

Szivegyünk
a termőföld!

PHYLAZONIT[®]

PHYLAZONIT[®]

'Soil life is our life!'



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Our vision is to enable sustainable agricultural production by restoring the soil life and fertility. Because we truly believe soil should be treated as if we had borrowed it from our grandchildren.

Agrova Ltd. was founded in 2003 by Mr. Péter Vajda, owner and CEO of the Hungarian company. As an agricultural engineer he recognized the most urgent need of today's agricultural production, which is to **improve, restore and revitalize the soil** as a limited and not necessarily renewable growing medium in a natural way.

Agrova Ltd. has developed **Phylazonit™ liquid bacteria fertilizers**, which are made up of naturally occurring bacterium strains, therefore, they do not have any negative effects on the environment and the soil. By using our bacterium preparations, a plant production practice may be established, which preserves and increases the quality of the environment and the natural resources. By the help of our products, plant pests are not treated but prevented, without putting unnecessary burden on nature.

Phylazonit™ liquid bacteria fertilizers are aiming

- to improve,
- restore
- and revitalize the soil in a natural way.

They are made up of **naturally occurring bacterium strains**, therefore they do not have any negative effects on environment and soil, and they **can also be safely used in organic farming**.

Owing to their composition, our products allow that nutrients can be taken up by the plants with the greatest possible efficiency, while also **increasing humus content** of soil, and **restoring its structure** and **water retention capacity**.

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Phylazonit Technology

Phylazonit Technology builds on three main elements



**Repairing the structure
of soil**



**Increasing the efficiency
of nutrient uptake**



**Improving the resistance
of the plant**

Phylazonit Technology



1st step - **Phylazonit Stubble Decomposer** - improving the state of soil as growing medium

2nd step - **Phylazonit Soil Inoculant, Phylazonit Soil Regenerator** - treating the root zone

3rd step - **Energia foliar fertilizer family** - reducing stress effect and ensuring balanced nutrition

4th step – **Soil saving cultivation techniques**

1. STEP - LAND IMPROVEMENT

The first step of the Phylazonit Technology will improve the state of soil as growing medium

- ✓ tillage works become significantly more efficient,
- ✓ better water management,
- ✓ more active soil life,
- ✓ higher level of mobilized nutrients.

The fungus diseases could be discouraged, **so this is the first step to make it possible to produce healthy food materials.**



Phylazonit Stubble decomposer

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1st step - Phylazonit stubble decomposer



Accelerates and controls the decomposition of dead plant parts into nutrients, thus increasing humus content and helping to stimulate the microbial life in the soil, which has a positive effect on soil structure and cultivability. The phosphorus mobilizing strains in the product accelerating the uptake of phosphorus

2. STEP - ROOT ZONE TREATMENT

The second step of Phylazonit technology, after taking care of the arable land, is treating the root zone, with which,

- ✓ the available nutrient range of the soil,
- ✓ plant-health status,
- ✓ and stress resistant **could be improved simultaneously.**

Soil inoculation means to improve the quality of the root zone's microbial life, while suitable bacterial strains are introduced.



Phylazonit Soil Inoculant

Phylazonit Soil Regenerator

2nd step - Phylazonit soil inoculant and soil regenerator



The bacteria found in **Phylazonit Soil Inoculant** proliferate on the surface of roots and exert their beneficial effects there: 1) stimulate root formation, thus providing larger surface for nutrient and water uptake; 2) relieve the plant from energy-intensive processes by which the plants absorb nutrients that are not dissolved in water; 3) by binding nitrogen content of soil air and mobilizing phosphorus bound in the soil, it provides the plant with excess nutrients.

Bacterial strains in **Phylazonit Soil Regenerator** has been selected to stimulate root formation and - through their hormone production - accelerate development of the seedling. Due to their ability to produce siderophores, they reduce proliferation of harmful soil-dwelling fungi in the surrounding area of the root surface by binding and utilizing iron forms essential for their vital activity.

3. STEP - NUTRITION

The third step of Phylazonit technology, after taking care of the arable land and treating the root zone is

- ✓ reduce stress effect
- ✓ and ensure balanced nutrition.

We must not forget successful plant production requires not only macro and secondary nutrients but a few grams of micro nutrients per hectare too.



Energia Humin

Energia Plus

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Energia Humin and Energia Plus



Energia Humin

A preparation for the initial development of plants, for the treatment of early stress effects and possible nutrient deficiencies. It contains macro- and microelements, humic and fulvic acid, which enhances metabolic processes of the cells and chelates certain nutrients, thus strengthening the plant's immune system.

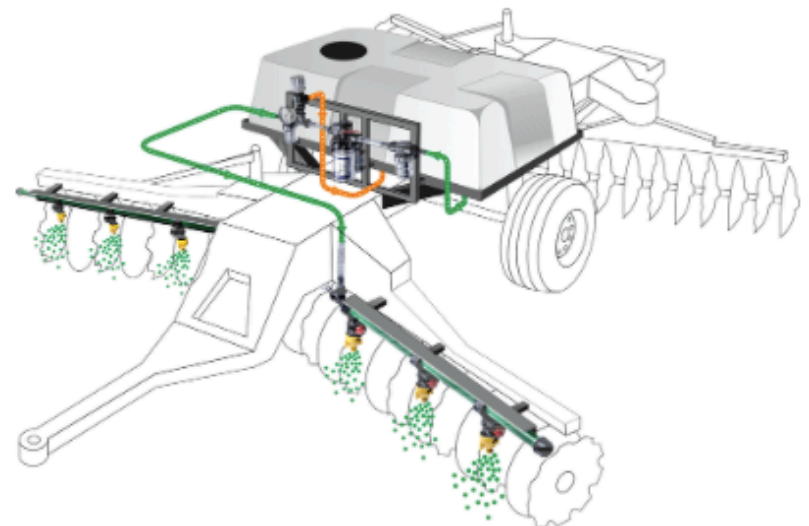
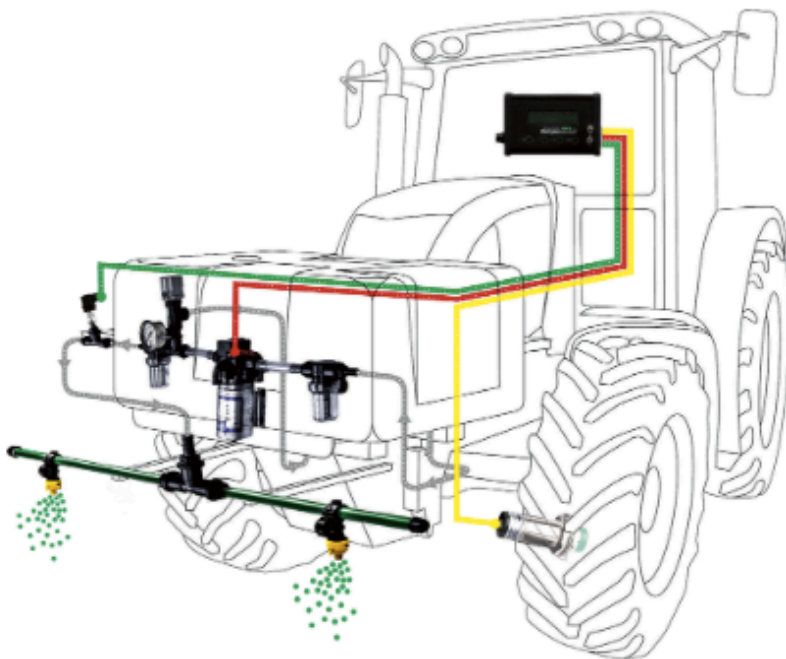
Energia Plus

A preparation highly containing N, Mg, S, and 6 essential microelements for treating the intensively growing plant. It contains active ingredient N in the form of an amide, which can be well absorbed through the leaves. Due to its small molecular size, it also easily passes through the plant cuticle; it has no scorching effect and also promotes absorption of other compounds.

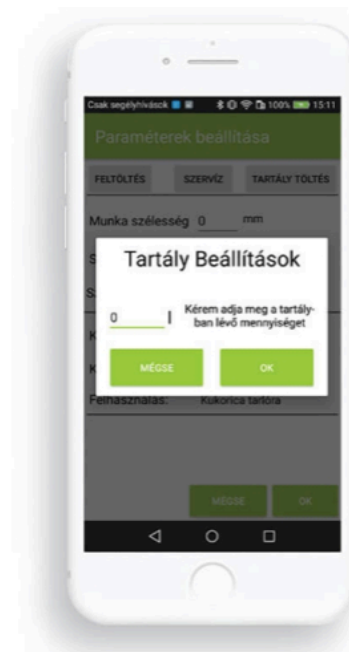
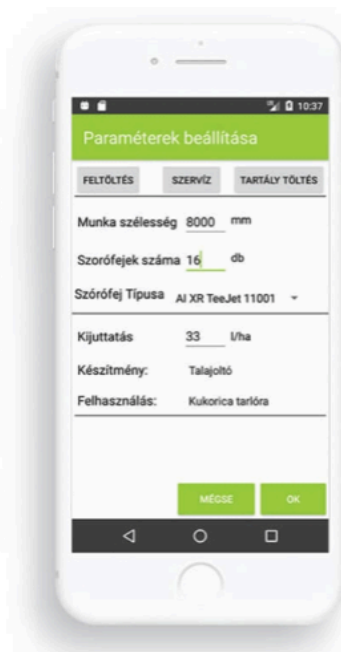
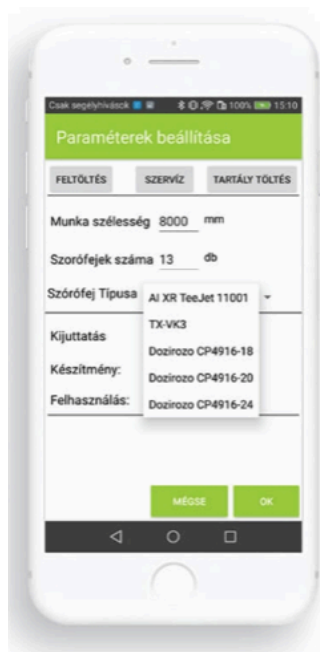
In order to increase our products' efficiency, we have developed the

Phyller™ seed drill unit,

which can be mounted on any kind of cultivators, allowing to spray out our products optimally together with other work session in one round, without causing additional tread damage and fuel need.



Our unique **Temposensor Basic™** control unit continuously adjusts the amount applied within a field to speed and position, thus saving fertilizer, cost and enabling precision agriculture.



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R&D

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We have our own **research, laboratory and manufacturing background**, thus we carry out continuous R&D with a focus on farmers' problems. We continuously develop our bacteria in a way to improve decomposing ability of leftover plant parts on stubble and through that to increase organic content of the soil, improve the structure of the soil and thus the water retention capacity of it.

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Results

<p>Autumn wheat</p>  <p>Sárkeresztúr</p>	<p>Control</p> <p>yield: ton/hectare</p> <p>8</p>	<p>PHYLAZONIT</p> <p>Phylazonit T0 90 l/ha, EP 30 l/ha</p> <p>yield: ton/hectare</p> <p>8,6</p> <p>Additional revenue (HUf/hectare)</p> <p>11 100</p>	<p>Sunflower</p>  <p>Látókép</p>	<p>Control</p> <p>yield: ton/hectare</p> <p>4,25</p>	<p>PHYLAZONIT</p> <p>Phylazonit TR 15 l/ha</p> <p>yield: ton/hectare</p> <p>4,65</p> <p>Additional revenue (HUf/hectare)</p> <p>25 650</p>
 <p>Veszprém</p>	<p>Control</p> <p>yield: ton/hectare</p> <p>7,065</p>	<p>PHYLAZONIT</p> <p>Phylazonit Tarlóbontó 100/ha</p> <p>yield: ton/hectare</p> <p>7,51</p> <p>Additional revenue (HUf/hectare)</p> <p>13 125</p>	 <p>Kömlő</p>	<p>Control</p> <p>yield: ton/hectare</p> <p>3,5</p>	<p>PHYLAZONIT</p> <p>Phylazonit TR 15l/ha</p> <p>yield: ton/hectare</p> <p>4,1</p> <p>Additional revenue (HUf/hectare)</p> <p>43 649</p>
 <p>Polgárdi</p>	<p>Control</p> <p>yield: ton/hectare</p> <p>7,8</p>	<p>EnergiaHumin</p> <p>Phylazonit TB 0 TD 10-10 l/ha; EH 5 l/ha</p> <p>yield: ton/hectare</p> <p>8,6</p> <p>Additional revenue (HUf/hectare)</p> <p>31 600</p>	 <p>Küngös</p>	<p>Control</p> <p>yield: ton/hectare</p> <p>4,18</p>	<p>PHYLAZONIT</p> <p>Phylazonit T0 12 l/ha</p> <p>yield: ton/hectare</p> <p>4,78</p> <p>Additional revenue (HUf/hectare)</p> <p>45 720</p>

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Results

Soy-bean



Jenő

Control

yields ton/hectare

4,29

PHYLAZONIT[®]

Phylazonit Szója 20 l/ha

yields ton/hectare

4,57

Additional revenue
(HUF/hectare)

17 000

Rape



Berekbőszörmény

Control

yields ton/hectare

4,21

PHYLAZONIT[®]

Phylazonit TR 15l/ha

yields ton/hectare

4,65

Additional revenue
(HUF/hectare)

35 850

Control

yields ton/hectare

3,44

EnergiaPlusz

Energia Plusz 15l/ha

yields ton/hectare

3,64

Additional revenue
(HUF/hectare)

17 500



Békés

Control

yields ton/hectare

3,88

PHYLAZONIT[®]

Phylazonit TR 15l/ha

yields ton/hectare

4,43

Additional revenue
(HUF/hectare)

47 400

Control

yields ton/hectare

3,44

PHYLAZONIT[®]

Phylazonit Szója 15 l/ha

yields ton/hectare

3,74

Additional revenue
(HUF/hectare)

22 650



Mezőfalva

Control

yields ton/hectare

4,77

PHYLAZONIT[®]

Phylazonit TR 10 l/ha,
EH 3 & 5 l/ha, EP 30 l/ha

yields ton/hectare

5,9

Additional revenue
(HUF/hectare)

93250






Látókép

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Results

Maize  Nemesgörzsöny	Control yields ton/hectare 9,41	PHYLAZONIT Phylazonit TO 10l/ha, 6 l/ha EH yields ton/hectare 10,58 Additional revenue (HUF/hectare) 38 610
 Sárosd	Control yields ton/hectare 12,5	PHYLAZONIT Phylazonit TR 20l/ha yields ton/hectare 13,5 Additional revenue (HUF/hectare) 31 200
Corn silage  Kazsok	Control yields ton/hectare 54,9	PHYLAZONIT Phylazonit TO 10l/ha yields ton/hectare 59,1 Additional revenue (HUF/hectare) 26 700



Business success

Our company come a long way over the past decades – from a small family business to a modern enterprise, still owned by the founders. By now, we extended our activities to cover the whole product chain: the production, trade, research and also the development of the products. The quality and innovation represented by our products have been rewarded by **several Hungarian and international prizes**, while our **ethical and reliable business behaviour** and economic stability gained us a Bisnode AAA qualification.



Business cooperation

After becoming a successful market player in Hungary, we are aiming to expand our business abroad. As a part of this goal, we are currently **looking for business partners, who would represent our products on foreign markets**, and is adept in agriculture, while also has a producer network in a specific country. Last but not least, who shares our vision and mission:

"Soil life is our life"

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