NOTICE: Always read and follow product label directions. Rx Green Technologies’ products can be used to promote and facilitate the growth of a variety of agricultural products and plants including, without limitation, cannabis. Rx Green Technologies does not own, distribute or sell cannabis. The research facility affiliated with Rx Green Technologies is fully compliant with all applicable state and local code. Please consult your local or state laws regarding what plants may lawfully be grown in your state.
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Our products were specifically formulated for use on cannabis plants, with the understanding that cannabis cultivation would move to large-scale production. Our solutions are designed to scale seamlessly in commercial cultivation operations without compromising results.

Given our primary goal of helping large-scale cannabis cultivators develop quality, high-yielding crops, we have invested significant capital in research and testing to ensure that our program outperforms. Our research and testing infrastructure and team allow us to provide the highest level of customer service to the commercial cannabis industry.

Rx Green Technologies has been family-operated since our founding in 2011.
NUTRIENT PROGRAM
OUR PRODUCTS PROVIDE OPTIMAL NUTRITION FOR BIOLOGICAL PLANT PATHWAYS

By using our natural-based program, growers can take advantage of truly innovative technology while also enjoying more efficient growing practices. Our mixing processes make it possible to combine ingredients that are not commonly put together in a single format, resulting in formulas that are genuinely unique.

Our ability to chemically combine certain ingredients has allowed us to create a straightforward regimen that makes feeding almost foolproof - following our program will result in an impressive crop. Our growing program provides nutrition to the plants that utilizes key biological pathways in the plant; these pathways are the building blocks for cannabinoid and terpene production.

Meanwhile, a low-salt formula with organic and fulvic acids drives plant formation of natural components while maximizing yields and helps to reduce production of phytotoxins.

In addition to organic components, the two-part nutrient program is formulated to facilitate nutrient uptake, making it a simple, yet complete package of macro and micronutrients that give the plant the nourishment it needs for all growth stages of cannabis, including root development, vegetative biomass, flower formation, and resin production.

All of the ingredients in Rx Green Technologies’ nutrients are the result of patented agricultural technology that is proven to be safe and effective for use in food crops. Our formulations are made with the highest quality ingredients, ensuring that heavy metal levels in the end product are extremely low. In addition, our products were developed to ensure nutrient stability while mixing.

In sum, we provide safe and effective biological technology to help your plants naturally reach their maximum potential.
Our Grow A and Grow B formulas provide the basis for everything your plants need for vegetative growth. These professionally formulated nutrients provide high performance ingredients in a simple to use program, utilizing technology that enhances photosynthesis, nitrogen uptake and micronutrient delivery.
GROW A & B
VEGETATIVE GROWTH

GUARANTEED ANALYSIS: GROW A
Total Nitrogen (N) ......................... 3.0%
   3.0% Nitrate Nitrogen
Soluble Potash (K₂O) ..................... 2.0%
Calcium (Ca) .............................. 4.0%

Derived From: Calcium Nitrate and Potassium Nitrate

GUARANTEED ANALYSIS: GROW B
Total Nitrogen (N) .............................. 1.0%
   0.64% Ammoniacal Nitrogen
   0.36% Nitrate Nitrogen
Available Phosphate (P₂O₅) .............. 2.0%
Soluble Potash (K₂O) ..................... 4.0%
Magnesium (Mg) .......................... 0.9%
   0.9% Water Soluble Magnesium (Mg)
Sulfur (S) ................................... 1.0%
Molybdenum (Mo) .......................... 0.001%

Derived From: Potassium Sulfate, Magnesium Nitrate, Monoammonium Phosphate, Magnesium Sulfate, Potassium Nitrate, Sodium Molybdate

Claims based on United States labels only.
BLOOM A & B

REPRODUCTIVE GROWTH

Bloom A and Bloom B were developed to deliver high performance inputs to drive bud development in flowering plants. Like Grow A and Grow B, these products also provide essential micronutrients for your plants.

The formula’s technology stabilizes phosphorus, enhancing its availability in solution and thus absorption by the plant.
# BLOOM A & B

## REPRODUCTIVE GROWTH

**GUARANTEED ANALYSIS: BLOOM A**

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Guaranteed Analysis (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Nitrogen (N)</td>
<td>2.0%</td>
</tr>
<tr>
<td>2.0% Nitrate Nitrogen</td>
<td></td>
</tr>
<tr>
<td>Soluble Potash (K₂O)</td>
<td>4.0%</td>
</tr>
<tr>
<td>Calcium (Ca)</td>
<td>1.5%</td>
</tr>
<tr>
<td>Magnesium (Mg)</td>
<td>0.5%</td>
</tr>
<tr>
<td>0.5% Water Soluble Magnesium (Mg)</td>
<td></td>
</tr>
<tr>
<td>Molybdenum (Mo)</td>
<td>0.001%</td>
</tr>
</tbody>
</table>

Derived From: *Potassium Nitrate, Calcium Nitrate, Magnesium Nitrate, Sodium Molybdate*

**GUARANTEED ANALYSIS: BLOOM B**

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Guaranteed Analysis (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Nitrogen (N)</td>
<td>1.0%</td>
</tr>
<tr>
<td>1.0% Ammoniacal Nitrogen</td>
<td></td>
</tr>
<tr>
<td>Available Phosphate(P₂O₅)</td>
<td>8.0%</td>
</tr>
<tr>
<td>Soluble Potash (K₂O)</td>
<td>5.0%</td>
</tr>
<tr>
<td>Magnesium (Mg)</td>
<td>0.5%</td>
</tr>
<tr>
<td>0.5% Water Soluble Magnesium (Mg)</td>
<td></td>
</tr>
<tr>
<td>Sulfur (S)</td>
<td>1.0%</td>
</tr>
<tr>
<td>Molybdenum (Mo)</td>
<td>0.001%</td>
</tr>
</tbody>
</table>

Derived From: *Monoammonium Phosphate, Tri Potassium Citrate, Magnesium Sulfate, Dimethyl Sulfone, Sodium Molybdate*

*Claims based on United States labels only.*
DIRECTIONS FOR USE: GROW
Mix GROW A in water and mix well. Then add GROW B and mix well. The combined solution can be applied as a drench in any type of growing media or hydroponic system. This product is ideal during the vegetative development and growth stage of the plant.

DIRECTIONS FOR USE: BLOOM
Mix BLOOM A in water and mix well. Then add BLOOM B and mix well. The combined solution can be applied as a drench in any type of growing media or hydroponic system. This product is ideal during the reproductive development and growth stage of the plant.

FEEDING TIPS
- Always use equal parts of A and B.
- Depending on type of feeding system and environment, rates may need to be adjusted up or down.

pH Tips
- These products work best when pH is unadjusted prior to application.
- A pH range of 3.0-6.0 with these products is safe for plants.
- If necessary, adjust pH down using an acid-based product such as phosphoric or sulfuric acid.
- If necessary, adjust pH up using a potassium hydroxide product. Silicates and carbonates may cause unwanted pH fluctuations.
Rx Green Technologies’ natural-based program contains a full spectrum of nutrients at balanced ratios for superior plant performance. The program was developed for growers who want to improve both yields and quality (terpenes, cannabinoid profiles and potency) through a simple program.

**Key Technology in Two-Part Nutrients:**

» Phosphorus Uptake: The phosphate technology in our nutrient products helps keep phosphorous available for plant uptake. Phosphorous is nutrient for plant growth, energy production and storage.

» Improves Nitrogen Usage: Our organic acid technology enhances the nitrogen uptake and use efficiency by the plant. The organic acids in our formulation allow for plants to easily take in available nitrogen. Once inside the plant, the acids allow for more efficient incorporation into molecules necessary for plant growth.

» Built in Metabolite Enhancer: Naturally-occurring compounds enhance the shikimic pathway, which converts carbohydrates into three amino acids: tryptophan, tyrosine, and phenylalanine. These amino acids are the precursors for a variety of molecules that naturally protect the plant from environmental stresses and pests.

» Amino Acid Chelates: The amino acid complex keeps micronutrients in an optimal form until they are ready to be utilized by the plant. These amino acids are neutrally charged and therefore easily absorbed by the plant with minimal energy loss. Our micronutrients are more easily absorbed, supporting key physiological processes like chlorophyll production, carbohydrate metabolism, and enzymatic activity.
E-PLUS
KELP, YUCCA AND HUMIC ACID

E-PLUS is a product derived from traditional and organic ingredients, including plant extracts (kelp and yucca) and humic acid.

E-PLUS can be used throughout the plant’s life cycle to enhance nutrient uptake and stress tolerance. The organic components help plants to mitigate stress and support plant growth and development.

GUARANTEED ANALYSIS: E-PLUS
Total Nitrogen (N) ......................... 3.0%
  0.25% Ammoniacal Nitrogen
  2.5% Nitrate Nitrogen
  0.25% Other Water Soluble Nitrogen

Soluble Potash (K₂O) ..................... 1.0%

Calcium (Ca) ............................. 4.0%

Derived From: Soy Protein Hydrolysate, Whey, Compost, Calcium Nitrate, Potassium Nitrate, Kelp Extract and Potassium Hydroxide
DIRECTIONS FOR USE: E-PLUS

E-PLUS (3-0-1) can be applied as a root drench in any type of growing media. Mix into solution after mixing bases.

FEEDING TIPS

pH Tips
- These products work best when pH is unadjusted prior to application.
- A pH range of 3.0-6.0 with these products is safe for plants.
- If necessary, adjust pH down using an acid-based product such as phosphoric or sulfuric acid.
- If necessary, adjust pH up using a potassium hydroxide product. Silicates and carbonates may cause unwanted pH fluctuations.

Key Ingredients in E-PLUS

» Humic Acid: One of the most important roles humic acid plays in horticulture is the ability to act as a chelating agent to the micronutrients. This allows the plant to uptake these nutrients much more readily and efficiently.

» Kelp: Sea kelp contains an abundance of naturally occurring growth enhancers which improve cell division and cell enlargement, as well as reduce chlorophyll degradation.

» Yucca: Yucca contains natural wetting agents called saponins, which make water wetter by breaking the polarity of the water molecule. When adding yucca extracts to the nutrients and water it allows nutrients to be more available for plant uptake. The saponins also improve nutrient penetration of roots. Thus, the nutrients are able to be used more efficiently and quickly by the plant.

» Calcium: Calcium is needed throughout the entire growing cycle. In the early growth stages, calcium aids in the formation of cell walls and membranes, which helps to strengthen and thicken cell walls. Increased thickness of cell walls improves pathogen resistance and creates a stronger plant stalk.

NOTE: Due to the organic components in E-PLUS, biofilm may form in recirculating and drip emitter systems if not properly sanitized and flushed.

Claims based on United States labels only.
BULK PK BOOSTER

BULK is a PK booster containing a blend of phosphorus, potassium and calcium in a true solution. BULK should be used in the flowering stage to optimize flower production and increase flower size and density. BULK promotes photosynthesis and the development of amino acids and carbohydrates in the plant.

GUARANTEED ANALYSIS: BULK
Total Nitrogen (N) ......................... 2.0%
  2% Nitrate Nitrogen
Available Phosphate (P\textsubscript{2}O\textsubscript{5}) ............. 12.0%
Soluble Potash (K\textsubscript{2}O) ................. 3.0%
Calcium (Ca) ................................ 5.0%

Derived From: Calcium Nitrate, Phosphoric Acid, Monopotassium Phosphate, Dipotassium Phosphate & Tripotassium Phosphate
DIRECTIONS FOR USE: BULK

BULK (2-12-3) can be applied as a root drench in any type of growing media. Mix into solution after mixing bases.

FEEDING TIPS

pH Tips
-These products work best when pH is unadjusted prior to application.
-A pH range of 3.0-6.0 with these products is safe for plants.
-If necessary, adjust pH down using an acid-based product such as phosphoric or sulfuric acid.
-If necessary, adjust pH up using a potassium hydroxide product. Silicates and carbonates may cause unwanted pH fluctuations.

Key Ingredients in BULK:

» **Phosphorus**: is required in ATP synthesis. The ATP molecule is the main carrier and storage unit of a plant’s energy. It acts as a “battery,” storing and releasing energy as needed. ATP provides energy needed by the plant to convert carbon dioxide into carbohydrates during photosynthesis.

» **Calcium**: is found in nearly every plant cell and contributes to cellular structure. Without calcium, cell walls collapse and become leaky. Calcium also aids mineral transport, by moving nutrients from the root zone through the xylem. The flowering cycle of a plant comes with increased nutrient demands, making additional calcium necessary for flower growth.

» **Potassium**: promotes the conversion of nitrogen and glucose into amino acids and protein. Potassium plays a large role in the enzyme activation necessary for protein synthesis, as well as enzymes used in photosynthesis and ATP synthesis. Potassium is also crucial for water balance.

*Claims based on United States labels only.*
FAQ

BASE NUTRIENTS

WHY DO THE TWO-PART NUTRIENTS MIX INTO SOLUTION AT A LOWER pH THAN USUAL?

Our products are lower on the pH scale than many salt-based formulas due to some organic inputs. These inputs allow the plants to naturally buffer the rhizosphere without negatively impacting nutrient uptake. Therefore, we don’t recommend adjusting the pH as long as the solution falls between 3.0-6.0. If the pH falls below 3.0, adjust pH levels using potassium hydroxide; do not use potassium carbonate or potassium silicate. If the pH rises above 6.0, adjust with phosphoric, nitric or sulfuric acid.

IN WHAT TYPE OF SYSTEMS CAN I USE YOUR NUTRIENTS?

Rx Green Technologies’ nutrients are formulated to run in many different systems, including drain-to-waste system, recirculating systems, and drip irrigation systems in soil and soilless media. For best results with recirculating systems, change and clean the nutrient reservoir every 7 days.

WHAT IS THE BEST WAY TO MIX UP, AND WHAT SHOULD I AVOID DOING?

Add one part to water, mix thoroughly, then add next part to water. Do not mix two concentrates together before adding to water. This can lead to chemical burns and/or chemical reactions that will change the nutrient profile.

WHY AM I GETTING A FUNKY SMELL FROM MY VEG MIX?

Due to the organic components in products, especially E-PLUS, a biofilm may form in solution if left standing for more than 3 days. This can lead to an unusual smell, clogged drip lines or altered nutrient availability.

WHY IS THE COLORING DIFFERENT SOMETIMES?

The organic components may cause the color to vary over time. This does not affect the products.
WHAT IS THE SHELF LIFE OF YOUR NUTRIENTS?
Unopened products are stable for a minimum of two years. Once opened, they will remain stable as long as there is no external contamination. If products freeze, they can be thawed and used according to instructions after thorough agitation. Products can sustain temperatures up to 120 degrees without adverse effects.

WHERE EXACTLY DO YOU SOURCE RAW MATERIALS FROM?
All raw materials are pharmaceutical-grade, sourced from suppliers in North America.

ARE YOUR NUTRIENTS pH STABLE?
Our products have a low pH, and are most effective when the pH is unadjusted. The organic acids in our products will cause some upward pH fluctuations as the plant is feeding. This is normal, but expect to see more rapid changes in recirculating and aerated systems. When mixing your solution make sure it is in the ideal range initially, and if it rises above 6.0 in the following days adjust back to the ideal range of 3.0-6.0.

ARE YOUR NUTRIENTS CERTIFIED ORGANIC?
Our nutrients do not hold an Organic Materials Review Institute (OMRI) certification at this time. We believe that a blend of elemental minerals and natural additives provide the best possible nutrition for plants grown in a variety of systems. Organic fertilizers require organisms to break down nutrients into a form that plants can absorb. This can be difficult to stabilize and may produce inconsistent results in a hydroponic growing environment.

ARE THERE ANY PLANT GROWTH REGULATORS (PGRS) IN YOUR NUTRIENTS?
Rx Green Technologies’ products do not contain any synthetic growth hormones or regulators, but do contain naturally occurring hormones from plant-derived materials.
FAQ

HOW LONG CAN I LEAVE YOUR NUTRIENTS MIXED IN MY RESERVOIR?
We do not recommend leaving nutrients in your reservoir for more than 4 - 7 days in a recirculating system. If you are having problems with your reservoir developing a biofilm or getting murky, you may need to change the solution more often. We recommend adding hydrogen peroxide, hypochlorous acid or quaternary ammonium salts to help stabilize pH and combat pathogens in the nutrient solution.

ARE THERE HEAVY METALS IN YOUR PRODUCTS?
Because we designed our nutrients for use on cannabis, and we understand cannabis is often smoked, we committed to create products with low levels of heavy metals for cultivating plants that will be safe for human consumption. We did so in two ways: use of pharmaceutical grade minerals and excluding animal-based ingredients. The levels of heavy metals in cannabis grown with our nutrients are essentially non-existent. Visit our website for more information: www.rxgreentechnologies.com/education.html

E-PLUS

HOW LONG CAN I LEAVE E-PLUS IN A STANDING RESERVOIR?
We do not recommend leaving E-PLUS in your standing reservoir for more than 24 hours. The product performs best when mixed and then used immediately.

CAN I USE IT IN MY DRIP SYSTEM AND DOSERS?
Due to the organic components in E-PLUS, biofilm may form in recirculating and drip emitter systems if not properly sanitized or pressurized. See our website for more information on best management practices with irrigation systems.
**BULK**

**WHAT MAKES BULK UNIQUE?**

BULK is a PK booster specially formulated for cannabis to improve plant performance, yield and quality. Our exclusive technology allows for calcium and phosphorus to be combined together in one product, reducing the need for additional supplements.

**DOES BULK INCREASE TRICHOMES AND OIL PRODUCTION?**

While trichome and oil production are largely dependent on environmental conditions and plant genetics, the nutrients in BULK are essential for the increased metabolism during the reproductive phase. Calcium, potassium and phosphorus are all required in larger amounts during this stage for the biochemical pathways and enzymes used by the plant to produce oils and trichomes.

**DOES BULK WORK AS A HARDENER?**

The inclusion of extra calcium in BULK contributes to density, or “hardness,” by increasing the dry matter content of the finished flowers. Potassium also helps to increase weight and density.

**WHY IS PHOSPHORUS HIGHER THAN POTASSIUM?**

BULK was formulated to give the plant exactly what it needs during flower stage to increase bud density and dry bud weight most effectively. This formula was tested against many other solutions with varying amounts of potassium, and our current formula provided the top results.
CLONING
Cloning, or asexual propagation, is the process by which a cutting is taken from a stock plant and placed in a substrate to encourage root production. The hormones within the plant are responsible for the rooting process, which can be expedited with a few simple additives.

The Rx Green Technologies’ LIFE Cloning products were designed to reduce rooting time and improve quality with a simple, easy-to-use formula. The LIFE Cloning Solution contains a light blend of nutrients that are essential for promoting root development and reducing plant stress. The LIFE Cloning Gel contains a small amount of a naturally occurring hormone that stimulates rooting, along with vitamins and amino acids. The LIFE Cloning Mist was designed specifically to assist plants in stress recovery and to reduce rooting time.
Rx Green Technologies’ LIFE Cloning Solution is formulated to provide the nutrient inputs that assist in early root and plant development. LIFE has a unique blend of ingredients that combine essential carbohydrates and minerals to promote energy, metabolism, and protein synthesis.

Extensive research and development has shown that LIFE reduces the number of days to root from cuttings and increases cuttings’ overall survival rates.

GUARANTEED ANALYSIS: LIFE
Total Nitrogen (N) .........................0.5%
   0.5% Nitrate Nitrogen
Available Phosphate (P₂O₅) ..............1.0%
Soluble Potash (K₂O) ......................0.5%
Derived From: Calcium Nitrate, Phosphoric Acid & Potassium Phosphate

Claims based on United States labels only.
Rx Green Technologies’ LIFE Cloning Gel contains a blend of rooting hormones and all natural ingredients. Formulated to produce roots in any substrate, this gel will work with rooting cubes or aeroponic machines.

LIFE Cloning Mist is a foliar product designed for use in the propagation stage. It provides essential ingredients and anti-stress bioactive molecules to assist root development and stress recovery for cuttings taken from stock plants.

Claims based on United States labels only.
FAQ

CLONING SOLUTION

ARE THERE GROWTH HORMONES IN LIFE™ CLONING SOLUTION?

LIFE Cloning Solution contains no synthetic growth hormones. LIFE does contain a low-salt, safe, and effective formula that will aid in root development up to 20% faster than leading brands.

MY CLONES HAVE STARTED ROOTING AND ARE STARTING TO YELLOW. WHAT SHOULD I DO?

Add GROW A or increase LIFE Cloning Solution. LIFE Cloning Solution is a unique formula; it not only triggers root development in cuttings, but it also facilitates top growth. As a result, your plants may need additional nitrogen to fuel this growth.

CLONING GEL

HOW IS YOUR GEL MORE NATURAL THAN OTHER GELS ON THE MARKET?

It is protected from degradation by thyme oil, which is a naturally occurring biocide. Typical rooting hormones in the market use a chemical biocide such as 1,2-benzisothiazol-3(2H)-one, which has known health and environmental concerns.

WHAT SHOULD I DO AFTER I OPEN THE BOTTLE OF GEL?

Seal and keep in a cool dark place. The shelf life of LIFE Cloning Gel is two years; extreme hot or cold conditions can reduce the shelf life once opened or exposed to the air.

WHAT’S THE BEST WAY TO KEEP THE GEL SANITARY IN LARGE BOTTLES?

Do not dip cuttings directly into gel containers. Pour off the desired amount into a small, washable or disposable container before dipping cuttings.
**CLONING MIST**

**WHAT’S IN YOUR MIST?**

The LIFE Cloning Mist contains a proprietary blend of essential plant minerals in a highly absorbable form, with natural ingredients that have been proven to enhance the plant’s health, stress resistance, and rooting time.

**HOW LONG BEFORE TAKING MY CUTTINGS SHOULD I SPRAY THE PLANT?**

We recommend spraying the stock plant two to five days prior to taking a cutting.

**HOW OFTEN BEFORE TRANSPLANT SHOULD I SPRAY MY CUTTINGS?**

Every other day. You can spray more often if required to keep the leaves moist.

**WHY SHOULD I USE A MIST?**

By applying LIFE Cloning Mist, you are giving the plant the molecules it needs to assist in transplant shock; this allows the plant to focus on developing root systems.

**SHOULD I MIST FRESHLY TRANSPLANTED CLONES?**

Yes, the clones are still fragile and could experience transplant shock when transplanted. We recommend using LIFE Cloning Mist one time after you transplant.
SUPPLEMENTS
LIKE EVERYTHING IN LIFE, IT IS THE LITTLE THINGS THAT CAN MAKE THE BIGGEST DIFFERENCE. THE RX GREEN TECHNOLOGIES’ LINEUP OF SUPPLEMENTS PROVIDES AN EXTRA BOOST TO HELP YOUR GARDEN ACHIEVE ITS FULL POTENTIAL. THOUGH MOST OF OUR PRODUCTS CAN BE USED SEPARATELY, TOGETHER THEY PROVIDE OPTIMUM RESULTS.

BEGINNING WITH OUR ROOT™ PRODUCT, YOU WILL ADD BENEFICIAL MICROBES TO YOUR SOIL TO MAXIMIZE NUTRIENT AVAILABILITY. FOLLOWING UP EVERY TWO WEEKS WITH OUR AXIOM™ FOLIAR SPRAY MOBILIZES THE ESSENTIAL NUTRIENTS FOR OPTIMAL PLANT GROWTH AND HEALTH.

ADDING THESE EFFECTIVE SIMPLE-TO-USE PRODUCTS TO YOUR GROW WILL RESULT IN HAPPY, HEALTHY PLANTS.
AXIOM™
HARPIN PROTEINS

AXIOM is derived from naturally occurring harpin proteins proven to stimulate the plant’s natural growth and defense systems. Use Rx Green Technologies’ AXIOM for both indoor and outdoor gardening to boost overall plant growth, vigor, and production, and to aid in the prevention of disease.

Claims based on United States labels only.
AXIOM™ is an Rx Green Technologies supplement that goes much farther than most plant protection and boosting products. It is a natural, completely safe, non-toxic, and effective plant health promoter. AXIOM contains harpin proteins that signal the presence of pathogens. The harpin proteins trigger the plant to produce proteins based on their genetic code that fight off disease and pests.

HOW DOES AXIOM WORK?
The signaling protein in AXIOM triggers an initial reaction in the plant immediately after spraying. This hypersensitive response (HR) triggers the plant’s genetic code to create an immune response. This in turn leads to systemic acquired resistance (SAR) in the plant, resulting in a stronger, healthier plant able to fight off disease and pests.

WHAT IS IN AXIOM?
AXIOM contains harpin proteins, a signaling molecule that alerts the plant to the presence of a pathogen. This molecule stimulates the plant’s immune system, which in turn creates a systemic chain reaction resulting in accelerated growth, significantly increased photosynthesis, and mobilization and utilization of essential macro and micronutrients. The package contains the protein molecule and a starch-based buffer to protect the protein.

WHAT ARE HARPIN PROTEINS?
Harpin proteins are plant health promoters produced in nature by certain bacterial plant pathogens. They activate a plant’s immune system and trigger growth and defense genes, resulting in improved plant growth, increased yield and quality, and greater shelf life.

WHAT DO THEY DO? WHY ARE THEY BENEFICIAL?
Harpin proteins are proven to boost a plant’s immune system. When plant cells detect the presence of the harpin proteins, they trigger an early warning system commonly called systemic acquired resistance (SAR). This sends a signal throughout the plant to activate certain defensive and growth responses in order to fight off pathogens. These responses help plants survive the stresses and threats of disease.
ROOT™
BENEFICIAL MICROBES

ROOT is a fully soluble biological inoculant and soil amendment which promotes beneficial bacterial colonization at the roots. It contains eight different beneficial microbes; these natural organisms convert nitrogen and phosphorus to plant available forms, improving soil fertility and plant nutrition. ROOT also contains Myconate® (formononetin), a naturally occurring substance proven to stimulate the colonization of beneficial root organisms.

» A highly concentrated bacteria mix (250M cfu/g)
» Ready to use (no brewing needed)
» Technology to stimulate colonization of beneficial root organisms

Claims based on United States labels only.
ROOT™ produces results by utilizing the natural biochemical processes in your plants. Each component employs a different process, each of which boosts the plants’ natural health mechanisms.

**WHAT IS IN ROOT AND HOW DOES IT WORK?**

- ROOT is comprised of beneficial bacteria and formononetin that act in a variety of ways.
- The bacteria help to break down the larger nutrient molecules in the soil, making uptake easier for the plant’s root system.
- Other beneficial bacteria solubilize otherwise insoluble phosphorous increasing the availability of this essential macronutrient.
- A special class of bacteria in ROOT absorbs nitrogen from the air in the soil and makes it available to the plant’s root system.
- Trichoderma, an important ingredient in ROOT, is a beneficial fungal spore that defends the plant’s root system from attack by pathogens in the soil.
- The Myconate® (formononetin) technology, exclusive to Rx Green Technologies, in ROOT is a signaling molecule that activates bacteria colonization on plant roots and stimulates the growth of any mycorrhizal fungi present in the soil.

**HOW DO I USE ROOT?**

- Mix the product in water according to the recommended rates and then drench the soil of the plants. ROOT should be applied as a stand-alone product and not mixed with nutrients in the same container.
FAQ

AXIOM

CAN I USE CHLORINATED WATER WITH AXIOM™?
Yes. Rx Green Technologies’ formula includes inert buffers that allow for easy application and mixing with water.

WHAT ARE THE INGREDIENTS IN AXIOM?
AXIOM contains 1% Harpinαβ protein and 99% other ingredients. Harpin proteins are very powerful; only a small amount generates strong plant health and growth. The other ingredients are inert food-grade non-toxic substances.

HOW SHOULD I STORE THE OPENED PACKET?
Reseal using a paperclip or other device and store in a cool dark place. You should use AXIOM within three weeks of opening. Refrigeration can help preserve it for longer.

I HEARD YOU CAN SPRAY WITH THE LIGHTS ON? DOESN’T THIS CAUSE BURNING OR BOTRYTIS?
First, AXIOM should be applied to the plant canopy as a light mist; therefore no burning should occur (2 g mixes with 1 gallon and covers 1,000 square feet). Total coverage of the plant is not required. We recommend using AXIOM right before or as the lights come on, since the product triggers a photosynthesis response in the plant. This response is much more effective while the plant is actively photosynthesizing.

HOW LATE INTO FLOWER CAN I SPRAY THIS?
We recommend applying up to two weeks before harvest. AXIOM is a protein and is absorbed by the plant. It is all-natural and non-toxic, but if you are nervous about using a foliar application in the late flowering stage, you can apply it only to the lower fan leaves. Because AXIOM works systemically, once the plant detects the harpin proteins, it will generate a plant-wide response.
ROOT

CAN ROOT BE HARMFUL TO HUMANS SINCE IT HAS BACTERIA IN THE PRODUCT?
The bacteria in ROOT are plant-specific and are not harmful to humans.

CAN ROOT BE OVER-APPLIED AND CAUSE DAMAGE TO MY GARDEN?
It is best to apply ROOT according to the label rates; however, even significantly over-applying ROOT will not cause damage to your plants. It is microorganism-based, so only those organisms that receive enough food will survive, and the rest will simply die off.

WHY IS IT FOAMING?
The bacteria activate and multiply when mixed in water, resulting in foam.

DO I NEED TO pH MY WATER BEFORE APPLYING ROOT?
It is not recommended to add pH adjusters to water when mixing with ROOT, as this can damage the microbes.

CAN I USE THIS AS A FOLIAR?
No. The beneficial microbes are effective at the root zone, breaking down nutrients into more available forms.

WHAT IS FORMONONETIN?
Formononetin is a naturally occurring compound, originally discovered in plant roots with drought stress. It is proven to stimulate mycorrhizal activity and improve nutrient solubilization and availability.

CAN I USE ROOT IN MY RECIRCULATING SYSTEM?
We do not recommend ROOT for use in a recirculating system. It can cause foaming and bacteria build up that is difficult to clean.
PEST MANAGEMENT
Your cannabis cultivation environment is relentlessly threatened by fungal diseases. These diseases slow growth, decrease yields, and can destroy entire crops. It is imperative that you implement a thoughtful and consistent pest management strategy.

Our proprietary surfactant and stabilization formulation allows for precise blending of fungus-fighting compounds. The chemical technology in FORTIFY provides excellent coverage of leaf surface and rapid absorption of active compounds. No second surfactant product needed.

FORTIFY products are exempt in compliance with FIFRA Section 25(b).
FORTIFY FUNGICIDE

POWDERY MILDEW

FORTIFY FUNGICIDE both prevents and controls powdery mildew in cannabis cultivation environments. FORTIFY FUNGICIDE ingredients are exempt in compliance with FIFRA Section 25 (b).

» Cinnamon oil provides control against bacteria and inhibits the enzyme synthesis abilities of fungal pathogens. Also controls pathogenic fungi and attracts beneficial insects, allowing it to work in synergy with insect control products.

» Thyme Oil disrupts cellular membranes, resulting in the death of pathogens.

» Linseed oil works to disrupt the pathogen’s cell membrane. This disruption leads to the release of cellular components and cell disintegration.

Claims based on United States labels only.
FAQ

WHAT IS THE RE-ENTRY INTERVAL (REI) FOR FORTIFY?
One hour.

HOW LATE IN FLOWER CAN I SPRAY THIS?
This product is safe to apply until harvest, but use caution in late flower to avoid damaging pistils.

CAN I TANK MIX THIS WITH OTHER PRODUCTS?
Yes, FORTIFY FUNGICIDE can be tank mixed. We suggest a jar test before mixing an application batch. To tank mix, add 50% of the water volume followed by FORTIFY FUNGICIDE and mix thoroughly. Then add the second product and mix thoroughly. Lastly, add the final 50% of water. Since this an oil based product, components can separate if left in water over time.

SHOULD I PH ADJUST MIXED FORTIFY FUNGICIDE?
No.

WILL THIS WORK FOR PYTHIUM/BOTRYTIS/FUSARIUM/ETC.?
The active ingredients have been shown to be effective against many fungal diseases but this product was only tested on powdery mildew.

CAN I USE THIS AS A DRENCH?
No, this product is for foliar application.

WHAT KIND OF SPRAYER SHOULD I USE?
A variety of different sprayer types can be used to apply FORTIFY FUNGICIDE. Ensure that sprayers used can be properly calibrated to give accurate doses of pesticide per coverage area. Inaccurate sprayer calibration can result in poorly applied pesticides that do not control pests.
FAQ

DOES COVERAGE RATE DEPEND ON SPRAYER TYPE?
Yes. High volume hydraulic type sprayers usually cover 200-400 sq. ft per gallon. Low-volume sprayers such as foggers usually cover 5000-10000 sq. ft per gallon. Backpack sprayers with a boom and flat fan nozzles attached can be calibrated appropriately for this use. Higher volume applications can ensure better coverage of leaf surfaces. Consult your sprayer manual to determine appropriate carrier volume and product rates for your sprayer type.

INDOOR: SHOULD I SPRAY WITH LIGHTS ON OR OFF?
Spray with lights off for best results. Allow plants to dry before turning lights on. This product can be applied under direct light with minimal phytotoxicity, if applied within recommended rates.

OUTDOOR: WHAT TIME OF DAY SHOULD I SPRAY?
Spray in early morning or late evening for best results. This product can be applied under direct light with minimal phytotoxicity, if applied within recommended rates.
SUBSTRATES
Substrates, or growing media, are the materials that physically support cannabis plant growth. Hydroponic substrates also serve as the living space for plant roots. An effective substrate should maintain moisture and allow for adequate aeration. Substrates should be effective, convenient, and quality controlled.

RX Green Technologies substrates allow cultivators the optimal root environment for plant and inputs management. Our substrates are distributed directly to cultivators, keeping your costs to a minimum. Before they leave our US manufacturing facility, our substrates are lab tested and quality assured.

**RX GREEN TECHNOLOGIES SUBSTRATES: HIGH QUALITY PRODUCTS SOLD AT COMMODITY PRICES.**
COCO COIR
ORGANIC & NATURAL

Coco coir is an ideal growing medium. It retains moisture and promotes drainage. Coco also has a high cation exchange capacity, which allows it to store and release nutrients as your plants require them. Coco coir is a sustainable and renewable resource.

» All raw materials in CLEAN COCO are OMRI Listed®.
» CLEAN COCO comes ready for use in a biodegradable bag.
» Our CLEAN COCO is lab tested at its source, upon arrival to our US manufacturing facility, and again before it begins its journey to you.
» CLEAN COCO is stored inside and shipped via covered trucks and shipping containers, ensuring protection from environmental toxins and pests.

Claims based on United States labels only.
FAQ

WHAT IS CLEAN COCO MADE OF?
CLEAN COCO is made of coco coir. Coco coir primarily consists of the coir fiber pith or coir dust obtained by processing coconut husk and removing long fibers. The chemical constituents of coco coir include cellulose, lignin, potassium, phosphorus, chloride and sodium. There are also trace amounts of nitrogen, magnesium, calcium and micronutrients found in coir.

HOW IS CLEAN COCO PROCESSED?
Coco coir fibers are the result of harvesting coconut fruit from the outer shell. The fibers are then gathered into large piles to be rinsed. Because coconuts grow in a tropical climate, rains during monsoon season thoroughly rinse the coco coir fibers. The coco is then dried and shipped to our US manufacturing facility. We rehydrate the coco, add perlite, and send it out to you.

HOW SHOULD I MANAGE PLANTS IN CLEAN COCO?
CLEAN COCO should be flushed with plain water at regular intervals. This will prevent salt buildup and nutrient lockout. Plants potted in a coco substrate that are fed a high EC nutrient solution may experience salt stress if the medium is not rinsed throughout the growing cycle or allowed to drain more freely. If one or more daily feedings are provided, the EC should be lowered accordingly and weekly plain water feeds should be applied as necessary.
# DRAIN TO WASTE

<table>
<thead>
<tr>
<th>STAGE</th>
<th>VEGETATIVE GROWTH</th>
<th>REPRODUCTIVE GROWTH</th>
<th>FLUSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>WEEK</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>WEK</td>
<td>1 2 3 4</td>
<td>1 2 3 4</td>
<td>1 2 3 4</td>
</tr>
<tr>
<td>EC</td>
<td>1.0 1.3 1.4 1.4</td>
<td>1.7 1.7 2.2 2.4 2.1 1.8 1.2</td>
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</tr>
<tr>
<td>PPM (TDS/500)</td>
<td>500 650 700 700</td>
<td>850 850 1100 1200 1050 900 600</td>
<td></td>
</tr>
<tr>
<td>GROW A</td>
<td>4 6 6 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GROW B</td>
<td>4 6 6 6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BLOOM A</td>
<td>10 10 10 12 12 10</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>BLOOM B</td>
<td>10 10 10 12 12 10</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>E-PLUS*</td>
<td>2 2 3 3</td>
<td>3 3</td>
<td></td>
</tr>
<tr>
<td>BULK™</td>
<td></td>
<td>6 6 3 3</td>
<td></td>
</tr>
</tbody>
</table>

**BASES**

-ml per 1 US gallon (unless otherwise noted)

-These rates are based on distilled water. Water quality will vary and may increase the PPM/EC.
-This chart is a basic guideline. Use recirculating or runoff PPM to adjust as needed.
-If using a recirculating system, amended media, or feeding multiple times a day, reduce initial feed rates by 25%.
-Measure the PPM of runoff weekly; runoff should be within +/- 20% of initial feeding.
-For longer vegetative cycles, continue week 4 feeding.
-For longer reproductive cycles, continue week 4 feeding.

**ADDITIVES**

*1 mL/gal of E-PLUS may be used throughout flowering if additional nitrogen is needed.

**pH TIPS**

-These products are most effective when the pH is unadjusted.
-If pH falls below 3.0, adjust with potassium hydroxide; do not use potassium carbonate or potassium silicate (pH of 3.0 or lower may result in nutrient deficiency).
-If pH rises above 6.0, adjust with phosphoric, nitric or sulfuric acid.
-Using an air stone in a standing reservoir is not recommended with our products, as they contribute to rapid rise in solution pH. Gentle agitation, such as with a recirculating pump, can be used if agitation is required.
### Axiom

<table>
<thead>
<tr>
<th>STAGE</th>
<th>Vegetative Growth</th>
<th>Reproductive Growth</th>
<th>Flush</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WEEK</strong></td>
<td>1 2 3 4</td>
<td>1 2 3 4</td>
<td>6 7 8</td>
</tr>
<tr>
<td><strong>LIGHT HOURS</strong></td>
<td>18 18 18 18</td>
<td>12 12 12 12</td>
<td>12 12</td>
</tr>
<tr>
<td><strong>AXIOM (g)</strong></td>
<td>2 2</td>
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<td>2 2</td>
</tr>
</tbody>
</table>

- per 1 US gallon (unless otherwise noted)
- apply mixed product to plant foliage with a pump sprayer, mister or other suitable applicator every two weeks
- apply as a fine mist for most efficient coverage
- apply when plants are actively growing during daytime or when lights turn on
- apply product the same day it is mixed. If growing outdoors, re-apply if it rains within 30 minutes of application

### Root

<table>
<thead>
<tr>
<th>STAGE</th>
<th>Vegetative Growth</th>
<th>Reproductive Growth</th>
<th>Flush</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WEEK</strong></td>
<td>1 2 3 4</td>
<td>1 2 3 4</td>
<td>6 7 8</td>
</tr>
<tr>
<td><strong>LIGHT HOURS</strong></td>
<td>18 18 18 18</td>
<td>12 12 12 12</td>
<td>12 12</td>
</tr>
<tr>
<td><strong>ROOT (tsp)</strong></td>
<td>1 1</td>
<td>1 1</td>
<td>1 1</td>
</tr>
</tbody>
</table>

- per 1 US gallon (unless otherwise noted)
- apply ROOT solution as a root drench to the growing medium every two weeks
- use ROOT as a separate feeding from regular nutrient feedings
- use within six hours of mixing ROOT into water
- no brewing needed
- do not pH ROOT solution
- not recommended for use in recirculating or deep water culture systems
- when used in drip irrigation, proper system sanitation and maintenance is required
RESULTS DELIVERED.