

**AMALGEROL®**  
**ESSENCE**

## The Multicomponent Biostimulant

**For Optimal Plant Growth  
and Sustainability**

- Boosts Plant Immune System
- Protects Against Abiotic Stress
- Strengthens Root Development
- Enhances Photosynthesis
- Promotes High Quality Yield



Quality from Austria



Swiss Recipe



Decades of Experience

**HECHENBICHLER** 



## AMALGEROL Biostimulants

# Natural Support for Plants & Soil

## What are Biostimulants?

According to the EU Fertilizing Products Regulation (EU 2019/1009), biostimulants are substances of mostly natural origin or microorganisms that stimulate physiological processes in plants and soil. The application of biostimulants has the effect to enhance nutrient efficiency, nutrient uptake, tolerance to abiotic stress, and plant quality — regardless of the actual nutrient content of the product.



## How Does AMALGEROL Work?

AMALGEROL biostimulants directly support your plants' immune system. The functional compounds can be sensed by the plants. These received signals strengthen plants' natural defense mechanisms and improve their resilience.

Additionally, they promote root growth and indirectly enhance plant health by activating beneficial soil microorganisms. As a result, overall plant "fitness" is improved. At the same time, soil life is stimulated, leading to healthier soils and better nourished plants.

- **Direct Immune Boost:** Activate the plant's natural defense mechanisms and accelerate immune responses.
- **Healthier Plants:** Enhance resilience and readiness to respond to stress factors.
- **More Energy:** Boost photosynthesis, increasing energy available for growth and defense.
- **Optimal Root Growth:** Promote larger root biomass and support colonization by beneficial microorganisms.

- **More Phytohormones:** Increase phytohormone levels via beneficial microorganisms, promoting stress resilience.
- **Reduced Disease Susceptibility:** Strengthen cell walls and reduce pathogen pressure in the soil.
- **Improved Crop Yields:** Enhance the composition of key compounds (e.g. antioxidants, sugars, proteins) and ensure even water/nutrient distribution throughout all plant parts (leaves, flowers, fruit).
- **Soil Improvement:** Increase humus formation and organic matter content, enhance water retention capacity.

AMALGEROL biostimulants provide both preventive support for healthy plants and soils and immediate relief — whether in cases of frost, heat, UV radiation, phytotoxicity, or mechanical damage.

## Your Benefits

AMALGEROL biostimulants activate natural processes that have evolved over millions of years to ensure plant survival. They strengthen your plants' defenses and contribute to healthy, stable growth.

By activating signalling molecules that systemically induce response mechanisms throughout the plant and rhizosphere, AMALGEROL biostimulants help revitalize your farmland.

The result is sustainable agriculture with stable yields, even under challenging conditions.

## Secure Yields, Protect the Soil

Reduced need for fertilizers and crop protection, yet stable yields.

## High Stress Tolerance

Your plants remain vital for longer periods under drought, heat, frost, UV radiation, or waterlogging.

## Systemic Action

Even small amounts stimulate the plant's defense mechanisms in every cell.

## The only Treatment to Counteract Abiotic Stress

Biostimulants are unmatched when crops face extreme environmental conditions.

## Soil and Plants in Balance

An active soil microbiome nourished by plants ensures increased soil organic matter and improved water retention capacity, leading to vigorous plant growth.



For optimal plant growth and sustainability

# AMALGEROL ESSENCE – The Multicomponent Biostimulant

AMALGEROL ESSENCE is a unique biostimulant with decades of proven success. Thanks to a perfectly balanced blend of natural ingredients, it achieves far more than a single active ingredient class. AMALGEROL ESSENCE supports plants' natural defense and metabolic processes – from germination to harvest, even under extreme weather conditions. By boosting soil life and the establishment of beneficial microorganisms in the rhizosphere, it helps enhance nutrient efficiency, aids in stress management, and improves yield security, making it a sustainable solution for resilient and future-oriented agriculture.

## FUNCTIONAL COMPOUNDS



### Plant stimulating peptides

Induce defence reactions (priming), increase alertness in case of stress



### Bioactive carbohydrates

Mobilize sugar (osmotic protective shield), reduce phytotoxic reactions, promote microbial soil life



### Humic acid-like substances

Improve root development, make micronutrients available (chelation), activate the soil



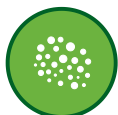
### Herbal extracts

Enhance plant communication for defense and growth processes



### Microbial metabolites / postbiotics

Signaling molecules that strengthen interactions between bacteria and plants, accelerate immune responses and modulate metabolism



### Organic trace elements

Optimize signal transmission and stress response



### Plant signalling molecules

Induce defence reactions in the plant, more defence proteins and receptors for putative pathogens; support priming reaction and improved response to stress

### Nutrient content

3 % Nitrogen (N)

3 % Potassium (K<sub>2</sub>O), water soluble

39 % Organic matter (corresponds to 75 % in DM)

Depending on national registration requirements, the exact composition may differ.

pH value: 5 - 6

### Packaging units

Canister 15 l; 45 x 15 l / pallet

Pallet tank 1.000 l

Specific gravity: 1,23 kg/l

### Application

2 to 3 l/ha per application. Use sufficient water to ensure thorough wetting of soil and leaves.

For crop-specific application times, see the product label and our website.

AMALGEROL ESSENCE meets the requirements of regulation (EU) 2018/848 in the current version and is allowed for organic farming.



# With Nature for Nature

## Discover More Resources Online!

Explore our website for in-depth materials on specific crops and topics to help you get the most out of our AMALGEROL biostimulants. From our *Voices from the Fields* flyers - real stories from farmers in action - to our extensive trial database full of practical insights, there's plenty to discover.

**Visit us online and take your crop performance to the next level!**



[www.amalgerol.com](http://www.amalgerol.com)



**Trial Database**



**Crop Flyers**



**Topic Flyers**



**Voices from the Fields**

