



MAMMOTH® P is distributed to North American Retailers exclusively by Global Garden. www.globalgarden.co • 310-362-0550



MAMMOTH® P by Mammoth Ag is a liquid microbial soil additive that acts as a catalyst to maximize plant nutrient uptake to significantly enhance plant health, plant quality, and plant yield.

MAMMOTH® P Active Microbials utilizes a specialized blend of beneficial bacteria to unlock phosphorus and micronutrients that are often bound in the growing medium. By increasing the bioavailability of these essential elements, the formula promotes vigorous plant health and superior development throughout the entire life cycle. The clean-running, near-neutral pH ensures that it will not clog irrigation lines or interfere with delicate hydroponic reservoirs. This updated formulation is highly shelf-stable and refined for professional consistency.



WHY CHOOSE MAMMOTH P?

- **MAXIMUM NUTRIENT BIOAVAILABILITY** – Specifically unlocks phosphorus and micronutrients to **accelerate plant development** and **drive vigorous metabolic efficiency**.
- **UNIVERSAL SYSTEM COMPATIBILITY** – Performs with **maximum efficiency across all** hydroponic, soilless, and soil-based growing media.
- **ULTRA-CONCENTRATED ROI** – Professional-grade **application rate of just 0.6 mL per gallon** ensures maximum utility and a cost-effective feeding schedule.
- **CLEAN-RUNNING pH STABILITY** – Near-neutral formulation **prevents nutrient reservoir fluctuations** and **eliminates irrigation clogs** for maintenance-free operation.
- **SHELF-STABLE INNOVATION** – Enhanced for **longer-lasting potency** and **immediate microbial activity** upon application for consistent results.
- **SCIENTIFICALLY OPTIMIZED FORMULA** – Backed by rigorous agricultural biotechnology and **professional research** to ensure **elite performance** in high-demand environments.
- **ELITE GROWTH SUPPORT** – Promotes significantly stronger root systems and healthier plants, resulting in **bigger yields** and **superior harvest quality**.
- **PROFESSIONAL-GRADE LIQUID CONCENTRATE** – An easy-to-use formulation that **delivers immediate and lasting results** with every application.

ACTIVE INGREDIENTS

Bacteria Culture 1%

INERT INGREDIENTS

Alfalfa Extract 2%

Inactive / Water 97%

TOTAL **100%**

GUARANTEED ANALYSIS

Soil Amending Ingredients CFU/mL

Pseudomonas putida 1×10^4 CFU/mL

Comamonas testosteroni 1×10^4 CFU/mL

Citrobacter freundii 1×10^6 CFU/mL

Enterobacter cloacae 1×10^6 CFU/mL

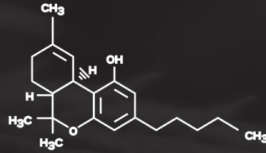
TOTAL **2.02×10^6**

Grow with MAMMOTH[®] P

The leading organically derived microbial inoculant that unlocks phosphorus and micronutrients to maximize growth.

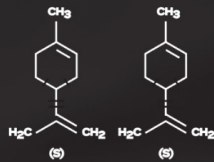
4.0%

Net Increase
THC : C₂₁ H₃₀ O₂



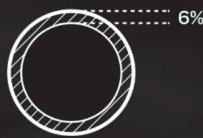
0.8%

Net Increase
Terpene



6.0%

Net Increase
Stem Strength



16%

INCREASED
YIELD*

6%

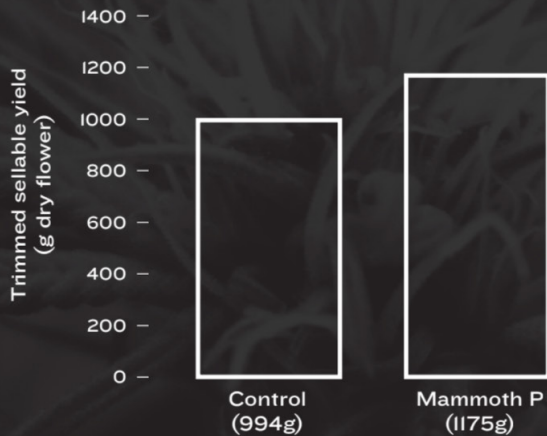
INCREASED
STEM
STRENGTH*

*Based on published, peer-reviewed study

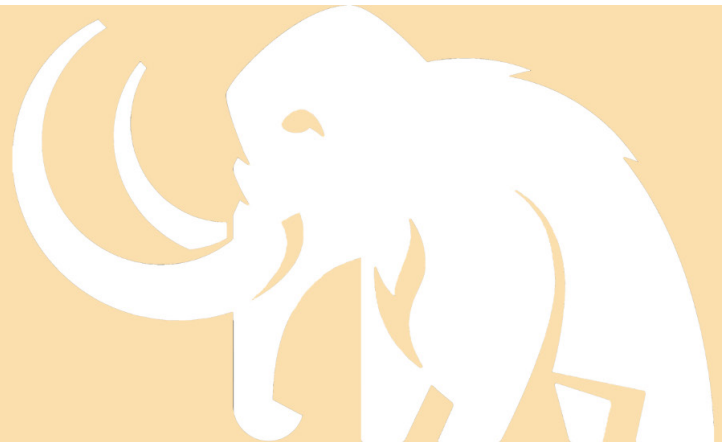
RECOMMENDED APPLICATION RATE

(mL / Gallon)

WEEK	SOIL	HYDRO
SEEDLING / CLONE		
1	0.6	0.6
VEGETATIVE		
2	0.6	0.6
3	0.6	0.6
4	0.6	0.6
BLOOM		
5	1	0.6
6	1	0.6
7	1.5	0.6
8	1.5	0.6
9	2.5	0.6
10	2.5	0.6
11	2.5	0.6
12	4	0.6
13	4	0.6
14	1	0.6
15	1	0.6



**SCIENTIFICALLY
PEER
REVIEWED**



Journal of Horticulture

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Research Article

OMICS International

Effects of a Microbial Biostimulant, Mammoth P[™], on *Cannabis sativa* Bud Yield

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Abstract

High-value medicinal uses of non-psychoactive non-tetrahydrocannabinol (THC) hemp extracts like cannabidiol (CBD) are expanding to help reduce pain, severity of epileptic seizures and anxiety. This has stimulated the expansion of large indoor Cannabis grow operations in several markets. One key problem facing indoor cannabis producers is finding solutions to increase yield without significantly increasing operating costs. The purpose of this work was to evaluate how inoculation with a new sustainable microbial biostimulant, Mammoth PTM, developed at Colorado State University, affects plant growth rates and characteristics in *Cannabis sativa*. Treatment with Mammoth P led to significant increases in bud yields in *Cannabis sativa* by 16.5%. This increase in yield was accompanied by increases in plant height, and basal stem area. Increasing yield using this sustainable technology will help offset these capital expenses, reducing risk and likely increasing net income for indoor propagation facilities in this newly emerging market.