

TECHNOLOGY AHEAD OF ITS TIME: CORN

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The combination of the biostimulant **AMALGEROL ESSENCE** and **nitrogen**-fixing bacteria from Medi+R yields revolutionary results in agriculture and brings you benefits in 4 areas, concerning **reduction of production costs**:

1) Higher and better quality yield

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

2) Compensates up to 1/3 active nitrogen substance per decare from the full nitrogen fertilizer norm

Save on nitrogen fertilizers and reduce negative environmental effects.

3) Reduces fuel consumption during soil cultivation

Improve soil structure and reduce fuel costs by up to 300-400 ml/decare.

4) CAP Subsidies

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



Carbon farming represents 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 acquire certificates that will provide them with future income. Global trends include reducing carbon emissions and achieving carbon neutrality.

MEDI+R TECHNOLOGY

For every farmer, it is important what the actual impact on their activity is, because it is necessary to achieve goals without risk to the crop. The Medi+R team offers the exact solution through the following technology:

TWO APPLICATIONS OF AMALGEROL ESSENCE AND

ONE APPLICATION OF NITROGEN-FIXING

BACTERIA FROM MEDI+R ON CORN

When applying the technology, the following benefits are present:

- increase in microbial activity in the soil and mycorrhiza;
- higher and better quality yield;
- coping with various types of stress;
- promoting plant growth and improving nutrient utilization.

Nitrogen-fixing bacteria from Medi+R are approved for use in organic farming and **DO NOT** contain genetically modified and pathogenic organisms. The product is applied by spraying onto the leaf surface of crops. The Medi+R team recommends its use in the early stages of vegetative development, stimulating the fixation of atmospheric nitrogen in the following crops: cereals, sunflower, corn, fruit crops, vineyards, alfalfa, garden crops, nut-bearing fruit species, citrus. Nitrogen-fixing bacteria from Medi+R allow for:

- fixation of atmospheric nitrogen;
- reduction of nitrogen chemical fertilizer input into the soil;
- improvement in crop quality and quantity.

APPLICATION OF MEDI+R TECHNOLOGY ON CORN



The application of the combination of two applications of **AMALGEROL ESSENCE** and one application of **nitrogen**-fixing bacteria from Medi+R represents not only an investment with guaranteed income and higher yield quality but also cost optimization. This combination is reliable and proven effective for wheat, rapeseed, sunflower, and corn.

The Medi+R team recommends the following application scheme for farmers for **AMALGEROL ESSENCE** and **nitrogen**-fixing bacteria from Medi+R on corn:

- Nitrogen fertilization with 10 kg active nitrogen substance per decare;
- **1st treatment at 3rd–4th leaf stage:** **AMALGEROL ESSENCE** 200 ml/decare;
- **2nd treatment at 7th–8th leaf stage:** **AMALGEROL ESSENCE** 200 ml/decare + **nitrogen**-fixing bacteria from Medi+R 5 g/decare;

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

MAIZE INSTITUTE – KNEZHA

In 2023, the Maize Institute – Knezha conducted demo trials with Medi+R's products in corn crops under rainfed conditions for another year and demonstrated the effectiveness of applying **AMALGEROL ESSENCE** and

nitrogen-fixing bacteria from Medi+R. The application schemes for variants 1 and 2 are presented in the following table, along with the obtained results:

Резултати от Институт по царевицата, Кнежа 2023 - царевица

Вариант	Схема на приложение	Добив кг/дка	Добив кг/дка в %
1	Контрол – Стандартна технология		
	Азотно торене с 20 кг активно вещество азот на дка	990,8	100%
2	Азотно торене с 10 кг активно вещество азот на дка		
	1 ^{во} третиране във фаза 3 ^{ти} - 4 ^{ти} лист: Amalgerol Essence 200 мл/дка 2 ^{ро} третиране във фаза 7 ^{ми} - 8 ^{ми} лист: Amalgerol Essence 200 мл/дка + Азотфиксиращи бактерии на Меди+Р 5 г/дка	1011,6	+2,1 %



In variant 2, presenting Medi+R's technology with two treatments with the biostimulant **AMALGEROL ESSENCE**, the nitrogen fertilization dose was halved