



# SOIL ACTIVATOR™

A CUTTING-EDGE **SOIL AMENDMENT AND ROOT PROBIOTIC** THAT BOOSTS CANNABIS GROWTH AND PRODUCTIVITY JUST LIKE NATURE INTENDED.

Soil Activator's advanced formula combines three strains of beneficial bacteria with a natural synergistic active to improve the bio-availability of your fertilizer program, strengthen the development and structure of plant roots, increase vegetative growth, and boost production. And because we care, we make it natural: it contains no synthetic chemicals and no genetically-modified organisms.

## PHOTOS OF PLANTS (End of vegetative cycle)



Treated with Soil Activator



Control Group

## How to use

Soil Activator is compatible with indoor and outdoor growing, hydroponics, drip irrigation, living and sterile soils and all types of soilless growing media. Soil Activator can be applied once at the beginning of the production cycle by mixing directly with media prior to filling containers, or drenching into the root zone after filling containers or planting. It can also be added to the hydroponic nutrient solution.

See reverse page for detailed application instructions.

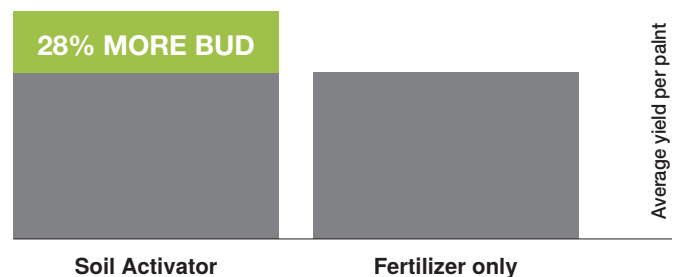
## How it works

The three strains of high-performance beneficial bacteria were isolated by scientists from natural soils and selected for their ability to boost nutrient supply. The microbes are combined with a unique all-natural plant-based synergist that enhances their activity, and helps to hold nutrients where the roots can use them. When Soil Activator is added to soil or soilless growing media the bacteria activate and begin to multiply, surrounding roots in a cloud of bioactivity.

## Modes of Action

- ✓ Mineralizes and fixes nitrogen
- ✓ Solubilizes phosphorus
- ✓ Solubilizes silicate and zinc
- ✓ Chelates iron
- ✓ Produces nutrient mineralizing enzymes
- ✓ Speeds transplant recovery

## Testimonials



"I could tell that the plants were bigger and growing more vigorously. But when I measured the total weight of bud produced, I knew this was something special. I made Soil Activator part of my standard program."

Licensed cannabis grower, 2016





# TECHNICAL USER GUIDE

## Specifications

### Guaranteed Microorganisms

<i>Bacillus subtilis</i>	2.48x10 <sup>8</sup> cfu/g
<i>Bacillus amyloliquefaciens</i>	5.00x10 <sup>6</sup> cfu/g
<i>Pseudomonas monteilii</i>	1.0x10 <sup>6</sup> cfu/g

### Technical characteristics

Density	
pH	6 – 9*
Maximum solubility	300 g/L @ 20°C
Recommended water mixing ratio	Up to 50 g/L water
Storage	Up to 3 years (5 – 25°C)
Handling	No special precautions required

\* NOTE: Soil Activator is manufactured with natural ingredients. Variation in pH between lots will not affect performance.

### Electrical Conductivity

Concentration (g/L water)	Electrical Conductivity (ms/cm)
0.5	0.40
1	0.55
5	1.71
10	3.10
15	4.43
20	5.70
30	8.06

## General Guidelines

- Apply once per production cycle, as part of a balanced fertilization program
- Consult with a production specialist to ensure best results
- Effective in conventional and organic production systems
- Approved for organic production

## Standard Application Methods

**DOSE:** 1.25 grams per Liter of growing media (soil or non-soil)

### OPTION 1:

**TIMING:** 24-48 hours before planting

1. Add Soil Activator to substrate before filling containers
2. Mix well to ensure even distribution of product
3. Fill containers and moisten substrate
4. Allow to rest up to 48 hours before planting

### OPTION 2:

**TIMING:** Transplanting / early vegetative stage

1. Mix 5 grams of Soil Activator per Liter of water
2. Drench substrate with mixture, using 250 ml per Liter of substrate
3. Ensure even distribution of mixture through the container to prevent hotspots

## Hydroponic Systems

Soil Activator is compatible with most hydroponic nutrient programs

**DOSE:** 0.5-1 gram per liter of nutrient solution

### NOTES:

- Refer to Electrical Conductivity chart above
- Monitor electrical conductivity of nutrient solution after incorporating Soil Activator
- Make adjustments as necessary to maintain recommended ranges for hydroponic nutrients

## Storage and Safety

**STORAGE:** Store at room temperature. Avoid freezing and intense heat.

**WARNING:** Do not ingest. Avoid inhalation.

## Questions?

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