



**ALL IN ONE PLANT  
SUPPLEMENT**

**POWERFUL PLANT SUPPLEMENT**


**TO ENHANCE PLANT GROWTH!**





# Amplify


Amplify is a powerful plant supplement designed to enhance plant growth and development during both the vegetative and flowering stages. This all-natural product is formulated with seven key ingredients: glutamate amino acid, absorbable beeswax extract, Chitosan oligosaccharides, B-vitamins, citric acid and ascorbic acid.

## Key Benefits

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Amplify combines proven ingredients, including two potent biostimulants and three highly effective chelates. This powerful formulation has been shown to significantly enhance plant quality, increase yields, and promote optimal plant expression.
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Amplify contains both B1 riboflavin and B2 thiamine. Aiding in the metabolic cycle of the plant, b-vitamins produce ideal root and shoot development.
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Amplify includes a surfactant of essential oils that can improve nutrient absorption and overall plant health.
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Amplify provides plants with support they need to thrive during both the vegetative and flowering stages.

## Advantages


- ✓ Irrigate with each watering indoors, or intermittently outdoors.
- ✓ Apply during both the vegetative phase and flower phase in conjunction with your typical feeding program.
- ✓ Specially formulated ratio of ingredients designed to be used in conjunction with Formula 1 nutrients.
- ✓ Ideal for both chemical and organic cultivation practices.
- ✓ Always add Amplify first except when using an absorbable silica product then add Amplify second.
- ✓ Amplify will not disrupt living soil microbiology or the life cycles of predatory insects.




## Different Applications




**Biostimulants and Chelates**



**Improve Nutrient Absorption**



**B-Vitamins**



**Optimal Growth**

## Composition (%w/w)

Beeswax extract .....	<b>2.0 %</b>
Chitosan Oligosaccharide .....	<b>2.0 %</b>
Gluconate Acid .....	<b>1 %</b>
Citric Acid .....	<b>2.2 %</b>
Ascorbic Acid .....	<b>4.4 %</b>
Vitamin B1 (Thiamine) .....	<b>1.15%</b>
Vitamin B2 (Riboflavin) .....	<b>0.1 %</b>

## Compatibility

Amplify is compatible with all automated dosing systems and hydroponics.


## Packaging




**5L**



**10L**



**20L**



**220L**



**1100L**

## Primary Ingredients



**Triacontanol:** Derived from beeswax, is a potent growth stimulator that plays a crucial role in enhancing plant growth and development. Improving photosynthetic efficiency, triacontanol boosts energy production. Supporting overall plant health, resulting in increased yields and enhanced oil and terpene production.

### Benefits

- Its ability to facilitate chlorophyll synthesis promotes optimal light absorption, leading to lush foliage and robust vegetative growth.
- Triacontanol derived from beeswax also acts as a natural hormone, promoting robust root development, increased root mass, nutrient uptake, and efficient water absorption.
- This ingredient ensures healthy plant growth, allowing your crops to thrive and achieve higher-quality yields.



**Chitosan Oligosaccharides:** Another essential component of Amplify. Providing exceptional benefits for plant growth and protection. These compounds strengthen the plant's natural defense mechanisms. Enhancing resilience against diseases, pests, and environmental stresses.

### Benefits

- By reinforcing the plant's immune system, Chitosan Oligosaccharides promote the development of healthier plants with improved resistance to external threats. This heightened plant resilience translates into higher-quality yields, enhanced flavor profiles, and overall improved crop performance.
- Integrating Chitosan Oligosaccharides in Amplify means your plants receive the vital support they need to thrive. Ensure optimal growth and protection throughout the entire crop's life cycle.

## Bio-stimulants



**Bio-stimulant-Triacontanol:** Derived from beeswax offer significant benefits for a wide variety of crops. This act as powerful growth stimulators, promoting vigorous vegetative growth and abundant flowering.

### Benefits

- Enhances photosynthetic efficiency, leading to increased energy production and improved plant health.
- Acts as a natural rooting hormone, promoting robust root development, nutrient uptake, and water absorption.
- Strengthens the plant's natural defense mechanisms. Enhancing its resistant to diseases, pests, and environmental stresses.
- Triacontanol can enhance the production of oils and terpenes, leading to a more robust and aromatic end product.



**Bio-stimulant-Chitosan Oligosaccharides:** Helps strengthen the plant's natural defense mechanisms, enhancing resistance to diseases, pests, and environmental stresses.

### Benefits

- Acts as a powerful immune system enhancer, fortifying plants against various stressors.
- Supports the production of trichomes, enriching the plant's aroma, flavor, cannabinoids and terpene profiles.
- Promotes strong, healthy plants with improved yields and enhanced resilience.

# Chelates

Amplify incorporates three powerful chelating agents: **gluconate**, **citric acid**, and **ascorbic acid**.

1.

**Gluconate** acts as a chelating agent by forming stable complexes with certain nutrients. improves nutrient solubility and availability.

2.

**Citric acid**, another chelating agent in Amplify, forms complexes with a wide range of nutrients. It enhances nutrient solubility and availability through its multiple carboxylic acid groups that participate in chelation.

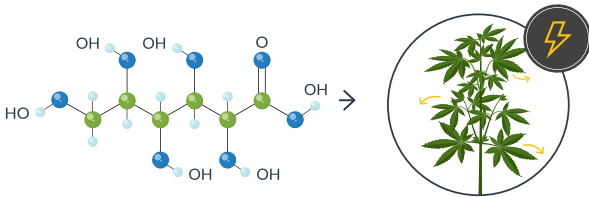
3.

**Ascorbic acid**, also known as vitamin C functions similarly to citric acid as a chelating agent. It forms complexes with various nutrients, improving their solubility and availability.



Together, these three chelating agents play a crucial role in Amplify by enhancing **nutrient availability**, **uptake**, and **utilization**, ensuring optimal nutrient absorption for robust plant growth and development.

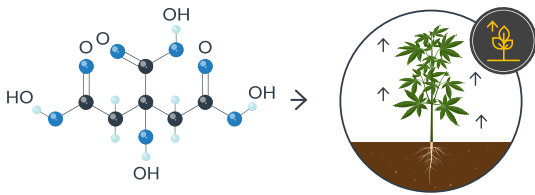
## Gluconate Acid



**Provides an energy boost, facilitating efficient metabolism of other key components such as triacontanol and chitosan, resulting in enhanced growth and development.**

- ✓ Increases the solubility of these nutrient complexes, preventing them from precipitating or becoming unavailable to plants.
- ✓ The chelate complexes formed by gluconate facilitate the uptake of nutrients by plant roots, making them more accessible for absorption.
- ✓ Provides an additional energy source for plants due to its carbon content. This energy can be utilized in various metabolic processes within the plant.
- ✓ Enhances the efficiency of metabolic pathways involved in nutrient absorption, translocation, and utilization.
- ✓ Aids in the breakdown of complex organic compounds into simpler molecules, making nutrients more readily available for plant metabolism.
- ✓ Activates enzymes involved in nutrient metabolism, ensuring efficient utilization of absorbed nutrients.
- ✓ Indirectly supports ATP production by optimizing energy metabolism and nutrient utilization.

## Citric Acid

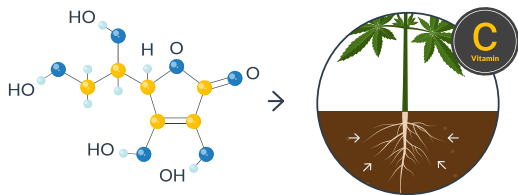


**Acting as a chelating agent, enhancing nutrient availability and absorption efficiency for improved plant growth and development.**

- ✓ Chelate complexes formed by citric acid improve nutrient absorption by plant roots, ensuring efficient uptake and utilization.

- ✓ Can help buffer the pH of the surrounding soil or nutrient solution, creating an environment that favors nutrient availability and uptake.
- ✓ Acts as an antioxidant, protecting plants against oxidative stress caused by environmental factors such as high light intensity or temperature.
- ✓ Promotes root development and elongation, leading to stronger and more extensive root systems that enhance nutrient uptake.
- ✓ May contribute to improved disease resistance in plants, as it helps fortify the plant's defense mechanisms against pathogens and diseases.
- ✓ Participates in various metabolic pathways, including the Krebs cycle, which it assists in energy production and nutrient metabolism.

## Ascorbic Acid



**Acting as a chelating agent, improving nutrient availability and uptake while contributing to overall plant health.**

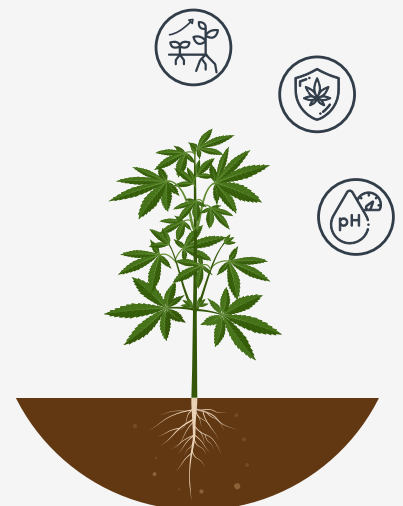
- ✓ Enhances the solubility and availability of nutrient complexes, improving their accessibility for plant uptake.

- ✓ Chelate complexes formed by ascorbic acid facilitate efficient nutrient absorption by plant roots, ensuring optimal uptake and utilization.
- ✓ Is a potent antioxidant that protects plants from oxidative stress caused by environmental factors, such as high light intensity or temperature.
- ✓ Regulates plant growth and development, influencing processes like cell division, expansion, and differentiation.
- ✓ Strengthens the plant's defense mechanisms, enhancing its ability to withstand diseases and pathogens.
- ✓ Helps plants cope with environmental stressors, such as drought, salinity, or extreme temperatures, improving their resilience.
- ✓ Involved in the synthesis of certain plant hormones, influencing various physiological processes.

## Other Benefits

**Gluconate, citric acid, and ascorbic acid** offer various other benefits in plant nutrition:

- **Gluconate** serves as an **energy source for plants**, supporting metabolic activities and optimizing nutrient utilization. It promotes robust root development, acts as a natural rooting hormone, and enhances stress tolerance, helping plants withstand adverse environmental conditions.
- **Citric acid**, with its acidic nature, contributes to **pH adjustments** in the plant's surroundings, creating an environment favorable for nutrient uptake and stability.
- **Ascorbic acid**, acts as a **powerful antioxidant**, protecting plants from oxidative stress and supporting overall plant health. By incorporating these additional benefits, Amplify provides a comprehensive solution for improving plant growth, nutrient absorption, stress tolerance, and overall plant vitality.





## Safety Data Sheet

Discover crucial information about the safety of our products! We are pleased to invite you to download our comprehensive Safety Data Sheet (SDS) in PDF format.

Sheet



**Amplify** is expertly formulated to maximize growth, boost defense mechanisms, improve nutrient absorption, and enhance aroma and flavor profiles. These combined benefits work harmoniously to unlock the full potential of your crop. **Make Amplify an integral part of your nutrient schedule!**



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