



## Bio|me|stimulants from ekolive

### What are organic biostimulants?

Organic biostimulants are natural concentrates of active ingredients that support plant growth, health, and yield – without being classic fertilisers or pesticides. They act like a “plant tonic” or “soil activator”, helping plants cope better with their environment, absorb nutrients more efficiently, and become more resilient.

### How do our Bio|me|stimulants work? The secret lies in the metabolites.

At **ekolive**, we harness the intelligence of nature. Through our patented and EU-certified bioleaching process (*InnoBioTech*<sup>®</sup>), we obtain a high-quality concentrate of bioactive **metabolites from beneficial bacteria and microalgae**. These natural substances are the key:

- They contain **natural plant hormones (phytohormones)** that specifically stimulate growth, flowering, and fruit development.
- They provide **organic acids and enzymes** that serve as food for the soil microbiome, activating it.
- They **mobilise nutrients** from the soil and improve their uptake.
- They **stimulate the plant's own defences** against stresses such as drought, heat, cold, and diseases.

Our biostimulants thus work holistically and systemically – they optimise the natural processes in plants and soil.

### Why can't they be compared to conventional agrochemicals?

A simple price or quantity comparison falls short, because:

Conventional Fertilisers/Pesticides	Organic Biostimulants from <i>ekolive</i>
Often chemically synthetic; can impair soil life.	Act <b>indirectly</b> by regulating and activating the plant's own processes and the soil ecosystem.
Effect often dependent on dose.	Contain <b>exclusively natural, microbe-produced active ingredients</b> ; build up soil life.
Effect often dependent on dose.	Effect depends on the <b>precise interplay of the active ingredients</b> – the right concentration is crucial.

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## Bio|me|stimulants from ekolive

### Our products: *ekofertile*<sup>®</sup> plant & *microfertile*<sup>®</sup> plant

Both products are non-microbial plant biostimulants (PFC 6B) produced by a certified bioleaching process. They are approved for organic farming in the EU (FiBL Inputs List), in Austria (InfoX) and in Slovakia (UKSUP). Each product improves plant vitality and stress resilience while complying with EU contaminant limits.

#### *ekofertile*<sup>®</sup> plant – For soil activation and plant health

- **Description:** An organic-mineral plant aid (pH ~4) based on lactic acid bacteria metabolites, obtained through bioleaching of sand and molasses.
- **Main Effect:** Its bioactive substances **stimulate the soil microbiome**, improve nutrient availability, strengthen roots, and enhance the plant's own immunity and stress resistance.
- **Proven:** Practical trials have observed yield increases of up to +60% (strawberries) and reductions in nitrogen requirement by 30% (peas).
- **Application:** Water or spray as a 3-10% solution depending on use and growth stage (e.g., 3-5% for vegetables, 7-10% for shrubs and trees).

#### *microfertile*<sup>®</sup> plant – For yield increase and stress resistance

- **Description:** An organic plant strengthener (pH 7-8) with metabolites from *Thiobacillus* bacteria and *Chlorella* microalgae, enriched with many dissolved essential elements.
- **Main Effect:** Its active ingredients **directly stimulate plant development**, increase photosynthesis and frost tolerance, as well as quality (oil, protein, nutrients content).
- **Proven:** Field trials showed yield increases of up to +291% (cucumbers) and +42% (cabbage).
- **Application (according to label):** Spray or water as a 2-10% solution (e.g., 5% for root stimulation). For frost protection, apply a 2-10% solution at least 24 hours in advance.

#### The main differences between *ekofertile*<sup>®</sup> plant and *microfertile*<sup>®</sup> plant

*ekofertile*<sup>®</sup> plant has a low pH (approx. 4). It is ideal for **heat and drought stress**, stimulating root growth and improving fruit quality.

*microfertile*<sup>®</sup> plant has a neutral pH (approx. 7.5). It is designed for **cold and frost tolerance**, better germination, green biomass and chlorophyll content.

Choose *ekofertile*<sup>®</sup> plant when you need to strengthen plants under hot, dry conditions and boost sugar content. Choose *microfertile*<sup>®</sup> plant when you expect cool nights, frost risks, or want a fast start and lush green growth. Both are non-microbial biostimulants and can be used together depending on the crop stage and stress type.

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**ekofertile® plant** works well on a broad range of crops (vegetables, cereals, berries, vines) and is particularly helpful when you need to improve **heat/drought tolerance**, root development and fruit quality (Brix, fructose).

**microfertile® plant** also suits many crops, but its neutral pH and higher chlorophyll-promoting activity make it especially effective for **leafy greens, forage crops and any situation where you want to boost green biomass and photosynthetic activity**.

If you grow **spinach, lettuce, clover, grass or other green mass crops**, **microfertile® plant** will give you a visible “greener” result – thanks to its positive effect on chlorophyll content.

For **fruit-bearing crops** (tomatoes, peppers, grapes, berries), **ekofertile® plant** is often the better choice when you face hot, dry periods and want to enhance sugar content.

Both products are non-microbial and can be used together or alternately: **ekofertile® plant** for stress protection / fruit quality, and **microfertile® plant** for early vigour, cold tolerance and lush green growth.

### ✔ Why trust ekolive?

- **Approved & Tested:** Both products are listed for organic farming by FiBL (D, EU), InfoX (A) and UKSUP (SK).
- **Scientifically Supported:** The mode of action is substantiated by studies and practical trials.
- **Multiple Awards:** Our technology has been awarded by renowned institutions such as BASF, Bayer, EIT Food, and Wageningen University.
- **Sustainable Production:** EU-certified bioleaching (ETV environmental label).

### 🌱 Our Promise

With the active ingredient concentrates **ekofertile® plant** and **microfertile® plant**, you are relying on the **intelligent language of nature instead of chemistry**. You receive a biostimulant tailored to your cultivation system that, through natural bacterial metabolites, makes plants and soils healthier, more resilient, and more productive in the long term.

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