



# TERRALGAL

Organic microalgae  
based biostimulants



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## The logic behind the name Terralgal

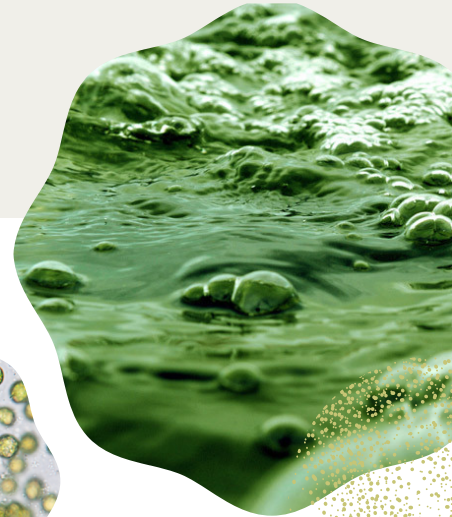
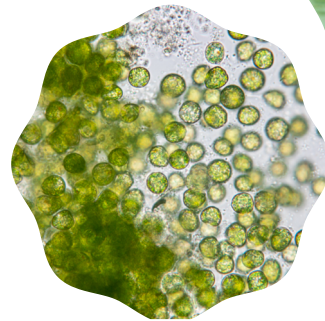
**TERRA** (lat.) terra, terrae n. earth, land

**ALGAL** (adj.) algae; referring to microalgae

– a unicellular microorganism, the oldest life form on the planet  
(3.5 billion years old) which hides information about the evolution of life on Earth.

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*“Life on Earth wouldn’t be possible without microalgae producing approximately ½ of the atmospheric oxygen we breathe while performing photosynthesis.”*



## The imposing power of microalgae

Microalgae are **microscopic single-celled organisms**, that have existed for billions of years with a unique ability to survive and adapt to the most extreme environment.

They are **sustainable and renewable resources** providing the **solutions for the changing global climate**, offering immense potential of applications in agricultural environment.



# TERRALGAL – organic microalgae based biostimulants

Terralgal is **an organic blend of microalgae & nitrogen-fixing bacteria** complemented with **microbial extracts** that **improves enzymatic & biological activity of the soil**.

- ✓ Enhances crop yield
- ✓ Increases plant growth, health & quality
- ✓ Reduces the use of toxic pesticides
- ✓ Ensures higher profits for farmers

Healthy soil is **full of beneficial fungal and bacteria networks** that are **symbiotically interacting with plants' root systems (rhizosphere)**. To activate this crucial life cycle, organic material needs to be added to feed the soil, plants and eventually us, without damaging the environment. Terralgal promotes greater availability of **nitrogen, phosphorus, and potassium**

**(NPK) in the rhizosphere, increased carbon capture in the soil** while improving the growth of **beneficial soil microbes**. When applying Terralgal biostimulants you are **stimulating plants natural defense systems** increasing their **resistance to pests and diseases**.

## Why is TERRALGAL biostimulans your best option?



*Biological plant activator enriched with macro and micronutrients, amino acids, and bioactive compounds*



*Naturally stimulates soil microorganisms (plant-root-soil interface) and stabilizes pH*



*Improves nutrient efficiency & productivity while reducing the use of pesticides*



*Helps the plants remain vigour and healthy, increases quality, crop yield and profit*



*Makes plants more resistant to abiotic stress (extreme temperatures, salinity, drought & heavy metals)*



*Increases optimal root & leaf growth in the vegetative cycle*





## TERRALGAL PRODUCTS

### 1. TERRALGAL BALANCE

A reviving plant root soil interface blend that focuses on the soil's rhizosphere. Stimulates natural processes to improve nutrient uptake, nutrient use efficiency, crop quality, enhance abiotic stress tolerance and yield.



### 2. TERRALGAL NUTRI PLUS (Mn + B + Zn)

The combination of essential microelements important for seed and fruit formation help in regulating other nutrients (B – Boron), aid in nitrogen metabolism (Mn – Manganese) and (Zn – Zinc) the regulation of plant growth. It is the so called “soup of micronutrients” that will help you grow your crops with the full potential of the microalgae in a combination with a special micronutrient matrix.

### 3. TERRALGAL BOOST (Mn + Zn)

Zn – Zinc increases the robustness, optimum growth and maximum yield of a plant. It helps plants to produce chlorophyll, essential for a plant's life. In a combination with Mn – Manganese it provides essential protection for crops that are known to be sensitive to Zn and Mn deficiency (corn, onions, spinach, cucumbers, lettuce, radish...). This interaction of two essential micronutrients results in yield impact, root growth and chlorophyll production.







#### 4. TERRALGAL GROWTH (B)

This blend is specially created to enhance the growth and health of the plant. B – Boron is the second most widespread micronutrient deficiency problem worldwide after Zinc. It is important for flower production and retention, pollen tube elongation and germination, and seed and fruit development. It is necessary for plants to complete their life cycle.

#### 5. TERRALGAL ACTIVE CONCENTRATE

For a more personalised approach, choose TERRALGAL ACTIVE CONCENTRATE. This is our fully customizable blend, tailored to suit your demands ready to ship from our plant to your field in 24 h. Get the proper support for all of the stages in the crop cycle – from nourishing and balancing diverse microbes' composition in the soil and stabilizing its pH, to protecting your crops from extreme weather with all the right nutrients in all the stages of the cycle. This specific matrix formulation and proprietary emulsification process allows addition of different plant extracts (Ascophyllum nodosum, Laminaria digitata) and other microbial colonies (Rhizobium, Pseudomonas and Bacillus).



#### AVAILABLE FORMATS:

1 l, 5 l, 10 l, 20 l, 1000 l

**APPLICATION SOLUTION and RECOMMENDED DOSAGES** available upon request and purchase.

Visit our **web site** for more information and send an inquiry to our customer support department. These products were manufactured according to the **European Commission EC regulation 889/2008.**

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Our organic certified biomass fully abides by European regulations for organic agriculture.

## The science behind the Terralgal biostimulants

At the Particula Group we are devoted to helping farmers enhance nutrient efficiency and activate the full potential of their crops without risking the health of humans, animals, and the environment. Only healthy soil, full of life can produce healthy food. That is why we developed Terralgal biostimulants microalgae and microbial blend products to activate the beneficial soil microbiome and plant development.

### MICROALGAE CULTIVATION PROCESS

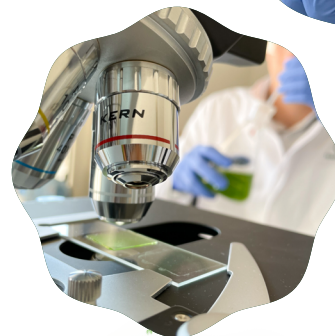
The Particula Group develops microalgae and bacteria biotechnology processes by operating a 3<sup>rd</sup> generation biorefinery. We cultivate microalgae in a controlled organic farm using innovative and clean technology by developing organic EU certified biomass.

### RESEARCH AND DEVELOPMENT DEPARTMENT

Highly skilled in processing a wide range of natural microorganisms with an accent on microalgae and cyanobacteria working in an organic certified biomass production. The Particula Groups' unique service offer is to custom make the specific blends for farmers depending on the crop they want to treat and the results they want to achieve.

### SUSTAINABLE BIOTECHNOLOGY SOLUTIONS

Our key sustainability focus areas are the sustainable biomass cultivation process, state-of-the-art proprietary technology, and cutting-edge circular bio-based products. We are providing sustainable solutions to improve crop yields, quality & productivity in a natural, organic way.



## Field trials and testimonials

Combining our innovative technology and microalgae's impeccable virtues and capabilities we are strongly supporting farmer's growth on their path to more sustainable and green farming.

### **Terralgal field trial: BLUEBERRIES**

**Location:** Sisak, Croatia (Continental area)

**Client:** FRAGARIA d.o.o. / fragaria.hr

*Fr<sup>ag</sup>aria*

"During the 2021 season (April – September) Terralgal ACTIVE CONCENTRATE was tested on our blueberry plantation in Sisak. A 30% higher income was recorded compared to the previous year".

Fragaria d.o.o. Zagreb is the leading company in Croatia for the production and introduction of new technologies, consulting in growing fruits and vegetables, and in the production of the highest quality fruit and vineyard planting material.

### **Terralgal field trial: GRAPEVINE**

**Location:** Selce and Novi Vinodolski, Croatia  
(Primorska Hrvatska)

**Client:** EKO SELO Selce d.o.o.

  
Grand Village  
ESTATE

"During April 2021, in order to revive and help frozen young grapevines shoots and buds after the gale and snowstorm we foliarly applied Terralgal Active Concentrate biostimulants with the addition of Zinc (Zn). The grapevine and the leaves completely recovered from stress caused by freezing. Other impacts of freezing couldn't be seen throughout further phases of the grapevine's growth". The Eko Selo Selce plantation is located on the Adriatic highway between Selce and Novi Vinodolski. From 2014 until today they have raised plantations of lavender, immortelle, olive, figs, and vineyards.

### **Terralgal field trial: TOMATOES**

**Location:** Sv. Filip i Jakov, Croatia  
(Ravni Kotari – the most fertile part of Dalmatia)

**Client:** SEDNA d.o.o. (sedna.hr/sjora-pomidora)



"During the 2021 season (Feb.– Sep.) tomatoes were treated in hydroponic cultivation in greenhouses. After applying Terralgal ACTIVE CONCENTRATE the harvest of the tomato was 15% higher than prior year when the same plantation was not treated, while the use of integrated protection was reduced by 35%. Sedna d.o.o. Sv. Filip i Jakov. The company Sedna was founded in 2005. It was established based on the love of traditional family farming production which has lasted for more than half a century. On the day it was founded, a new celestial body was discovered in the solar system, which astronomers named Sedna, so the company was named in his honor.



**\* For more information** on applications, field trials or any other questions please visit our **web site: [terralgal.com](https://terralgal.com)** or contact us via **telephone: +385 95 6044 244** or **email: [office@particula-group.com](mailto:office@particula-group.com)**. Our team will be more than happy to answer all your questions and provide you with the right information.





TERRALGAL

*The development of sustainable biotechnology innovations  
with microalgae leading the way towards a green future  
will be the key to preserving natural resources for future generations.  
We are taking action to help achieve a better and more sustainable future for  
all by implementing five United Nations Sustainable Development Goals (SDGs),  
a shared blueprint for peace and prosperity for people and the planet.*



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**SUSTAINABLE  
DEVELOPMENT  
GOALS**

