



## TrueSolum® and the Mighty Microbes

Microorganisms live in a world of **chemical signals**. They use small molecular weight compounds, known as **metabolites**, to regulate the environment in which they live and control the function and shape of much of the world's biodiversity. These metabolites function as **signalers to microbial communities in the soil**.

### TrueSolum

TrueSolum is an organic and proprietary liquid soil booster containing useful metabolites that are expressed during the cultivation of *Chlorella* microalgae.

- **Algae-free**, metabolite rich liquid soil booster
- Stimulates **natural microbial activity** in the soil
- **Signals specific microbes** to grow and multiply based on the needs of the crop

### Mode of Action

Research studies were initiated to confirm the specific changes that **TrueSolum** causes in microbial diversity and abundance, both with naturally occurring and through inoculated microbes. The results of gene sequencing and functional analytics show that when applied to the soil, TrueSolum specifically activates:

<i>Bacillus</i> sp.	<i>Trichoderma</i> sp.
<i>Pseudomonas</i> sp.	PGPR Bacteria
<i>Pseudomonas fluorescens</i>	<i>Azospirillum</i>
Mycorrhizae	

When this microbial community is stimulated, these mighty microbes get to work helping to **release, assimilate, solubilize, and make available key nutrients** including **Nitrogen, Iron, Phosphorus, Zinc and Manganese**. Additionally, certain microbes can help break down organic matter, suppress disease, and improve stress tolerance.

### Benefits

**TrueSolum** works with the microbes which are native to the soil to enhance their effectiveness. Because TrueSolum enhances the communication between the soil microbes and the crop, the resulting microbial activity is tailored to each field and crop need. In addition, research has shown that TrueSolum also benefits microbial inoculants by jump starting their impact on the soil and the crop. This targeting of the right microbes for the job at hand provides benefits which could include:

- Enriched nutrient and water uptake
- Enhanced plant and root growth
- Induced microbial growth associated with healthier crops
- Increased environmental stress tolerance
- Improved yield

Become a **TrueSolum** grower partner. Contact us or one of our distributors for details.

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

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