES THE DECOMPOSITION OF WOOD RESIDUES

This product is designed for use in orchards and forestry plantations to break down organic matter that contains high levels of lignin and cellulose, such as dead roots, trunks, branches, and leaves. The high activity of saprophytic bacteria and fungi accelerates the decomposition of organic matter, transforming it into mineral nutrients and humus.

### COMPOSITION:

A specially selected blend of various strains of *Bacillus* sp. bacteria and saprophytic fungi from the *Trichoderma* sp. in a concentration of at least  $1 \times 10^9$  CFU/spores per 1 gram of product.

### APPLICATION:

**Spraying plantations (soil and trunks):** 3 kg per 500-1000 l of water per hectare. **Watering trunks:** 2,5 g per 0,5-1 l of water per trunk.



Available packages:

1 kg | 5 kg

## bi seed ECO NEW!

### SEED TREATMENT

A specialized microbiological fertilizer used for seed treatment of cereals, other agricultural crops, vegetables, as well as tubers, bulbs, and roots. The preparation increases the number of microorganisms around the plant and naturally protects it spherically against fungal pathogen attacks. The microorganisms contained in bi seed create a protective barrier on the surface of the seeds, preventing the proliferation of other potentially pathogenic microorganisms.

### COMPOSITION:

Highly active, effective, and carefully selected strains of PGPR bacteria, in a concentration of at least  $1 \times 10^9$  CFU per 1 gram of the product.

### APPLICATION:

**Cereals, corn, grasses, vegetables:** 100 g/100 kg of seeds.  
**Potato tubers:** 200 g/1 t of potato tubers.  
**Onions, roots, garlic cloves:** 10 g/10-20 l of water.



Available packages:

100 g | 500 g | 1 kg | 5 kg

## bi water

### BACTERIA FOR WATER PONDS

The product is used for the biological purification of water reservoirs such as ponds, lakes, aquariums, and swimming pools. It inhibits the proliferation of algae and prevents the formation of sediment deposits, without harming the animal organisms present in the water bodies.

### COMPOSITION:

Appropriately selected strains of *Bacillus* sp. bacteria, in a concentration of at least  $1 \times 10^9$  CFU per 1 gram of product.

### APPLICATION:

The product is most effective at temperatures between  $+20^\circ\text{C}$  and  $+30^\circ\text{C}$ . **Closed water tanks, ponds:** **First use:** 1 g of the product per  $1 \text{ m}^2$  of pond surface with a depth of up to 3 meters. **Preventive application:** 1 g of the product per  $1 \text{ m}^2$  of surface, twice a month. **Aquariums:** Mix the product with water in a ratio of 1 g/500 ml of water/ $1 \text{ m}^3$ .



Available packages:

100 g | 1 kg | 5 kg | 20 kg



## bi soya

### BACTERIA FOR SOYBEAN INOCULATION

Pure cultures of symbiotic bacteria *Bradyrhizobium japonicum* immobilized on sterilized, crushed peat, used for seed inoculation of soybeans. These bacteria are involved in the formation of nodules on the plant roots, ensuring their development, increasing resistance to stress conditions, and improving both the quantity and quality of the yield.

### COMPOSITION:

Specially selected symbiotic bacteria *Bradyrhizobium japonicum* in a concentration of at least  $2 \times 10^9$  CFU per 1 gram of product, immobilized on sterilized, crushed peat, intended for soybeans.

### APPLICATION:

**Soybeans: 3 kg per 1 ton of seeds.**



Available packages:

1 kg

## bi lupin

### BACTERIAL INOCULANT FOR LUPINE

Specially selected pure cultures of symbiotic bacteria *Rhizobium lupini* intended for inoculation of seeds of white, yellow, narrow-leaved lupine, and sweet lupine. The product strengthens plants, increases their yield, and enhances the protein content in the seeds.

### COMPOSITION:

Pure cultures of symbiotic bacteria *Rhizobium lupini* in a concentration of at least  $2 \times 10^9$  CFU per 1 gram of product.

### APPLICATION:

**White and yellow lupine: 3 kg per 1 ton of seeds.**  
**Narrow-leaved lupine and sweet lupine: 2,5 kg per 1 ton of seeds.**



Available packages:

1 kg

## bi bean

### BACTERIAL VACCINE FOR BEANS

Carefully selected pure cultures of symbiotic bacteria *Rhizobium phaseoli* inoculated onto sterilized, ground peat, intended for seed inoculation of beans. The product enhances yield efficiency, improves resistance to unfavorable environmental conditions, and increases both the quantity and quality of the bean crop.

### COMPOSITION:

Pure cultures of symbiotic bacteria *Rhizobium phaseoli* in a concentration of at least  $3 \times 10^9$  CFU per 1 gram, fixed on sterilized, finely ground peat.

### APPLICATION:

**Beans: 3-3,5 kg per 1 ton of seeds.**



Available packages:

1 kg

## bi symbio

### BACTERIA FOR SEED INOCULATION OF PEA, BROAD BEAN, VETCH AND CLOVER

A bacterial vaccine based on pure cultures of symbiotic *Rhizobium leguminosarum* bacteria, which play a role in the formation of nodules on plant roots. The product is intended for seed inoculation of peas, field peas, clover, broad beans, vetch, and lentils. The symbiotic bacteria in the product interact with the root system of leguminous plants, providing them with nitrogen and improving both the yield and quality of the crop.

### COMPOSITION:

Pure cultures of symbiotic bacteria *Rhizobium leguminosarum* in a concentration of at least  $3 \times 10^9$  CFU per 1 gram of the product.

### APPLICATION:

**Peas, chickling vetch, vetch, clover, faba beans, field beans: 2 kg per 1 ton of seeds.**  
**Lentils: 2,5-3 kg per 1 ton of seeds.**



Available packages:

1 kg

# Fertilisers

Fertilizers offered by AGRARIUS are created using the latest technologies and specialized mechanisms. Each crop requires special treatment in terms of fertilization and the need for macro and micronutrients. Soil fertilization provides the essential nutrients for plants, while foliar application supplements the necessary micronutrients during the growing season.



Find out more on our website:  
[www.agrarius.eu/nen/](http://www.agrarius.eu/nen/)





AGRARIUS<sup>®</sup>

POWERCOP L

1L

POWERION



# POWERCOP

## PLANET POWERION – WHERE ROOTS HAVE POWER!

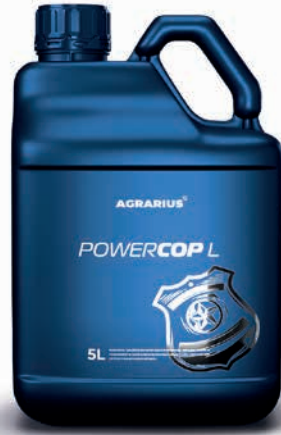
*On the planet Powerion, the root network surrounds the entire surface, symbolizing the strength and stability provided by POWERCOP. This exceptional fertilizer strengthens the plant's root system, giving them solid foundations for growth. On Powerion, plants draw energy from deep within to face tough conditions, growing stronger and healthier. The root is the foundation of every plant — this blue power strengthens crops from the roots, giving them an advantage in every stressful situation.*

### COMPOSITION:

Dry matter 10% (including 50% amino acids and algae extract), K<sub>2</sub>O min. 1%, MgO min. 0,02%, S min. 0,25%, humic acids (C) min. 10 g/l, fulvic acids (C) min. 8 g/l, organic substance min. 40%.

### DOSAGE:

**Foliar fertilization:** 2 l/200-300 l of water/ha, up to 5 times during the growing season. The first application should be during the early growth stages (2-4 leaf stage).



### Available packages:

#### Powder form:

1 L | 5 L

#### Liquid form:

0,5 kg | 1 kg | 5 kg

### MECHANISM:

POWERCOP is an organic-mineral fertilizer containing highly active biological components derived from *Ascophyllum nodosum* seaweed and the latest generation of concentrated humic acids. This product is enriched with plant amino acids that have a regenerative and supportive effect on the plant's root system. It ensures strong adhesion to the plant and quick absorption, facilitated by alginic acid, which also aids in the transport of nutrients from the soil. In addition, laminarin, a polysaccharide in the formula, supports natural plant defense mechanisms, such as strengthening cell walls and promoting the production of resistance proteins.

The fertilizer also contains natural substances like betaine and glycine from seaweed, which have strong anti-stress properties and assist in water usage and energy conversion processes in plants. POWERCOP stimulates chlorophyll production, boosting photosynthesis efficiency. The humic acids it contains significantly improve the development of the root system and enhance the plant's resistance to environmental stress factors such as drought, low temperatures, and pest infections.

The innovative CIT (Cellular Intelligent Technology) process involves a specialized extraction of seaweed components combined with pure, active humic acids. This allows the product to rapidly penetrate plant structures, effectively supporting growth and development.

### BENEFITS OF USE:



Instantly strengthens and regenerates plants and their root system, working comprehensively



Stimulates the development and growth of the root system, especially the root hairs in young plants



Effectively increases plant resistance to stress and improves water use efficiency

**AGRARIUS**

**bi calc+**

NOWOCZESNY  
NĄWÓZ MINERALNY - WAPNO NĄWÓZOWE

z rhizosomy o bakterie z rodzaju Bacillus



20 kg



CALCUS





# bi calc+

## CALCUS – THE PLANET OF SOIL BALANCE!

On the planet *Calcus*, *bi calc+* plays a key role in restoring soil balance. The granules orbiting the planet symbolize the action of lime, which effectively regulates the soil's pH, creating ideal conditions for plant growth and yield. On *Calcus*, every soil gains new strength – unlocking essential nutrients, strengthening roots, and the calcium balance supports its health and fertility. *Calcus* is the planet of *bi calc+*, becoming a stable foundation for abundant harvests!

## COMPOSITION:

Calcium carbonate, bacteria from the *Bacillus* (*B. subtilis*, *B. megaterium* and *B. azotofixans*), and activators of biological functions.

## DOSAGE:

DOSE	APPLICATION
0,5 - 1 t/ha	Apply annually depending on soil acidity and its agronomic category. <i>Bi calc+</i> can be used from spring until late autumn, though the best time for application is after harvesting and in the autumn.
Do not apply immediately before or after the use of mineral fertilizers containing phosphorus and nitrogen in ammonium or amide form, as well as organic fertilizers such as manure, slurry, or liquid manure. It is recommended to wait at least 3-4 weeks between these treatments.	
Do not apply the product on frozen, water logged, saturated, or snow-covered soils.	
<i>Bi calc+</i> should not be used in combination with plant protection products.	



Available packages:

10 kg | 25 kg | 600 kg

## MECHANISM:

*Bi calc+* is a modern, granular lime fertilizer that uses a highly reactive form of calcium carbonate. It is designed for all types of crops, providing essential nutrients and substances that aid in plant productivity, while also promoting the growth of beneficial microorganisms in the soil. This fertilizer is safe for the ecosystem and can be used in both autumn and spring.

The first phase of the product's action involves regulating the pH level of the soil. Given that most soils in Poland are acidic and lack calcium, it is important to provide an adequate supply of this element. *Bi calc+* activates the mineral components that are present in the soil but not readily available. With its use, the soil becomes enriched with all the elements necessary for healthy plant growth, such as phosphorus, potassium, magnesium, sulfur, sodium, copper, zinc, manganese, and iron. Soils treated with *bi calc+* have an improved ability to retain nutrients, making them more available for plant absorption.

The second phase is based on soil activation with *Bacillus* sp. bacteria and biological function activators, which create an optimal soil environment. These bacteria not only accelerate the decomposition of organic matter, but also participate in nitrogen and phosphorus transformations and humus formation. In addition, they naturally protect plants from pathogens and contribute to their increased growth. Lime application increases nitrogen uptake from the air by free-living microorganisms and improves phosphorus availability in the soil. It should be noted that it also stimulates root development, improving nutrient absorption and increasing yield.

## BENEFITS OF USE:



Improves soil pH and activates the nutrients accumulated within it



Contributes to the improvement of soil biological activity and enhances its phytosanitary condition



Helps increase yields and prevents the effects of drought



## GleboMax

### HUMIC ACIDS

GleboMax is a liquid product containing highly active humic acids of the latest generation, along with small amounts of minerals. When used regularly, it improves soil structure, maintaining proper levels of moisture and nutrition. It also increases the amount of humus in the soil. Thanks to the innovative MAT (Micro Absorption Technology), the product works almost immediately after application, penetrating deep into the soil and acting as a binder for mineral components.

### COMPOSITION:

Organic substances, humic acids (humic and fulvic), trace amounts of nitrogen, potassium, and sulfur.



Available packages:

250 ml | 10 L | 20 L  
200 L | 1000 L

### DOSAGE

DOSE	APPLICATION
10 l/200-300 l of water/ha (20 l for very light soils)	In the form of a soil spray, approximately 2-3 weeks before the planned sowing or planting of crops. Apply to the soil surface and mix lightly (up to 15 cm) with the soil.

### BENEFITS OF USE:



Improves the soil's ability to retain nutrients and enhances its absorption properties



Makes essential nutrients available to plants, preventing the leaching of elements from the soil



Accelerates the formation of humus in the soil and improves its biological state

## N Turgor

### NITROGEN FERTILIZER

The specialized foliar fertilizer N Turgor is a groundbreaking product designed to protect plants from adverse conditions caused by water scarcity. N Turgor provides readily available nitrogen, reduces cell dehydration during droughts, strengthens plants, accelerates growth, and invigorates crops.

### COMPOSITION:

Nitrogen with stabilizer 15%, Sodium 2,2%, Manganese 0,1%, Copper 0,01%, Zinc 0,01%, Boron 0,01%, Molybdenum 0,01%, Cobalt 0,001%. Humic substances derived from processed lignin - 30%.



Available packages:

1 L | 5 L | 20 L

### DOSAGE

CROP	DOSE	APPLICATION
Agricultural crops, fruit crops, vegetables	2-3 l/200-400 l of water/ha	2-4 times per season

### BENEFITS OF USE:



Thanks to an innovative stabilization method, it works for up to 100 days after application



It reduces cell dehydration and increases plant resistance to drought



It positively influences the uptake and distribution of mineral nutrients

## AlgoRytm PK

### PHOSPHORUS-POTASSIUM FERTILIZER

A liquid fertilizer with a high content of potassium and phosphorus, enhanced by an extract from marine algae. The product is designed for foliar feeding and is supported by QM6™ technology, ensuring proper plant nutrition during vegetation, while improving plant health and yield. Using the fertilizer provides immediate regeneration and enhances the health of plants exposed to adverse conditions. It ensures a high yield with excellent quality.

#### COMPOSITION:

Phosphorus 13%, Potassium 17,5%, extract from marine algae *Ascophyllum nodosum*.

#### DOSAGE:

**Agricultural crops, orchard crops, vegetables:** 2-3 l/200-400 l of water/ha, 2-4 times per season.



Available packages:

1 L | 5 L | 20 L | 1000 L

## PoliSil

### SILICON FERTILIZER

Foliar silicon fertilizer in suspension form supporting plant resistance to adverse conditions. Silicon helps build natural protective barriers and retains more water in plant cells. It supports the plant's natural ability to defend itself against pests and diseases by strengthening cell walls through silica saturation. Additionally, easily available zinc in the fertilizer supports plant resistance to diseases and enhances nitrogen fertilization efficiency.

#### COMPOSITION:

Silica in various forms 40%, Zinc 2%.

#### DOSAGE:

**Agricultural crops, orchard crops, vegetables:** 1-2 l/200-300 l of water/ha, 2-3 applications per season.



Available packages:

250 ml | 1 L | 5 L

## Calory

### CALCIUM FERTILIZER

A specially formulated foliar calcium fertilizer with a unique suspension composition that can be used throughout the entire growing season. It provides easily absorbable calcium in ionic form and ensures optimal metabolism of nitrogen, potassium, phosphorus, magnesium, and iron. Additionally, it improves fruit health and quality, as well as their transport and storage durability.

#### COMPOSITION:

Calcium 15%, Zinc 0,01%, Copper 0,01%, Manganese 0,1%, humic acids derived from lignin processing.

#### DOSAGE:

**Agricultural crops:** 0,5-1 l/200-500 l of water/ha, 2-3 times per season. **Vegetable crops:** 1-2 l/200-500 l of water/ha, 4-6 times per season. **Orchard crops:** 1,5-2 l/200-500 l of water/ha, 4-8 times per season.



Available packages:

250 ml | 1 L | 5 L

## full terminator

### POST-HARVEST RESIDUE DECOMPOSITION

An effective nitrogen fertilizer with micronutrients and humic acids designed to accelerate the decomposition of post-harvest residues. It evenly coats organic matter, adheres easily, and stimulates soil microorganisms to multiply and act more quickly. Suitable for use in all types of crops.

#### COMPOSITION:

Total Nitrogen 15%, Sodium 2,2%, Boron 0,01%, Copper 0,01%, Manganese 0,1%, Molybdenum 0,001%, Zinc 0,01%, humic acids.

#### DOSAGE:

**5 l/200-300 of water/ha:** recommended for direct application to post-harvest residues left after harvesting. Soil cultivation can be performed immediately after application.



Available packages:

5 L | 20 L





# AGRICULTURAL SOLERS

## FERTILIZER FOR AGRICULTURAL CROPS

SOLER is an innovative micronutrient fertilizer in gel form, designed for foliar feeding of agricultural crops. It instantly provides plants with the appropriate proportions of micronutrients, meeting their specific nutritional requirements. QM6™ formula enhances nutrient uptake, accelerating growth and yield, while SILEVEL™ ensures long-lasting effects, retaining nutrients on the plant for better absorption.

In the AGRARIUS offer, we can distinguish various types of fertilizers from the agricultural series:

- SOLER K** (for corn),
- SOLER R** (for rapeseed),
- SOLER B** (for sugar beet),
- SOLER C** (for cereals),
- SOLER P** (for potatoes),
- SOLER L** (for soybeans and legumes),
- SOLER S** (for sunflower).



Available packages:

1 L | 5 L | 20 L

## COMPOSITION:

Content % w/w.

COMPONENT:	SOLER K	SOLER R	SOLER B	SOLER C	SOLER P	SOLER L	SOLER S
Boron	0,50	1,00	1,00	0,10	0,40	0,40	0,40
Copper	2,00	1,50	2,00	2,50	1,50	1,50	1,50
Manganese	3,50	4,00	4,00	4,00	4,50	3,50	4,00
Molybdenum	0,02	0,02	0,02	0,02	0,02	0,02	0,50
Zinc	4,00	3,50	3,00	3,50	3,50	4,00	3,00
Sulfur	12,90	12,30	12,30	13,50	13,10	12,30	11,70

## DOSAGE:

### DOSE

1 l/ha/200-300 l of water, 2-3 times per season.

## MECHANISM:

SOLER fertilizers for agricultural crops, thanks to modern technologies, contain hydrogels based on silicon that trap micronutrients in special „pockets.” The sulfates of elements, being smaller particles than the commonly used chelates, penetrate plants faster and more easily, increasing the efficiency of nutrient absorption. This process ensures more efficient delivery of micronutrients, improving their availability to plants.

Due to the prolonged effect upon contact with the plant, SOLER fertilizers provide nutrients for a long time, ensuring their stable availability. The hygroscopic properties of the product cause it to dry more slowly and, in the presence of moisture, swell easily, maintaining high adhesion to the plants, making it difficult to wash off, even during rainy weather.

The high sulfur content in the fertilizer strengthens plants, has health-promoting, disinfecting, and stimulating effects. These specially formulated agricultural fertilizers address micronutrient deficiencies, ensuring optimal plant growth and supporting crops. The proper dose of boron (B) and molybdenum (Mo) in the fertilizers prevents developmental issues and helps increase yield and its efficiency. Other micronutrients, such as copper (Cu), manganese (Mn), zinc (Zn), and sulfur (S), improve nitrogen utilization efficiency, stimulate the root system, and enhance plant resistance to diseases.

SOLER is safe for crops because it does not contain chlorine. The fertilizer is easy to apply and, as the only comprehensive micronutrient fertilizer, does not contain nitrogen or any unnecessary elements.

## BENEFITS OF USE:



Effectively supplements micronutrient deficiencies in crops, stimulating plants for proper growth and yield



The gel consistency allows for efficient and almost complete absorption



The content of sulfur and systemic copper properly nourishes plants and affects the phytosanitary condition of the crop



# HORTICULTURAL SOLERS

## FERTILIZER FOR GARDEN CROPS

Modern, efficient micronutrient fertilizers in suspension form, developed as a specialized plant nutrition solution for garden plants. SOLER foliar fertilizers contain high concentrations of systemic copper and sulfur, which enhance plant resistance to fungal infections. The micronutrients in the fertilizer support plant development, acting in a strengthening, health-promoting, and stimulating manner.

In the AGRARIUS offer, there is multiple types of fertilizers from the garden series:

**SOLER Red** (for tomatoes, cucumbers, peppers, pumpkins, zucchinis, eggplants),

**SOLER Green** (for cabbage, cauliflower, broccoli, and other leafy vegetables),

**SOLER Brown** (for carrots, beetroot, celery, parsley, onions, and garlic),

**SOLER Fruit** (for fruit trees and shrubs, as well as strawberries),

**SOLER Flower** (for ornamental plants).



Available packages:

250 ml | 1 L | 5 L

## COMPOSITION:

Content % w/w.

COMPONENT:	SOLER Red	SOLER Green	SOLER Brown	SOLER Fruit	SOLER Flower
Boron	1,00	1,00	0,40	1,00	1,00
Copper	2,00	1,50	1,50	2,00	2,00
Manganese	4,00	4,00	4,50	4,00	4,00
Molybdenum	0,02	0,02	0,02	0,02	0,02
Zinc	3,00	3,50	3,50	3,00	3,00
Sulfur	12,30	12,30	13,10	12,30	12,30

## DOSAGE:

### DOSE:

1 l/ha/200-300 l of water, 2-3 times per season.

## MECHANISM:

This special line of fertilizers is dedicated to garden crops, including orchard, vegetable, and ornamental plants. Thanks to the unique composition and applied technologies: SILEVEL™ and QM6™, SOLER fertilizers provide plants with comprehensive micronutrient nutrition throughout the entire growing season. All SOLER fertilizers contain carefully selected components. Zinc (Zn) affects growth and development and is involved in the synthesis of chlorophyll and vitamins B, C, and P. Boron (B) improves yield quality and contributes to its increase. Copper (Cu) is responsible for tissue development and structure, as well as respiration processes. It also plays a role in the transformation of iron compounds and the synthesis of vitamin C.

SOLER fertilizers also contain manganese (Mn), which participates in photosynthesis and protein synthesis. Additionally, it regulates plant hormone levels, activates many enzymes, and stimulates nutrient uptake by plants. Molybdenum (Mo) plays an important role in nitrogen metabolism and is a component of many enzymes. It also affects the metabolism of phosphorus compounds in plants. The final component, sulfur (S), is a building block of disulfide bridges in nucleic acid chains. It is involved in protein synthesis and is an important component of fats and amino acids.

SOLER fertilizers are safe for use in garden crops, as they do not contain any harmful residues. Thanks to their high absorption rate by plants, they are also beneficial for the natural environment. The components in SOLER formulations have disinfecting properties for sprayers and exhibit fungicidal functions for plants. This helps limit the growth of pathogenic pathogens. The gel consistency of the products allows for long-term storage while maintaining full effectiveness and quality. The fertilizer is easy to mix and pour, ensuring convenience during use.

## BENEFITS OF USE:



Effectively supplements micronutrient deficiencies in crops, stimulating plants for proper growth and yield



The content of sulfur and systemic copper properly nourishes plants and affects the phytosanitary condition of the crop



Safety of use, absence of harmful residues, and fast and effective absorption by plants

## DID YOU KNOW...

### WHAT ARE THE MOST COMMON MISTAKES MADE BY FARMERS?

Even the most experienced agricultural producers can sometimes make mistakes that reduce yields and farm efficiency. Improper soil management, incorrect use of crop support products, or lack of proper preventive measures are just some of them. AGRARIUS offers innovative products and advisory support that help avoid these mistakes and take crop quality to the next level.

## Here are the most common mistakes:

#### INSUFFICIENT CARE FOR SOIL STRUCTURE

Soil structure is crucial for plant health and fertilization efficiency. Neglecting it leads to reduced yields and limited root development. To improve soil condition, we recommend the highly active product GleboMax.

#### INCORRECT PREPARATION OF WORKING SOLUTION

Incorrect proportions of ingredients and improper water acidification can lead to uneven plant coverage and ineffective spraying. For such actions, we recommend the water conditioner full kondycja.

#### LACK OF PROPER MICROBIOLOGICAL FLORA IN THE SOIL

A deficiency of microorganisms in the soil affects the slow decomposition of organic matter. The microorganisms in bi complex max support plant growth by improving their health and resistance.

#### FAILURE TO DECOMPOSE HARVEST RESIDUES

Regular decomposition of harvest residues improves soil structure and supports natural biological processes. Harvest residues provide a significant amount of nutrients, reducing the need for fertilizers. Full terminator and bi słoma can be used for their decomposition.

#### DELAYED PLANT REGENERATION AFTER STRESS

Delayed actions can lead to permanent damage and reduced yields. Timely regeneration, such as with the Naturalny Plon product, is crucial for maintaining plant health.



Our products support sustainable fertilization, optimizing plant growth from roots to above-ground parts, thus improving soil condition.

# Specialized orchard products

Professional and safe fertilizers for fruit plants are AGRARIUS's response to the needs of modern fruit cultivation. The range of products for orchard growers includes preparations that extend flowering and prevent premature fruit drop from trees. All products for orchards are safe for pollinators and do not require any waiting period.



Find out more on our website:  
[www.agrarius.eu/spsen/](http://www.agrarius.eu/spsen/)





AGRARIUS™

**STOP DROP  
FRUIT**

NAWÓZ OGRANICZAJĄCY  
PRZEDWczesNE OPADANIE OWOCÓW  
poprawia ich jakość oraz trwałość przechowywania

1L

N O D R O P I O N



# STOP DROP FRUIT

## NODROPION – WHERE GRAVITY DOES NOT EXIST!

*STOP DROP FLOWER acts like an invisible force that keeps flowers on plants, defying gravity. As a result, the flowers bloom longer and do not fall prematurely, allowing the plants to reach their full potential and produce abundant yields.*

### COMPOSITION:

Cobalt, zinc, molybdenum, and concentrated humic acids derived from lignin processing.

### DOSAGE:

1 l/500-1000 l of water/ha: foliar spray 3-4 weeks before the planned harvest date.



Available packages:

250 ml | 1 L

### MECHANISM:

The innovative STOP DROP FRUIT product from AGRARIUS is a safe pre-harvest fertilizer containing essential micronutrients for the proper growth and development of fruit. STOP DROP FRUIT prevents premature fruit drop caused by stress due to unfavorable conditions such as plant weakening, high temperatures, drought, hail, wind, rain, or other environmental stresses. STOP DROP FRUIT is an effective orchard fertilizer with proven action.

This fertilizer effectively keeps the fruit on the plant until full ripening, improves its taste, and slows down the aging process of the entire plant. The preparation increases the plant's resistance to unfavorable conditions during fruiting, prevents physiological problems, and protects against premature cell aging. This fertilizer does not contain artificial hormones and does not require a waiting period – it can be safely used in all types of fruit crops without any risk to humans, pollinating insects, or the natural environment.

STOP DROP FRUIT stimulates plants to increase yield and ensures uniform fruit calibration. The preparation triggers the production of bioactive substances in plants, such as auxins, sugars, cytokinins, and gibberellins, while also preparing the plants to withstand strong stress.

After using STOP DROP FRUIT, plants are better supplied with micronutrients necessary for proper fruit development and ripening. This fertilizer minimizes the risk of premature fruit drop, improves crop quality, creates favorable conditions for optimal fruit growth and full color development, and at the same time enhances fruit durability and resistance to storage-related diseases.

### BENEFITS OF USE:



Reduces premature fruit drop and enhances their taste quality



Improves coloring, calibration, and storage properties of fruits



Increases the resilience of fruit trees and shrubs to environmental stresses





# STOP DROP FLOWER

## NODROPION – WHERE FLOWERS DEFEAT GRAVITY!

*STOP DROP FLOWER acts like an invisible force that keeps flowers on plants, defying gravity. As a result, the flowers bloom longer and do not fall prematurely, allowing the plants to reach their full potential and produce abundant yields.*

### COMPOSITION:

Cobalt, zinc, molybdenum, and concentrated humic acids derived from lignin processing.

### DOSAGE:

1 l/500-1000 l of water/ha: foliar application before frosts, before flowering begins, and at the start of flowering.



Available packages:

250 ml | 1 L

### MECHANISM:

STOP DROP FLOWER is a fully safe micronutrient fertilizer that ensures abundant and slow flowering, extends the pollinator activity period, and equips the plant with the necessary tools to withstand stress. Thanks to the innovative QM6™ technology, plants are stimulated to absorb more nutrients, grow faster, and produce better yields. The use of this product not only extends the flowering period of fruit trees and shrubs but also reduces the premature dropping of flower buds.

Slow flowering brings numerous benefits. When flowers bloom simultaneously, it is particularly difficult for the plant to sustain and nourish all the blooms. Additionally, pollinating insects struggle to visit all flowers for effective pollination. With the application of this innovative preparation, the issue of simultaneous blooming is resolved, as the extended flowering period gives pollinators more time to pollinate. The formulation contains three essential micronutrients for plant growth: cobalt, molybdenum, and zinc.

Cobalt is a key element in plant growth. Its action primarily involves inhibiting the biosynthesis of ethylene, which directly impacts the delay of cell aging, more efficient fruit setting, and retention. Cobalt also participates in metabolic processes, increases chlorophyll content in leaves, and aids in nitrogen compound transformations. The addition of cobalt enhances the plant's drought resistance and contributes to improved yields.

Molybdenum is essential for nitrogen metabolism and plays a role in numerous biochemical processes. Its primary function is to extend the lifespan of the produced pollen. Molybdenum also participates in phosphorus metabolism – its deficiency leads to excessive accumulation of inorganic phosphorus in plants. Like cobalt, it enhances plant resilience to extreme temperatures, drought, and diseases. It also influences chlorophyll formation. Zinc is vital for plant growth. It is involved in enzymatic processes, accelerates metabolism, and has a direct impact on the absorption of nitrogen and phosphorus.

### BENEFITS OF USE:



Ensures slow blooming, which promotes effective pollination of flowers



Reduces premature falling of flowers and fruit set



Is safe to use and does not require a waiting period

# Specialised products for forestry cultivation

Products intended for use in forest nurseries and decorative conifer plantations. The forestry crop series ensure excellent health condition, resistance to harsh environmental conditions and stress, rapid growth, and proper density. AGRARIUS fertilizers guarantee a lasting and vibrant green color and are safe for the environment.



Find out more on our website:  
[www.agrarius.eu/plien/](http://www.agrarius.eu/plien/)





## Forest Max

### CONIFER FERTILIZER

A specialized foliar nitrogen fertilizer for use in forest nurseries and conifers plantations, featuring a selectively chosen combination of nitrogen and microelements, as well as long-lasting action. Nitrogen in a stabilized form is available to plants for up to three months and plays a key role as a reservoir of this element for conifers. Especially in drought conditions, typical for this type of crop, the availability of nitrogen supported by microelements is of great importance.

### COMPOSITION:

Nitrogen with stabilizer 15%, Manganese 0,1%, Sodium 2,2%, Copper 0,01%, Boron 0,01%, Zinc 0,01%, Molybdenum 0,01%, Cobalt 0,001%, Humic substances derived from processed lignin 30%.

### DOSAGE:

CROP	DOSE	APPLICATION
Forest nurseries	2-3 l/200-400 l of water/ha	2-4 times per season
Conifer plantations	2-3 l/200-400 l of water/ha	2-4 times per season depending on the age and height of the plants

### BENEFITS OF USE:



Ensures rapid growth, proper density, and intense color of plants



Supports physiological processes in coniferous plants, making them resistant to unfavorable environmental conditions



Contains nitrogen stabilized with an innovative method, which works for up to 100 days



Available packages:

1 L | 5 L

## Bicor Forte NEW!

### FERTILIZER FOR USE IN FOREST NURSERIES

Highly concentrated multi-component fertilizer containing macro and microelements as well as humic acids. It is designed for use in forest nurseries, both for coniferous and deciduous plants. Bicor Forte ensures intensive growth of tree seedlings, improves rooting, and increases the effectiveness of young forest plants' establishment. Additionally, it strengthens and enhances their resistance to unfavorable environmental conditions, stresses, diseases, and pests.

### COMPOSITION:

Total Nitrogen 8,5%, Phosphorus 4%, Potassium 4%, Boron 0,10%, Cobalt 0,001%, Copper 0,01%, Manganese 0,1%, Molybdenum 0,01%, Zinc 0,01%.

### DOSAGE:

CROP	DOSE	APPLICATION
Forest nurseries (coniferous and deciduous plants)	1-4 l/200-400 l water/ha	Foliar and soil application; 4-8 times per season

### BENEFITS OF USE:



Ensures intense growth and high health of seedlings and young plants



Contains humic acids (fulvic), which have an anti-stress effect and facilitate the uptake of nutrients into the plant



Ensures proper nutrition of plants and rapid regeneration, even during limited water availability



Available packages:

5 L | 20 L



## nanogro aqua FOREST

### CONIFER GROWTH STIMULATOR

A specialized growth stimulator for conifer plants, dedicated to plantations and forest nurseries. The product has a positive effect on the establishment, development, and regeneration of the root system in young plants. It supports the growth and densification of conifers, as well as strengthens their resistance to diseases and pests.

### COMPOSITION:

Sulfates of elements (N, P, K, S, Mg, Ca, Na, Fe, Cu, Zn, Mn, B, Si) in nanomolar concentration, next-generation humic acids derived from lignin processing.

### DOSAGE:

**Coniferous trees and shrubs:** 250 ml/200-600 l of water/ha, 1-2 applications per season. **Protection against frost/heat:** apply 2-3 days before expected frost/heat; regeneration can be repeated after 7-10 days. **Regeneration after damage caused by plant protection products:** apply immediately after noticing symptoms.



Available packages:

250 ml | 5 L

## SOLER Forest

### MICROELEMENT FERTILIZER FOR CONIFERS

An innovative microelement fertilizer in suspension form, designed for feeding coniferous plants in nurseries and ornamental plants. The fertilizer contains essential microelements as well as large amounts of sulfur and systemic copper, which are necessary for maintaining resistance to diseases, pests, and stressful conditions.

### COMPOSITION:

Boron 1,00%, Copper 1,50%, Manganese 4,00%, Molybdenum 0,02%, Zinc 3,50%, Sulfur 12,30%.

### DOSAGE:

1 l/300-600 l of water/ha, 2-4 applications per season.



Available packages:

250 ml | 1 L

## bi protect FOREST

### BACTERIAL PREPARATION FOR CONIFEROUS PLANTS

A microbiological product containing *Bacillus subtilis* bacteria, which effectively supports the decomposition of organic matter and contributes to soil structure in forest plantations. Additionally, it positively influences the natural limitation of diseases, the absorption of nutrients from the soil by plants, and promotes mycorrhizal development.

### COMPOSITION:

*Bacillus subtilis* bacteria in a concentration of at least  $1 \times 10^9$  CFU per 1 gram of the product.

### DOSAGE:

**Ornamental trees and shrubs:** 1 kg/350-1000 l of water/ha, 3-4 times per season. **Coniferous crops:** 1-2 kg/350-1000 l of water/ha, 1-2 times per season in early spring or autumn.



Available packages:

1 kg | 5 kg

## bi fosfor FOREST

### PHOSPHORUS BACTERIA FOR CONIFERS

The soil bacterial product is based on a carefully selected strain of phosphorus bacteria — *Bacillus megaterium*. It supports the nutrition of plants with phosphorus and improves the phytosanitary condition of crops and the decomposition of organic matter in the soil on conifer plantations and in ornamental plant nurseries.

### COMPOSITION:

*Bacillus megaterium* bacteria in a concentration of at least  $1 \times 10^9$  CFU per 1 gram of the product.

### DOSAGE:

**Ornamental trees and shrubs:** 1 kg/400-600 l of water/ha, 1-2 times per season. **Coniferous crops:** 1-2 kg/350-1000 l of water/ha, 1-2 times per season in early spring or autumn.



Available packages:

1 kg | 5 kg

## Agriculture soaring into the future!

An aircraft spraying your fields – sounds like something from another galaxy, right? This is exactly what the future of global agriculture looks like. Farmers around the world are increasingly adopting innovative agronomic methods – one of them being specialized drones for crop spraying!

The solution offered by Smart Farms is a response to the growing needs of modern agriculture. With spraying drones, we are bringing agriculture to a new orbit, where maximizing profits goes hand in hand with caring for nature.

Drones allow for controlled fertilizer usage and precise spraying, even on very steep and rugged terrains, eliminating the need for heavy machinery and minimizing crop damage. It's like a controlled flight toward higher yields and sustainable agriculture.



Find out more on our website:

[www.smart-farms.pl](http://www.smart-farms.pl)

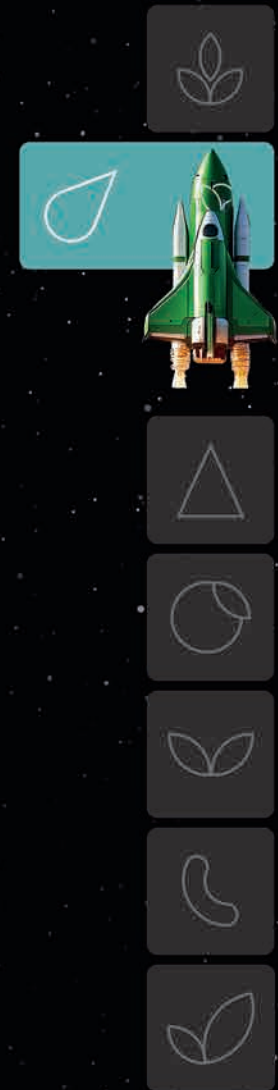


# Water Conditioner

An effective and cost-efficient solution to the problem of the negative impact of using poor-quality water in sprays. Using a conditioner translates into the effectiveness of the active ingredients in the working solution.



Find out more on our website:  
[www.agrarius.eu/kwen/](http://www.agrarius.eu/kwen/)





## full kondycja

### WATER CONDITIONER

A multi-functional conditioner for the working solution, used to improve the effectiveness of spraying. It ensures excellent wetting, enhances leaf coverage, regulates and buffers pH, softens water, improves the miscibility of the working solution, and has an anti-stress effect on the plant during and after spraying. Additionally, it increases the absorption of active ingredients by the plant, ensuring their full action. It is plant- and environmentally-friendly, containing no oils or silicone. It accelerates absorption and dries quickly on the leaf, preventing burning.

### COMPOSITION:

Substances that improve the absorption of active ingredients, fulvic acids, pH regulators, chelating agents, anti-foaming agents, substances that enhance wetting.

### DOSAGE:

DOSE	APPLICATION
1-2 l/1000 l of water	Depending on the pH of the water used for spraying, apply 1 to 2 liters of the product per 1000 l of water. After the product is fully dispersed in the water, active ingredients (plant protection products, fertilizers, stimulants, etc.) can be added in the order recommended by the product manufacturers. Use only in clean sprayers.



Available packages:

1 L | 5 L

### MECHANISM:

An innovative water conditioner, this product is essential when using sprays to improve wetting, increase the efficiency of active ingredient absorption, enhance miscibility, dispersion, and emulsifying properties, and strengthen the adherence of the working solution to the leaf. The use of the Full Kondycja product provides an effective and economical solution to the problem of poor-quality water.

Due to the presence of fulvic acids, the product is highly effective. It improves adhesion and the absorption of active ingredients to maximize the effectiveness of treatments. By combining synergistic surfactants, it positively affects the surface tension, while limiting undesirable foaming of the working solution.

The main ingredient of the water conditioner is fulvic acids, which have broad applications in agriculture. They have chelating properties, meaning they can form complexes with minerals such as iron, copper, zinc, and other micronutrients, making them more available to plants. The water conditioner acts as a natural immunostimulant for plants, helping them combat pathogens and environmental stresses.

### DOSAGE:



Regulates the pH of the working solution and provides buffering properties



Increases the effectiveness of applied substances and minimizes the rapid drying of the working solution



Acts as an anti-stress agent and allows for a reduction in the dosage of active substances

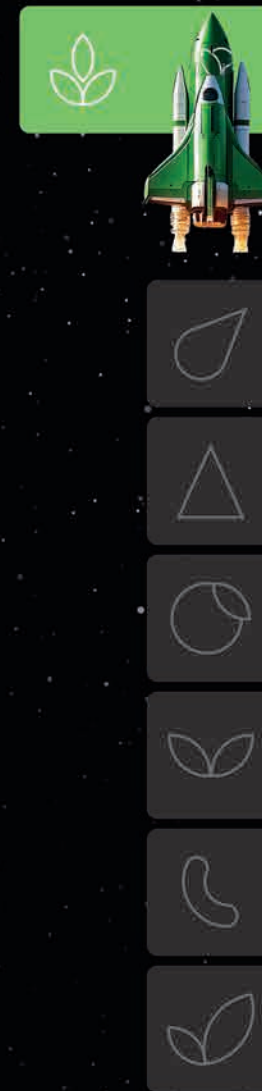


# ECO cultivation products

Certified AGRARIUS products are the answer to the growing demand for „healthy food.”  
The products have been approved by IUNG-PIB in Puławy for use in organic farming.



Find out more on our website:  
[www.agrarius.eu/peen/](http://www.agrarius.eu/peen/)





Guided by our idea „In harmony with nature,“ we enrich our offer with certified products intended for organic farming. We focus on solutions that not only embody modernity and effectiveness but are also safe for crops, the environment, and people. AGRARIUS certified products were created without the use of harmful substances, responding to the growing daily demand for high-quality natural food.

The products have been approved for use in organic farming by the Institute of Soil Science and Plant Cultivation – National Research Institute in Puławy.



**bi complex max**

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**bi azot**

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**bi fosfor**

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**bi protect**

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**bi sloma**

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**bi safe**

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**bi system24**

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**bi seed**

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**bi calc+**

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**SOLER C**

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**SOLER K**

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**SOLER R**

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**SOLER B**

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**SOLER Fruit**

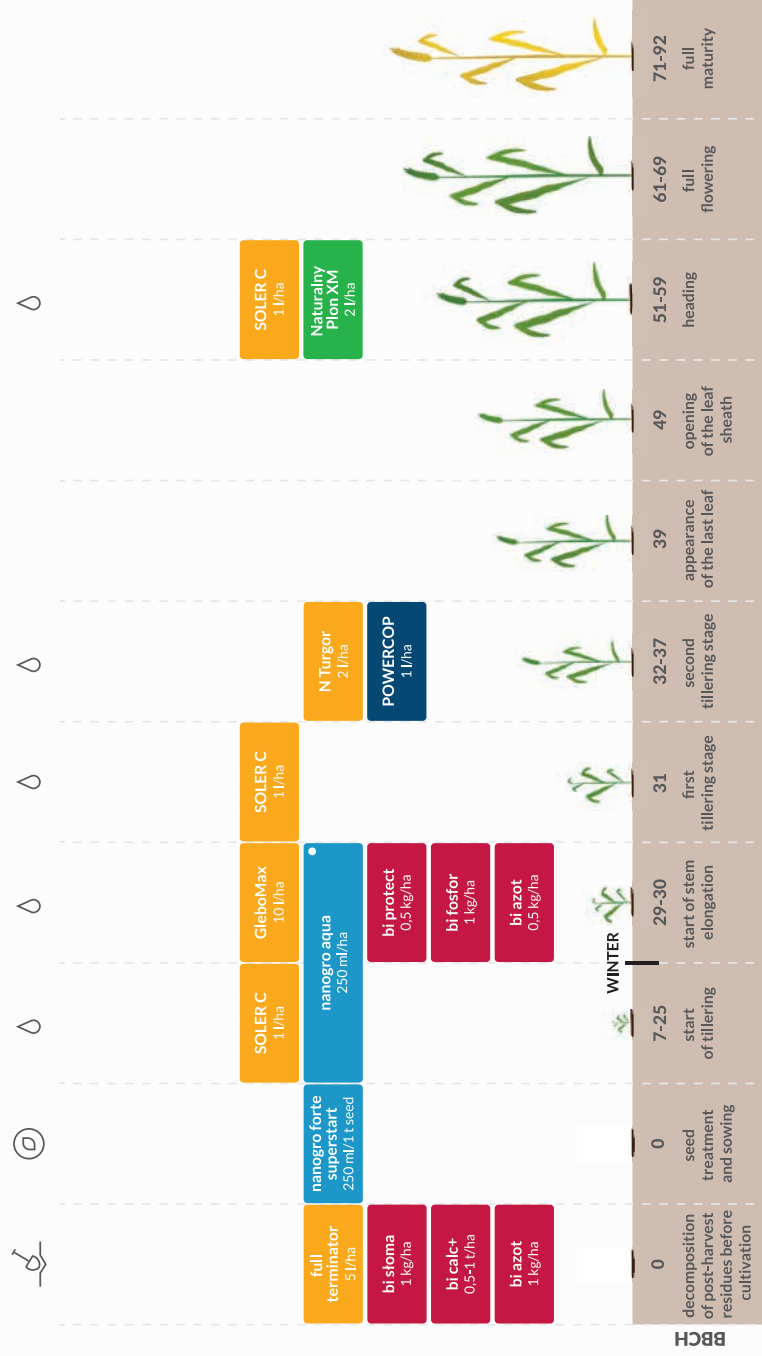
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# Proposed technology for using AGRARIUS products in agricultural and horticultural crops

Turn the catalog – rise above the schemes!



## Wheat cultivation

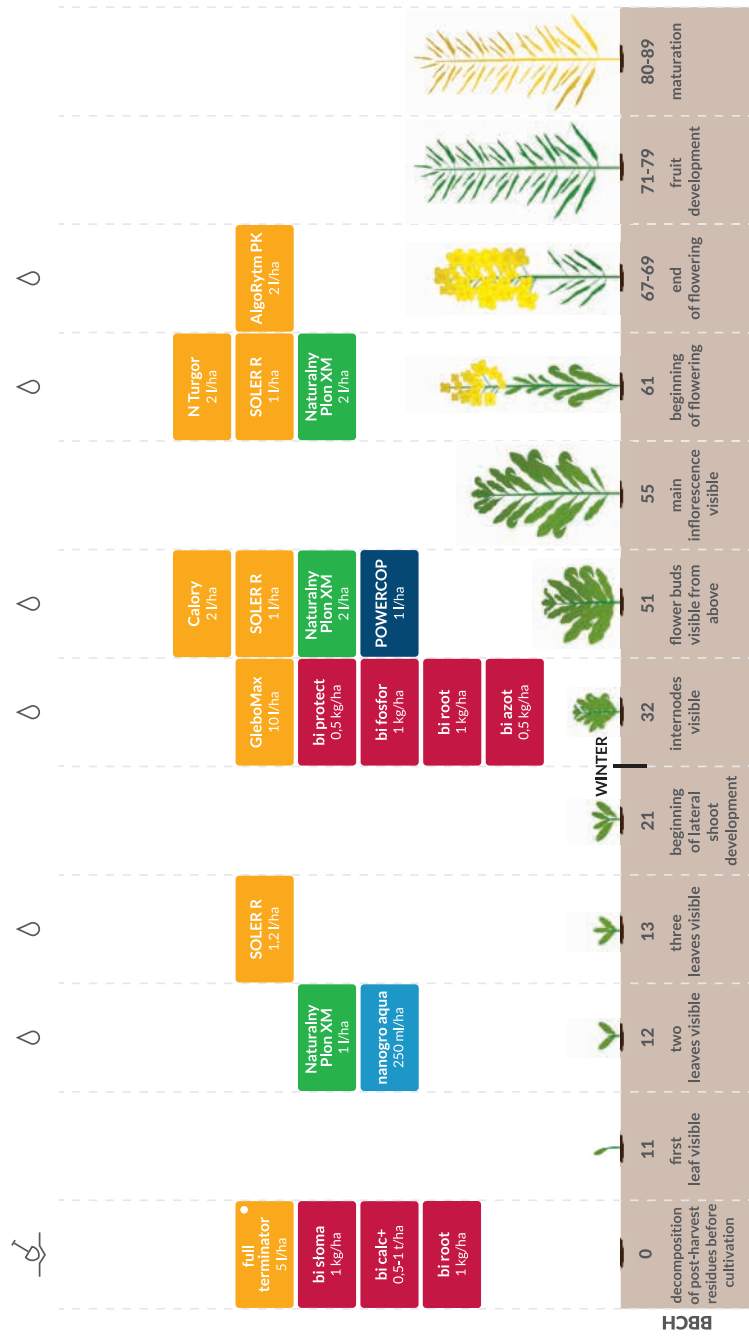


**Key:**

- use if the seeds were not treated with nanogro forte superstart
- ⊙ seed treatment
- ∇ foliar application
- 🛠 soil preparation



## Rape cultivation



Key:

- decomposition of post-harvest residues
- △ foliar application
- 🌱 soil preparation

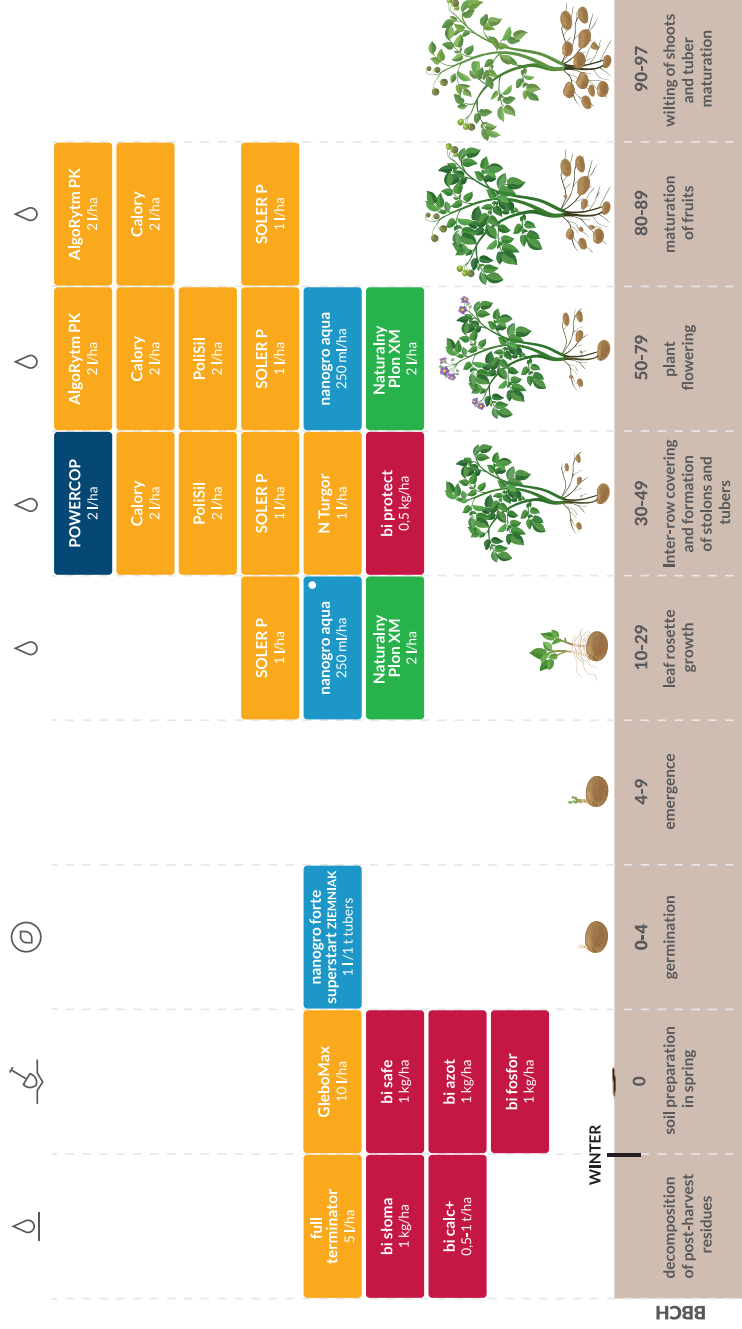
## Sugar beet cultivation



Key:

- or Lignohumat Super 1 kg/ha
- 🌱 soil preparation
- △ foliar application

# Potato cultivation

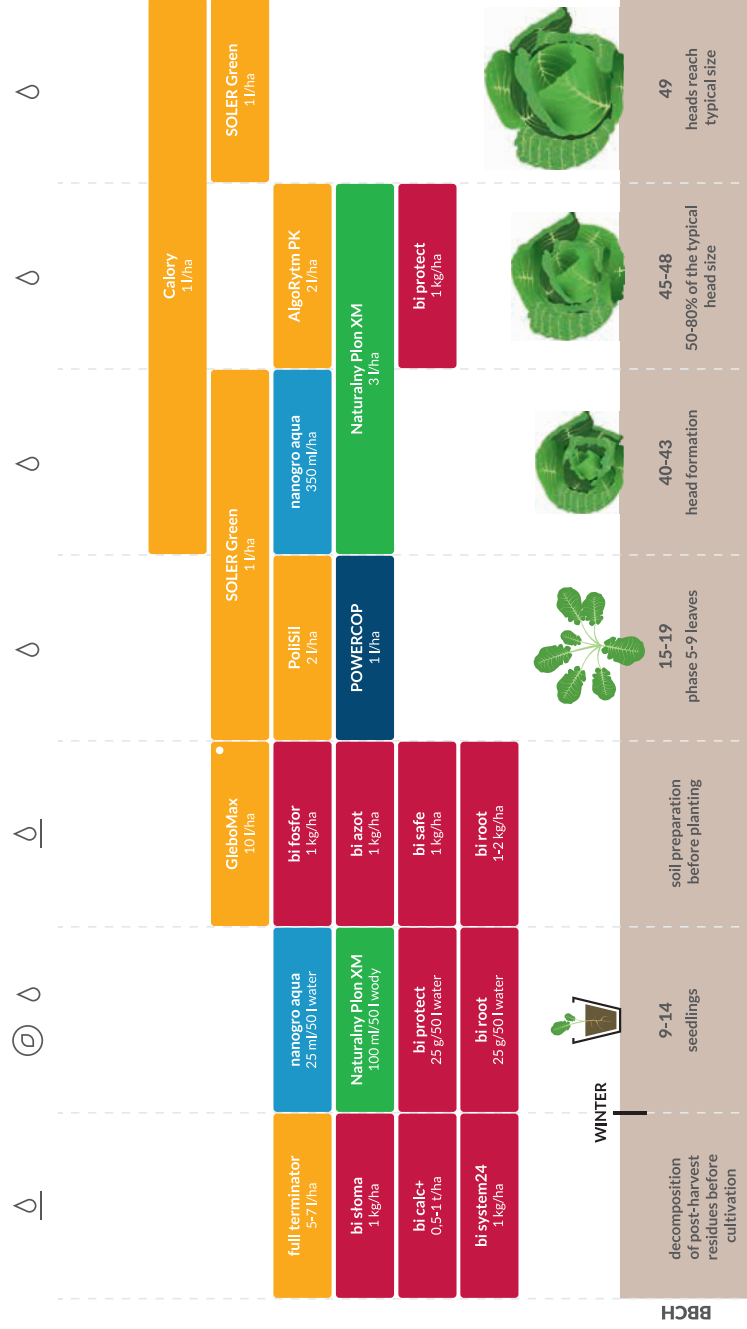


Key:

- if the tubers were not treated with nanagro forte superstart potato
- ⊙ tubers treatment

- ⊖ foliar application
- ⊖ soil preparation
- ⊖ soil application

# Cruciferous vegetable cultivation



Key:

- or Lignohumat Super 1 kg/ha
- ⊙ seed treatment
- ⊖ soil application

- ⊖ foliar application





# Cultivation of vegetable under plastic cover

<b>full terminator</b> 5 l/ha	<b>nanoagro forte superstart</b> 2,5 ml/1 kg seeds	<b>GleboMax</b> 1 l/250 m <sup>2</sup>	<b>nanagro aqua</b> 2,5 ml/20 l water	<b>Polisil</b> 150 ml/500 m <sup>2</sup>	<b>SOLER Red</b> 50 ml/500 m <sup>2</sup>	<b>Calory</b> 50 ml/500 m <sup>2</sup>	<b>SOLER Red</b> 50 ml/500 m <sup>2</sup>	<b>AlgoRytm PK</b> 100 ml/500 m <sup>2</sup>	<b>Polisil</b> 150 ml/500 m <sup>2</sup>	<b>AlgoRytm PK</b> 100 ml/500 m <sup>2</sup>
<b>bi terra</b> 1 kg/ha	<b>Naturalny Płon XM</b> 50 ml/60-100 m <sup>2</sup>	<b>bi fosfor</b> 25 g/250 m <sup>2</sup>	<b>Naturalny Płon XM</b> 50 ml/60-100 m <sup>2</sup>	<b>nanagro aqua</b> 20 ml/500 m <sup>2</sup>	<b>POWERCOP</b> 250 ml/500 m <sup>2</sup>	<b>Naturalny Płon XM</b> 100 ml/500 m <sup>2</sup>	<b>nanagro aqua</b> 20 ml/500 m <sup>2</sup>	<b>Calory</b> 100 ml/500 m <sup>2</sup>	<b>nanagro aqua</b> 20 ml/500 m <sup>2</sup>	<b>Calory</b> 100 ml/500 m <sup>2</sup>
<b>bi stoma</b> 1 kg/ha	<b>bi protect</b> 50 g/60-100 m <sup>2</sup>	<b>bi safe</b> 50 g/250 m <sup>2</sup>	<b>bi protect</b> 50 g/60-100 m <sup>2</sup>	<b>bi protect</b> 100 g/500 m <sup>2</sup>	<b>bi protect</b> 100 g/500 m <sup>2</sup>	<b>Naturalny Płon XM</b> 100 ml/500 m <sup>2</sup>	<b>Naturalny Płon XM</b> 100 ml/500 m <sup>2</sup>	<b>Naturalny Płon XM</b> 100 ml/500 m <sup>2</sup>	<b>Naturalny Płon XM</b> 100 ml/500 m <sup>2</sup>	<b>Naturalny Płon XM</b> 100 ml/500 m <sup>2</sup>
<b>bi calc+</b> 0,5-1 t/ha	<b>bi azot</b> 25 g/250 m <sup>2</sup>	<b>bi azot</b> 25 g/250 m <sup>2</sup>	<b>bi azot</b> 25 g/250 m <sup>2</sup>	<b>bi azot</b> 100 g/500 m <sup>2</sup>	<b>bi azot</b> 100 g/500 m <sup>2</sup>	<b>bi azot</b> 100 g/500 m <sup>2</sup>	<b>bi azot</b> 100 g/500 m <sup>2</sup>	<b>bi azot</b> 50 g/500 m <sup>2</sup>	<b>bi azot</b> 50 g/500 m <sup>2</sup>	<b>bi azot</b> 50 g/500 m <sup>2</sup>
<b>WINTER</b>										
<b>0-14</b> seedlings	<b>15-19</b> young plants	<b>20-59</b> young plants in the ground	<b>60-69</b> flowering	<b>70-73</b> beginning of fruiting	<b>74-76</b> fruit development	<b>77-80</b> maturation and harvesting				
decomposition of post-harvest residues before cultivation										

Key:

- after germination
- or Lignohumat Super 100g/250 m<sup>2</sup>
- ⊙ seed treatment
- ⊙ foliar application
- ⊙ foliar application and fertilization
- ⊙ soil application

PREVENTION: alternately between spraying and irrigation every 3-4 weeks

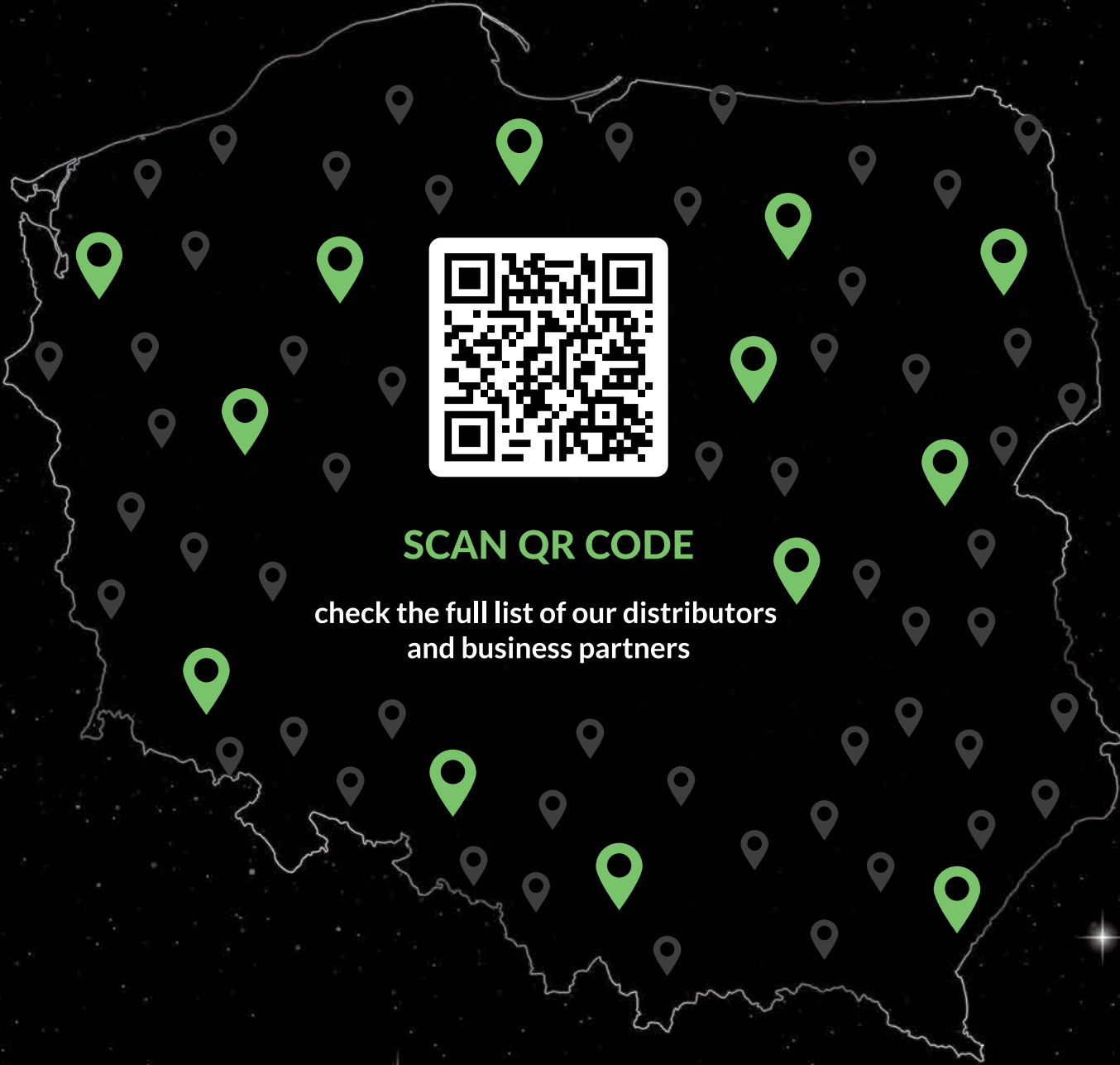
# Fruit tree cultivation

<b>full terminator</b> 5 l/ha	<b>nanoagro forte superstart</b> 10 ml/20-30 l water	<b>GleboMax</b> 10 l/ha	<b>nanagro aqua</b> 350-375 ml/ha	<b>STOP DROP FLOWER</b> 1 l/ha	<b>Naturalny Płon XM</b> 3 l/ha	<b>AlgoRytm PK</b> 2 l/ha	<b>Polisil</b> 2 l/ha	<b>AlgoRytm PK</b> 2 l/ha	<b>Polisil</b> 2 l/ha	<b>AlgoRytm PK</b> 2 l/ha
<b>bi terra</b> 1 kg/ha	<b>nanagro aqua</b> 350-375 ml/ha	<b>bi fosfor</b> 1 kg/ha	<b>nanagro aqua</b> 350-375 ml/ha	<b>STOP DROP FLOWER</b> 1 l/ha	<b>Naturalny Płon XM</b> 3 l/ha	<b>Polisil</b> 2 l/ha	<b>Polisil</b> 2 l/ha	<b>AlgoRytm PK</b> 2 l/ha	<b>AlgoRytm PK</b> 2 l/ha	<b>AlgoRytm PK</b> 2 l/ha
<b>bi stoma</b> 1 kg/ha	<b>bi protect</b> 1 kg/ha	<b>bi azot</b> 1 kg/ha	<b>nanagro aqua</b> 350-375 ml/ha	<b>STOP DROP FLOWER</b> 1 l/ha	<b>Naturalny Płon XM</b> 3 l/ha	<b>STOP DROP FLOWER</b> 1 l/ha	<b>STOP DROP FLOWER</b> 1 l/ha	<b>Calory</b> 2 l/ha	<b>Calory</b> 2 l/ha	<b>Calory</b> 2 l/ha
<b>bi calc+</b> 0,5-1 t/ha	<b>bi protect</b> 1 kg/ha	<b>bi azot</b> 1 kg/ha	<b>nanagro aqua</b> 350-375 ml/ha	<b>STOP DROP FLOWER</b> 1 l/ha	<b>Naturalny Płon XM</b> 3 l/ha	<b>STOP DROP FLOWER</b> 1 l/ha	<b>STOP DROP FLOWER</b> 1 l/ha	<b>Calory</b> 2 l/ha	<b>Calory</b> 2 l/ha	<b>Calory</b> 2 l/ha
<b>WINTER</b>										
<b>0-14</b> early spring: soil preparation	<b>15-19</b> bud break	<b>55-56</b> green bud	<b>57-59</b> pink bud	<b>60-63</b> beginning of flowering	<b>67-69</b> end of flowering	<b>71-79</b> fruit development	<b>81-89</b> ripening and harvest			

Key:

- soaking of shoots and rootstocks
- or Lignohumat Super 1 kg/ha
- ⊙ foliar application
- ⊙ seed treatment
- ⊙ soil application

BBCH



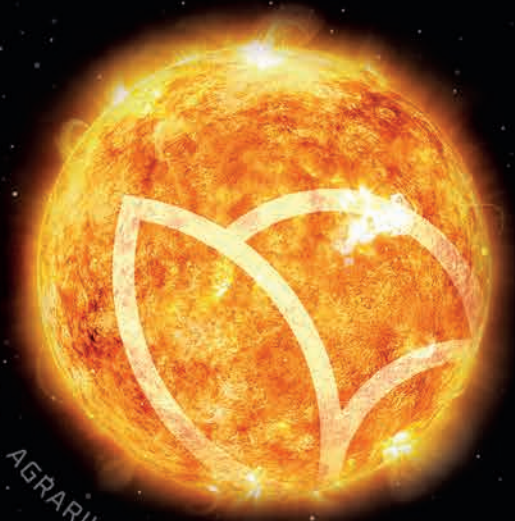
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