

TECHNOLOGY AHEAD OF ITS TIME: RAPESEED

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www.mediplusr.com

The combination of the biostimulant **AMALGEROL ESSENCE** and **nitrogen**-fixing bacteria by Medi+R delivers revolutionary results in agriculture and brings you benefits in 4 areas related to reducing production costs:

1. Higher and better-quality yield

The new technology stimulates root growth and nutrient uptake, providing higher and better-quality yields.

2. Compensates up to 1/3 of the active nitrogen substance per decare from the full nitrogen fertilization rate

Save on nitrogen fertilizers and reduce the negative effects caused in the environment.

3. Reduces fuel consumption for soil cultivation

Improve soil structure and reduce fuel costs by up to 300–400 ml/da.

4. CAP subsidies

Medi+R's innovative technology meets the requirements of modern agriculture and is part of the support for farmers through subsidies under the support scheme in line with the Common Agricultural Policy and the European Green Deal. Both products are approved and are part of the Bulgarian Food Safety Agency's electronic register under the Eco-scheme for preserving and restoring soil potential – promoting green manuring and organic fertilization under the CAP.



Carbon farming is one of the new trends in the sector with two main benefits: reducing harmful emissions and creating a new source of income for farmers. They can obtain certificates that will secure them future revenues. Global trends include reducing carbon emissions and achieving carbon neutrality.

MEDI+R TECHNOLOGY

But what is the impact on farmers? They face the dilemma of how to achieve their goals without risking their crop. The Medi+R team provides the exact solution through the following technology:

**ДВУКРАТНО ПРИЛОЖЕНИЕ НА АМАЛГЕРОЛ ЕСЕНС И
ЕДНОКРАТНО ПРИЛОЖЕНИЕ НА АЗОТ ФИКСИРАЩИ
БАКТЕРИИ НА МЕДИ+Р ПРИ РАПИЦА**

When applying the technology, the following benefits are observed:

- increased microbial activity in the soil and mycorrhiza;
- higher and better-quality yield;
- better tolerance to various types of stress;
- promotion of plant growth and improved utilization of nutrients.

APPLICATION IN RAPESEED

Applying the combination of double application of **AMALGEROL ESSENCE** and a single application of **nitrogen**-fixing bacteria by Medi+R is not only an investment with guaranteed return and higher yield quality, but also an optimization of costs. This combination is reliable and effective in both wheat and rapeseed.



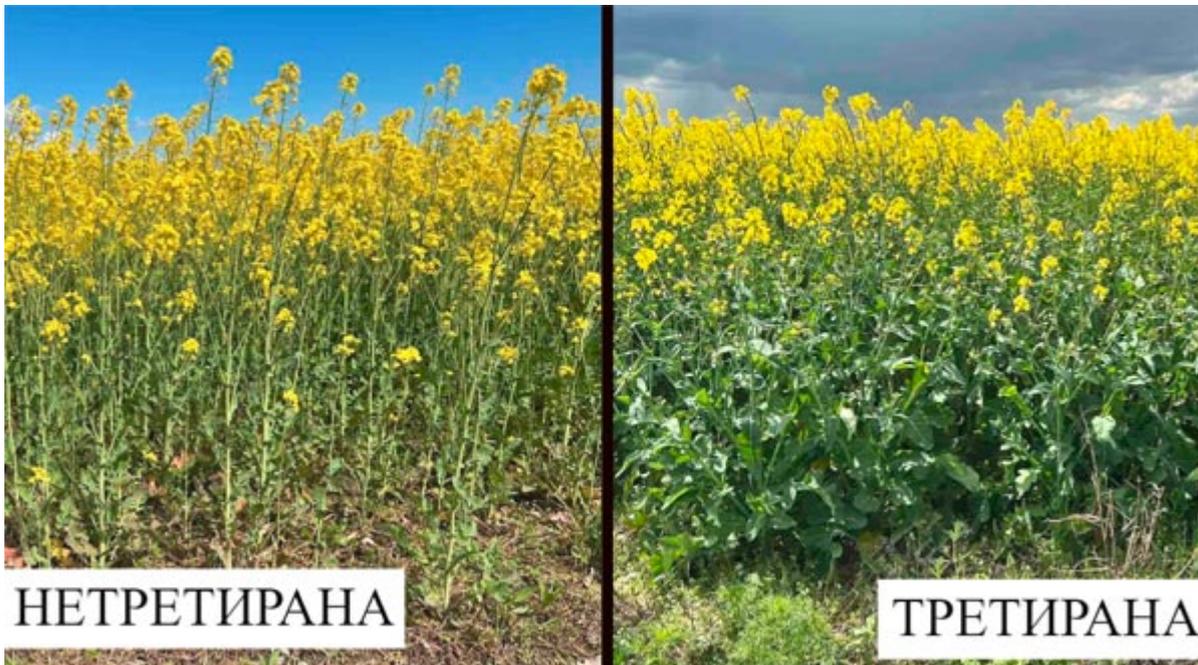
The Medi+R team reminds farmers how important the application of **AMALGEROL ESSENCE** and **nitrogen-fixing bacteria** by Medi+R is at the **first treatment** of rapeseed in spring:

- Normal pre-sowing fertilization rate; spring top-dressing aims at reaching 10–12 kg active nitrogen substance per decare;
- **1st treatment at stem elongation in spring: Fungicide + AMALGEROL ESSENCE 200 ml/da + nitrogen-fixing bacteria by Medi+R 5 g/da;**
- **2nd treatment at 30% flowering: Fungicide + AMALGEROL ESSENCE 200 ml/da.**

Medi+R's technology not only reduces the amount of nitrogen fertilizers in rapeseed, but also ensures higher and better-quality yields. As a result of the treatment, plants develop a denser root system, become healthier and stronger, have more branches, which ensures higher yields, and the increased oil content by 2–3% leads to higher product quality.

In the next photo, two rapeseed fields from April 2023 are compared, clearly demonstrating the result of the applied Medi+R technology. In the treated plants we observe uniform plant development, plants standing densely next to each other with thicker stems and visibly healthy appearance. The well-developed root system

has facilitated optimal uptake of nutrients required for proper plant development. Furthermore, there is a significantly larger leaf mass with an oily green colour and more lateral branches.



THE TECHNOLOGY SAVES UP TO 1/3 KG NITROGEN ACTIVE SUBSTANCE PER DECARE

SHARED PRACTICAL EXPERIENCE: WHEAT

Farmer Plamen Vladimirov from Inovo, Vidin region, shares his experience with the products **AMALGEROL ESSENCE** and **nitrogen**-fixing bacteria by Medi+R in wheat. He compares two variants:

- Variant 1: Control – standard technology with nitrogen fertilization at 20 kg active nitrogen per decare;
- Variant 2:
 - Nitrogen fertilization at 12 kg active nitrogen per decare;
 - **1st treatment at the end of tillering and beginning of stem elongation: Herbicide + AMALGEROL ESSENCE 200 ml/da + nitrogen**-fixing bacteria by Medi+R **5 g/da**;
 - **2nd treatment at the end of flowering: Fungicide + AMALGEROL ESSENCE 200 ml/da.**

The trials were carried out on an area of 260 decares, with both fields treated at the same time with herbicide and fungicide, and the difference being the reduced nitrogen fertilization rate and the application of Medi+R technology. The control showed an average yield of 660 kg/da, while in variant 2 the average yield was 700 kg/da.



You can find the full information at the following link:

<https://youtu.be/RU39IurFXGw>

Soil structure

Medi+R's technology also brings benefits in terms of structuring the **soil**. Practical experience from the vineyards of *DiVes Winery* in the Pomorie region proves the benefits of long-term use – after 6 consecutive years of treatments, the penetrometer penetrates about 80 cm into the soil. In the neighbouring block, which has not been treated with **AMALGEROL ESSENCE** and **nitrogen**-fixing bacteria, the depth reached by the soil density tester is about 30 cm.



A demonstration of the soil benefits from the application can be found in the following video:

<https://www.youtube.com/watch?v=60ZVjL9YoLw>

Studies conducted in Bulgaria, Hungary and Germany indicate that after three years of using the products on the same field, fuel consumption for each soil cultivation operation carried out on the field decreases by up to 300–400 ml/da, which in itself leads to a significant reduction in costs for farmers.

The use of Medi+R technology is becoming a key practice for obtaining environmentally friendly plant production under conditions of climate change and in the context of the “**Green Deal**”. The technology, based on two treatments with **AMALGEROL ESSENCE** and a single treatment with **nitrogen**-fixing bacteria by Medi+R, is not only effective but is becoming a secure investment in your yield and reduces production costs.

Previous article: “**TECHNOLOGY AHEAD OF ITS TIME: WHEAT**”

<https://www.plant-protection.com/article/1931>

Upcoming article: “**TECHNOLOGY AHEAD OF ITS TIME: SUNFLOWER**”

 Description: plant protection products Amalgerol Essence Amalgerol foliar fertilizers.

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