ADDITIONAL EDUCATION AND TECHNICAL SUPPORT

In order to better educate growers, **APTUS EDUCATION** is an ideal way to get more insight in plant nutrition and stimulation. Growers who join the APTUS Family are more successful, more engaged with their store and more fanatical about their gardens.

Product knowledge and application are the key to success and ensure satisfied and loyal customers. If you want to experience the education and service of a world class plant nutrition company, contact us so that we can inform and train you properly.

Please schedule a meeting so that we can discuss your options.

Inquiries:  info@aptus-holland.com
**THE APTUS PHILOSOPHY**

We strive for excellence in everything we do. This applies to nutrients, client service and quality of our public image and beliefs. Our three core brand pillars are:

- **Education** - Everything we do begins with proper education. We focus on the benefit (and truth) of maximizing plant genetic potential through natural, science-based nutrition technologies. Our chief desire is to create a community of growers who understand why they achieve bigger yields with higher-quality and better nutritional value.

- **Quality** - We are constantly vigilant of the quality of our ingredients, distribution channels, and staff. Growers can be confident that their plants receive no synthetic or harmful materials from Aptus products - only natural nutrition. All ingredients are of the highest and of the purest quality.

- **Value** - The high concentrations of our nutrient formulas mean low running cost and minimal waste. Growers typically achieve better quality and higher yields for far less cost.

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**THE APTUS APPROACH**

The Aptus Approach is to provide quality uniform products and education that enhances the growers’ production and cultivation ability. The Aptus Approach is based on a preventative methodology for host (plant), pest and environmental problems. Simply put, to avoid problems before they arise.

The Aptus Approach is a natural process; it fully respects the rules of nature and is a guideline to re-establish ancient natural mechanisms: soil care and plant care. Aptus is a combination of soil bioremediation, plant stimulation and proper nutrition.

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**DIFFERENCE BETWEEN CURATIVE AND PREVENTIVE APPROACH**

**Curative**

"Bottle for every problem"

**Preventative**

"Let Nature do its job"

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**APTUS EDUCATION**

Our education focuses in plant nutrition are:

1. The right nutrition, in the right amounts, at the right time
2. Natural organic nitrogen from amino acids
3. Importance of biostimulation
4. Chelating nutrients for maximum bioavailability
5. Specific purpose and effect of each stimulant
6. Understanding your plants’ needs

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**APTUS NUTRITION TECHNOLOGY**

Aptus technology consists of three important formulations:

1. Silicic acid + Micro-elements
2. L-Amino Acids + Nutrients
3. Microlife + Stimulants
WHAT YOU’LL FIND INSIDE

NUTRITION EDUCATION... THE TRUTH

P6 Stages in plant development
Exactly what your plants need, and when they need it

P7 Biochemical sequencing of minerals in plants
How plants utilize and uptake nutrients

P9 Antagonistic action between nutrients
Not all nutrient deficiencies are caused by lack of nutrients

P11 Quality and concentration using active ingredients
L-Amino acids plus nutrients provide the building blocks for everything plants need

P47 How to mix your Aptus Nutrients
Mixing your nutrients the correct way makes sure you get the best results

P48 Urban Agriculture
Grow your own vitamins and minerals

P90 Aptus feeding schedule
Different schedules for different experience levels

P13 - P26

REGULATOR Nutrition Manager, anti-stress plant enhancer
It’s a completely new technology in plant science that will change the way you think about plant nutrition.

STARTBOOSTER Root and Growth Booster
Organic Nitrogen, humic and fulvic acids, and huge populations of beneficial bacteria to stimulate your root zone and accelerate vegetative growth.

TOPBOOSTER Bloom Booster
Stimulates plants into bloom with naturally derived bloom stimulators, vitamins, amino acids and polyphenolics to bulk dry weight.

ENZYM+ Powerful Enzymes
Stimulates soil beneficials, cleans root zone and breaks down nutrient salts into plant available elements.

NUTRISPRAY foliar Applied Liquid Fertilizer
A rapid-absorbing foliar spray that avoids the most common micronutrient deficiencies.

FUNGONE Prevents fungi, bacteria and viruses
Thoroughly cleans the leaf surfaces of your plants. Fungone is not harmful to plants and does not inhibit plant processes.

SYSTEM-CLEAN Cleaning drip systems
Prevents microbial attack and blockages in irrigation systems. Breaks down biofilm in irrigation lines.

P27 - P39

SUPER-PK Powerful PK bloom stimulator
Contains 20% Phosphorus, 25% Potassium plus bloom stimulators, amino acids and vitamins.

N-BOOST Nitrogen Booster
Contains organic Nitrogen and left-turning amino acids to stimulate plants during the vegetative or growth phase.

P-BOOST Phosphorus Booster
High levels of bioavailable Phosphorus to help the development of flowers and fruit combined with L-amino acids to build plant mass.

K-BOOST Maturation Booster
Stimulates maturation process with high levels of naturally chelated Potassium, which is an essential precursor to terpenes and essential oils.

CaMg-BOOST Bud Booster
Natural Calcium and Magnesium supplement that stimulates fruit and flower hardening.

FULVIC-BLAST Complete Micronutrient Booster
Contains low molecular weight fulvic acid combined with amino acids and microelements, which allows a direct uptake of nutrients by the plant.

HUMIC-BLAST Organic Soil Conditioner
Concentrated humic acids from the Leonardite layer combined with growth promoting amino acids, plant extracts and microbe extracts.

P41 - P44

DISLIKE Prevents harmful flying, sucking and crawling insects
Dislike contains a mixture of essential oils. These oils all have a specific function to keep harmful insects at a distance.

MICROMIX DRIP Beneficial soil borne microbe
Micromix contains a mix of micro-organisms and stimulants. The micro-organisms are selected by their functions and specially treated to remain stable.

MICROMIX SOIL Beneficial soil borne microbe
Micromix contains a mix of micro-organisms and stimulants. The micro-organisms are selected by their functions and specially treated to remain stable.

MYCOR MIX Enlarges root system/facilitates nutrient uptake
Mycor Mix contains a mixture of various species of Endomycorrhizae.

SOIL ATTACK GRANULAT Prevents problems with soil borne insects
Soil Attack Liquid contains a natural oil that comes from the seeds of a tropical tree.

SOIL ATTACK LIQUID Prevents problems with soil borne insects
Soil Attack Liquid contains a natural oil that comes from the seeds of a tropical tree.

P45 - P48

ALL-IN-ONE Nutrient Pellets
The complete 100% organic nutrition with slow-release effect, ideal for your outdoor garden. Mix in or top feed everything your plant needs for a complete plant cycle.
The way plants assimilate nutrients, the interactions between nutrients and the bioavailability of nutrients are widely misunderstood.

Modern plant nutrition systems are managed as if they were a chemistry experiment. All kinds of chemical compounds for nutrition (especially N, P, K) and protection (pesticides like fungicides and insecticides) are released in the plant’s environment. Results are expected simply because all the proper chemicals are present.

However, nature teaches us that the use of chemical-based nutrients and pesticides is not enough to solve existing plant problems. Typically, as more chemicals are added, more and more problems are created. This is because chemical-based nutrients typically create imbalance in the nutrition uptake by the plant.

Chemical fertilizers tend to decrease pH in plants, which induces plant weakness against pests and fungal diseases. Chemical fertilizers and pesticides also decrease microlife populations and species in the growth medium significantly. This results in poor mediums, poor mineralization and minimal plant stimulation.

To fix these problems, better understanding of nutrient uptake sequencing, nutrient interactions and bioavailability of nutrients is essential.

A common practice is to add a Phosphorus and Potassium (P/K) booster during all or most of the bloom phase. This can create significant problems with nutrient uptake that decrease yield and quality.

Most plants only need small amounts of Potassium during growth and early bloom. Potassium is mostly needed during the ripening and maturation stages (late bloom).

Excess of unused Potassium in the growing medium can ‘push’ away Nitrogen, Calcium, and Magnesium. These are some of the most common deficiencies. Growers can avoid these issues by respecting the natural laws and providing the right balance of nutrients at the proper development stage.
BIOCHEMICAL SEQUENCING OF NUTRIENTS

It is important to understand that plants have a defined biological sequence of nutrient uptake. This starts with Boron, which makes the root system leach sugars into the medium. These sugars feed the microbes, which transform silicates (Si) into silicic acid. Silicic acid enhances Calcium uptake, followed by Nitrogen (in amino-acid form), Magnesium, Phosphorous and Potassium.

These elements should be present in a bioavailable form to plants. If one nutrient in this sequence is not available (or less available), the uptake of all other elements in the sequence is more difficult or missed.

By providing correct nutrition in the correct sequence and amounts to your plants from the beginning, many of these problems can be avoided. It is always better to maintain a preventative methodology versus curative.

It is very important to respect this sequence in order to avoid mineral deficiencies and/or nutrient uptake problems.
ANTAGONISTIC ACTION OF NUTRIENTS

It is very important to understand how certain nutrients react with each other. If you don’t understand these interactions, you may over-supplement with a specific nutrient in attempt to correct a deficiency.

NOT ALL DEFICIENCIES ARE CAUSED BY A LACK OF NUTRIENTS!

For example, Calcium deficiency may be diagnosed due to low Calcium levels OR because there are high levels of Nitrates (NO₃). Nitrates ‘push’ Calcium away and can block absorption. So you should use organic Nitrogen instead of inorganic Nitrogen, which is high in Nitrates.

This chart shows which elements are blocked by excess of a particular nutrient.

Most nutrients usually work together; however this is not always the case. If Phosphorus is in excess it brings in more Nitrogen to the plant, unbalancing the nutrition. At the same time it also limits Zinc, Iron and Copper. Optimum nutrition is achieved by balancing the nutrients in the medium.

These problems arise often when growers attempt to create their own ‘custom’ nutrient recipe from multiple product lines from different companies. Unless a grower is highly scientific, this practice results in overdose and underdose of specific nutrients.

The plants get into wild swings of deficiencies and lockout, which results in decreased yield and quality. By using a balanced, high-quality, specifically formulated nutrition system, plants can maximize their genetic potential.

The antagonistic action of nutrients shows how overdoses of certain elements can lock out or displace another element. This list shows which elements react with each other.

Understanding nutrient antagonism makes diagnosing deficiencies and excess more difficult, but ultimately more accurate.
WHY AMINO ACIDS ARE CRITICAL TO PLANT DEVELOPMENT

Amino acids are organic compounds and are the building blocks of proteins. Proteins are important nutrients for crops for managing metabolism, structure, transport, communication and growth regulation on a cellular level.

Amino acids provide peptides and organic nitrogen and are able to organically chelate nutrients and induce plant stimulation. Research shows interactions in biostimulation activities, enzymatic functions, pest/pathogen resistance, growth/bloom and maturation.

Nature only recognizes left turning amino acids (L-amino acids), as they are hydrolyzed in the same way nature does: by enzymatic hydrolyzation. Left turning amino acids in various combinations have different roles to play in plant development. Their role can be nutritive and/or a precursor for biochemical plant processes and plant stimulation.

NUTRIENTS + L-AMINO ACIDS = NUTRITION MOVEMENT

Combining bioavailable L-amino acids with nutrients (N, P, K, Ca, Fe, Mg, Mn and Zn) helps transport nutrients throughout plant tissue. This helps the plant to better absorb nutrients, enabling an optimal nutrient uptake nutrients throughout plant tissue.
WHY USE REGULATOR?

- Resistance against abiotic (environmental: temperature, wind, drought).
- Resistance against biotic stress (pests and pathogens).
- Improves uptake, absorption and utilization of nutrients.
- Stronger cell structure and epidermis layer creating stronger plants and thicker stems (increases dry weight).
- Reduces and controls the space between internodes caused by temperature stress and unbalanced nutrition.
- Increases resistance against salinity (nutrient salt buildup).
- Reduces transpiration (loss of moisture from the leaves).

REGULATOR CONTAINS

- Silicic Acid (Si) – Nutrient transporter
- Boron (B) – A precursor to enhance Calcium uptake and fibre production
- Molybdenum (Mo) – Moves Nitrogen from lower to upper leaves

EDUCATION

Boron (B) is the basis for all other nutrient usage. Particularly, it enhances Calcium (Ca) uptake and stimulates the production of plant fibres (better quality, more dry matter). Molybdenum (Mo) is a key part in the activity of the nitrogenase enzyme. When Nitrogen (N) is missing, plants look for Molybdenum in order to stimulate nitrogenase activity, which helps move Nitrogen from old leaves to new leafy growth.

HOW REGULATOR WORKS

- Improves bioavailability of nutrients based on plant need (regulates uptake of nutrients).
- Strengthens plants with better cell structure and improves plants natural disease resistance.
- Increases resistance against abiotic (environmental) stress and biotic (pest, pathogens and plagues) stress.

TIPS FROM SUCCESSFUL GROWERS

- Always mix Regulator first in your reservoir filled with clean water. Otherwise, other nutrients may not be readily available for rapid plant utilisation.
- Regulator makes plants more compact. If plants grow too high or too fast, a higher dosage of Regulator slows down plants growth in length (the plant becomes wider with more branches).
- Often helps correct nutrient deficiencies by making existing nutrients more bioavailable.
- Use to help control the distance between the branches (internodes).

AVAILABLE PACK SIZES

100 ml, 250 ml, 500 ml, 1 L, 5 L

REGULATOR NUTRITION MANAGER AND ANTI-STRESS PLANT ENHANCER
WHY USE STARTBOOSTER?

- Powerful root and growth stimulator (more roots and plant growth)
- Improved development of stems, root system and plant tissue (improved vegetative growth)
- Improves microlife populations and strength
- Improves cellular development of stems (up to 2x thicker)

STARTBOOSTER CONTAINS

- Organic Nitrogen chelated with L-amino acids
- Microlife biomass from controlled fermentation of selected strains (specific beneficials)
- Humic acid from the Leonardite layer
- High-grade Fulvic acid

HOW STARTBOOSTER WORKS

- Organic Nitrogen provided by amino acids increases vegetative growth without risk of burning or overdose.
- L-amino acids provide growth, biostimulation and boost bacteria populations.
- Humic Acid improves water retention, root area conditioning, and cation/anion exchange.
- Microlife biomass breaks down nutrients and enhances antagonistic action against pathogens.

HOW TO USE STARTBOOSTER

Use Startbooster as additive next to NPK fertilizers. On pre fertilized soil Startbooster can be used without additional growth fertilizers. When using Startbooster the pre growth phase can be shortened.

Use Startbooster during the pre growth phase and the first week of blossom. Use 2.5 ml per 10 L water. Add Startbooster after adding the NPK nutrients and after measuring EC.

Startbooster is a 100% organic product. Be careful with the use of organic product in drip irrigation systems. In such systems, organic products increase the risk of blockages. Therefore, always use System-Clean when using Startbooster in drip irrigation systems.

TIPS FROM SUCCESSFUL GROWERS

- Use a 1:1000 dilution to feed new clones (4 ml per gallon).
- During transplanting, dip the roots of the plants in a 1:100 mixture (30 - 40 ml per gallon).
- Do not keep Startbooster in your reservoir for more than 2-3 days in order to avoid organic biofilm buildup and blockage of irrigation drip lines.

AVAILABLE PACK SIZES

100 ml, 250 ml, 500 ml, 1 L, 5 L
Why Use Topbooster?

- Improves transition between different stages in plant physiology (better plant development)
- Improves quality and end product (flavour, appearance and quality)
- Improves yield by stimulating more bud sites (greater quantity of flowers and buds)
- Improves flowers by increasing fibres, resins and sugars (improved end product)

Topbooster may be used at a slightly higher dose for even better results. Dosage can be increased during the cycle, from 20 ml up to 40 ml per 25 gallons.

Do not keep Topbooster in your reservoir for more than 2-3 days in order to avoid biofilm buildup and blockage of irrigation drip lines.

Topbooster contains:

- L-amino acids
- Polysaccharides (sugars)
- Trace elements: Boron (B), Iron (Fe), Molybdenum (Mo)
- Bloom promoting natural plant stimulants
- Vitamin complexes produced by natural fermentation

How Topbooster Works

- L-amino acids aid in floral development and maturation
- Potassium (K), Iron (Fe) and other micronutrients assist floral development
- Polysaccharides (sugars) stimulate nutrient uptake and microlife populations
- Vitamins promotes hormone production
  - Gibberellins for shooting
  - Cytokinins for cellular division

How To Use Topbooster

Topbooster contains a synergetic cocktail of active ingredients that stimulate the complete flowering process. We therefore advise to use Topbooster almost during the complete bloom phase. Use Topbooster as an additive next to a base NPK fertilizer. Use 2 ml per 10 L (1:5000) from the second week of flowering until the last week.

Topbooster is a 100% organic product. Be careful with the use of organic product in drip irrigation systems. In such systems, organic product increase the risk of blockages. Therefore, always use System-Clean when using Topbooster in drip irrigation systems.

Available Pack Sizes

- 100 ml
- 250 ml
- 500 ml
- 1 L
- 5 L

Topbooster may be used at a slightly higher dose for even better results. Dosage can be increased during the cycle, from 20 ml up to 40 ml per 25 gallons.

Do not keep Topbooster in your reservoir for more than 2-3 days in order to avoid biofilm buildup and blockage of irrigation drip lines.
**ENZYM+**

**POWERFUL ENZYMES**

Enzym+ is a powerful blend of enzymes that have different functions. Enzymes keep the root surface clean, remove dead organic matter and root residues, transform accumulated or saturated salts into usable plant nutrients and stabilize EC in the grow medium. This improves the plant’s natural ability to absorb more nutrients while avoiding nutrient build-up in the medium that can cause lock up and pathogen problems in the root system.

**WHY USE ENZYM+?**

- Grow mediums can be used longer and for multiple cycles (less medium replacement)
- Stabilizes EC in mediums and prevents salts accumulation and excess of nutrient salts (decreases nutrient lock up)
- Keeps root system and medium clean (improves absorption, reduces residues)

**HOW TO USE ENZYM+**

At each watering: 2.5 ml per 10 L of water (1:4000).
Once a week: 5 ml per 10 L of water (1:2000).
Add Enzym+ as last in the nutrient solution preferably just before watering.

**WHY USE?**

- Grow mediums can be used longer and for multiple cycles (less medium replacement)
- Stabilizes EC in mediums and prevents salts accumulation and excess of nutrient salts (decreases nutrient lock up)
- Keeps root system and medium clean (improves absorption, reduces residues)

**HOW ENZYM+ WORKS**

- Cellulase (plant matter) forms around the roots, which inhibits nutrient absorption. The cellulase in Enzym+ breaks down cellulose and keeps the roots clean.
- Beta-glucanase transforms precipitated nutrient salts into plant available nutrients.
- Manganese (Mn) stimulates microlife and stabilizes the solution.

**TIPS FROM SUCCESSFUL GROWERS**

- Reuse your grow medium for multiple cycles! Flush medium between cycles to clean out dead plant material and nutrient salts.
- Do not leave a reservoir with nutrients and Enzym+ for more than 2 days to avoid nutrient degradation. Ideally, Enzym+ is added last to the nutrient solution, just before feeding.
- Enzymes start to work instantly, especially at greater than 20° Celsius.
- Use Enzym+ once a week to hydro and soil to keep the root area clean.

**AVAILABLE PACK SIZES**

- 100 ml, 250 ml, 1 L, 5 L

**ENZYM+ CONTAINS**

- Cellulase and beta-glucanase complexes
- Blend of sugar complexes (polysaccharides)
- Manganese (Mn)
**WHY USE NUTRISPRAY?**

- Leaves an active layer containing microelements on leaf surface
- Layer fully biodegrades within 10-15 days
- Fast-acting nutrient absorption
- Quickly treat common deficiencies

**HOW NUTRISPRAY WORKS**

- Horse chestnut extract binds to the microelements to make them available
- Creates a protective shield so nutrients stay on leaves up to two weeks
- Thins vascular fluid to transport nutrients faster

**TIPS FROM SUCCESSFUL GROWERS**

- Faster correction than root feeding if any deficiencies appear
- Spray mother plants one week before cutting clones for healthier cuttings
- Spray cuttings once per week to provide a protective shield and available nutrients
- Always spray with lights off to avoid burning. Leave lights off for 20-30 minutes after spraying.

**NUTRISPRAY CONTAINS**

- Organic surfactant
- Horse chestnut extract
- Microelements:
  - Manganese (Mn)
  - Sulphur (S)
  - Zinc (Zn)
  - Iron (Fe)

**NUTRISPRAY**

**FOLIAR APPLIED LIQUID FERTILIZER**

NutriSpray is a blend of natural surfactants, stimulators and microelements, to be used as a foliar fertilizer. It provides essential microelements during the complete growing cycle and leaves a natural coating on the leaf to protect and to feed. NutriSpray can be used for general nutrition or for deficiency correction.

**AVAILABLE PACK SIZES**

- 50 ml
- 150 ml

**HOW TO USE NUTRISPRAY**

Do not use full strength, always dilute with water.

- Mix 2 ml per 1 L of water and spray on the entire leaf surface.
- Indoor: Spray during weeks 1, 3, 5 of bloom for general nutrition.
- Outdoor: Spray 1 week after planting, then once a month until harvest.
FUNGONE PREVENTS FUNGI, BACTERIA AND VIRUSES

Fungone is a protected preventive foliar spray that decreases pathogen problems on leaves while increasing the plant’s resistance to future attacks. It helps prevent fungal, bacterial and viral problems by clearing the leaf and creating conditions that do not favor pathogen development. It prevents future infections by producing a preventive shield over leaves. It is extremely useful for outdoor applications.

WHY USE FUNGONE?
• Prevent infections from viral, fungal and bacterial infections by cleaning plant surfaces
• Creates a protective shield on the plant leaf surface
• Non-toxic to plants and animals
• Prevents bud rot and mildew

HOW TO USE FUNGONE
Fungone is a ready-to-use Aptus product. It must be sprayed directly on the plant. For larger volumes, Fungone concentrate can be used because 1 L is enough to make 5 litres ready-to-use spray solution. Spray Fungone ready to use or 5 times diluted Fungone concentrate directly on the plant.

Always ensure that the lights are off during spraying and that proper protection gear is used consisting of a mask and goggles. Fungone is not toxic and causes no residue in the plant.

WHEN TO USE FUNGONE
Fungone uses atomic oxygen (O₃) to oxidize bacteria and fungi. Pathogens are unable to develop resistance to oxidation. Oxidation by O₃ occurs naturally in nature and artificially in some greenhouses to control bacteria and pests.

The remaining elements of the spray produce natural oxygen and clean water. Fungone contains a food grade adjuvant that helps it stick and spread evenly on the plant surface for a long-lasting effect.

TIPS FROM SUCCESSFUL GROWERS
• Spray Fungone when the lights are off. Leaves burn quickly when sprayed with the lights on. The droplets of the spray act as prisms, amplifying the light intensity.
• Fungone is ready-to-use and can be applied directly as a foliar treatment or diluted with water for treating sensitive plants (1 part Fungone to 4 parts pure water). If diluted, use the mixture immediately.
• Use weekly as a preventative measure up to the last week before harvest.

AVAILABLE PACK SIZES
Concentrate & Ready-To-Use • 1 L, 5 L

FUNGONE CONTAINS
• 3% food grade H₂O₂
• Ag (colloidal silver)
• Food grade adjuvant

FUNGONE WORKS
Fungone uses atomic oxygen (O₃) to oxidize bacteria and fungi. Pathogens are unable to develop resistance to oxidation. Oxidation by O₃ occurs naturally in nature and artificially in some greenhouses to control bacteria and pests.

The remaining elements of the spray produce natural oxygen and clean water. Fungone contains a food grade adjuvant that helps it stick and spread evenly on the plant surface for a long-lasting effect.
**SYSTEM-CLEAN**  
CLEANING DRIIP SYSTEMS

System-Clean is a powerful oxidizer that prevents microbial attacks, line blockages and nutrient build up in irrigation systems. A clean irrigation system improves growth and development of plants especially in the root system by allowing more oxygen and nutrients to reach the plant without affecting the pH. Unabsorbed nutrients increase biofilm in the irrigation system. These remaining nutrients acidity (lower pH) the medium increasing the chance of microbial attack by providing nutrition for pathogens.

**WHY USE SYSTEM-CLEAN?**
- Prevents loss of nutrients and oxygen in irrigation systems [improves efficiency of irrigation system and plant absorption]
- Removes build up of biofilm in irrigation systems [prevents nutrient build up]
- Adds extra oxygen to the root area [improves nutrient solution dissolved oxygen]
- Removes source of pathogens

**HOW TO USE SYSTEM-CLEAN**
Add System-Clean to the nutrient tank, preferably just before each watering at 2,5 ml System-Clean per 10 L of water.

Add System-Clean last to the nutrient tank after adjusting the pH value. System-Clean will last for maximum three days in the nutrient solution.

If your nutrient mix stands for more than three days, mix System-Clean to the entire amount of water in the nutrient tank to help minimize biofilm and residue buildup.

**SYSTEM-CLEAN CONTAINS**
- 8% food grade H₂O₂
- Ag (colloidal silver)

**HOW SYSTEM-CLEAN WORKS**
System-Clean helps maintain a healthy irrigation system by removing biofilm and keeping high levels of oxygen in the nutrient solution.

**AVAILABLE PACK SIZES**
- 1 L, 5 L

**TIPS FROM SUCCESSFUL GROWERS**
- Add System-Clean just before watering to your nutrient mix. If possible do not leave your nutrient mix with System-Clean in it for too long (2-3 days max) because of possible reactions with organic products.
- May be used alone in water for a system flush between cycles.
Super-PK is a superior organo-mineral bloom stimulator. It is 20% Phosphorus (P) and 25% Potassium (K) combined with amino acids making it ideal for bloom stimulation.

**WHY USE SUPER-PK?**
- Superior organo-mineral product
- Highly concentrated
- Contains L-amino acids

**HOW TO USE SUPER-PK**
Use Super-PK during the blossom phase. Mix 2.5-5 ml Super-PK per 10 L of water.
Shake before use. Ideal for use in hydroponics systems. Fully water-soluble.

**SUPER-PK CONTAINS**
- 20% Phosphorus (P)
- 25% Potassium (K)
- Bloom stimulating amino acids
- Bloom stimulating vitamins

**HOW SUPER-PK WORKS**
- High levels of Phosphorous and Potassium stimulates blooming and flowering plants
- Improves firmness and compact structure of end product

**TIPS FROM SUCCESSFUL GROWERS**
- With sensitive plants, Super-PK should only be used from the 4th or 5th week of the blossom phase.
- Use half dosage at the beginning of flowering to initiate rapid bloom development.
- Super-PK has a pH of 8.5 - 9 and can be used to raise the pH of a solution.

**AVAILABLE PACK SIZES**
150 ml, 500 ml, 1 L, 5 L
Plants have a large demand for Nitrogen during the vegetative or growth phase. N-Boost contains organic Nitrogen and left-turning amino acids. N-Boost is fully water-soluble and leaves no residues. N-Boost is an organic product that stands out for the bioavailability of the growth-promoting substances. N-Boost has a powerful stimulating effect on the growth process and it also stimulates the soil. N-Boost gives you optimal support during the growth without risks of clogging.

WHY USE N-BOOST?
- Fully organic growth stimulator
- Improves growth productivity
- Improves sugar content
- Provides a compact and solid growth
- Improves resistance to fruit damage

HOW TO USE N-BOOST
Use N-Boost throughout the growth phase. Mix 3-5 ml N-Boost per 10 L of water. Shake before use. Fully water-soluble. Leaves no residue in irrigation systems.

HOW N-BOOST WORKS
- Organic Nitrogen provided by amino acids increases vegetative growth without risk of burning or overdose.
- L-amino acids provide growth, biostimulation and boost bacteria populations.

N-BOOST CONTAINS
- Organic Nitrogen (N)
- L-amino acids

TIPS FROM SUCCESSFUL GROWERS
- Replace Startbooster as growth and root stimulator by N-Boost in drip systems to prevent clogging.
- N-Boost is fully water-soluble and does not leave any residue in drip systems.
- Do not use N-Boost in combination with Startbooster (in case Nitrogen level in nutrition schedule is too high).
**P-BOOST**

**PHOSPHORUS BOOSTER**

P-Boost is a phosphorus booster that is 100% soluble in water and will not produce residues. P-Boost contains organic acids and can also help to adjust pH-down for water in your reservoir. P-Boost is an organo-mineral product that improves blooming processes and stimulates the production of proteins, plant hormones and vitamins.

### WHY USE P-BOOST?

- Provides a large amount of organic phosphorus (P) in the generative and bloom phase
- 100% water soluble and organic leaving no residue
- Combines organic nitrogen (N) and phosphorus (P) with L-amino acids
- High bioavailability
- Powerful stimulating effect on the blooming process

### HOW TO USE P-BOOST

Use P-Boost from budding until the sixth week of flowering. Use P-Boost 3-5 ml per 10 L of water. Shake before use. Fully water-soluble. Leaves no residue in the irrigation system.

### HOW P-BOOST WORKS

- Stimulates the production of hormones, vitamins and proteins in the plant
- Stimulates bud formation, fructification and bud development
- Improves photosynthesis process
- Nutrients are organically chelated using L-amino acids

### TIPS FROM SUCCESSFUL GROWERS

- Increase P-Boost dosages during the cycle for even better results (see extreme schedule).
- P-Boost has acidifying characteristics and can be used as a pH down solution.

### P-BOOST CONTAINS

- Organic Nitrogen (N)
- High concentrations of Phosphorus (P)
- L-amino acids
**K-BOOST**
**MATURATION BOOSTER**

K-Boost is a maturation booster that contains L-amino acids combined with Potassium (K) and Sulphur Trioxide (SO₃). It stimulates the maturation process, improves yield and end quality.

**WHY USE K-BOOST?**
- Stimulates fruit and bud maturation
- Improves crop quality
- 100% water soluble and organic leaving no residue
- High bioavailability
- Firm end product

**HOW TO USE K-BOOST**
Use K-Boost from 5th week until the 7th week of blossom. Use 3-5 ml K-Boost per 10 L of water. Shake before use. Fully water-soluble. Does not leave residues in the irrigation system.

**K-BOOST CONTAINS**
- Organic Nitrogen (N)
- Potassium (K)
- Sulphur Trioxide (SO₃)
- L-amino acids

**HOW K-BOOST WORKS**
- Organic Nitrogen combined with Potassium and L-amino acids stimulates plant maturation.
- Potassium improves the water management in plants (osmoregulation). When Potassium is deficient, stomata will not work properly and the plant loses water.
- Potassium also improves starch and protein synthesis.
- Potassium regulates opening of the stomata and enzyme activity.
- Sulphur is used in the maturation process and increase’s weight.
- Nutrients are organically chelated using L-amino acids.

**TIPS FROM SUCCESSFUL GROWERS**
- Use K-Boost during the last 4 weeks for a compact and firm end product.
- Use in combination with CaMg-Boost to bulk up weight and firmness and to help avoid antagonistic action between Potassium (K) and Magnesium (Mg).

**AVAILABLE PACK SIZES**
150 ml, 500 ml, 1 L, 5 L
CaMg-BOOST

BUD BOOSTER

CaMg-Boost is an organo-mineral plant booster that prevents Calcium (Ca) and Magnesium (Mg) deficiencies while stimulating powerful fruit set and development. CaMg-Boost is the key to firm and quality end product.

WHY USE CaMg-BOOST?

- Provides organic Nitrogen combined with Calcium and Magnesium and L-amino acids that stimulate plant development.
- 100% water soluble and leaves no residue.
- Combines Calcium (Ca) and Magnesium (Mg) with L-amino acids to eliminate deficiencies.
- High bioavailability.
- Improves structure and firmness of the flower and fruit.
- Provides the extra boost plants need during certain plant development phases.

HOW TO USE CaMg-BOOST

Use CaMg-Boost once a week from the third week until the fifth week of blooming. When adding CaMg-Boost, do not use additional boosters with Phosphorus in it (PK 13/14, P-Boost, Super-PK, etc.).

Use 5 ml CaMg-Boost per 10 L of water. Shake before use. Fully water-soluble. Leaves no residue in the irrigation system.

TIPS FROM SUCCESSFUL GROWERS

- Use CaMg-Boost in combination with P-Boost & K-Boost in the last weeks to get maximum weight.
- Pay attention when you mix P-Boost and CaMg-Boost as they can react together. Always add one, dilute and mix then the other. In case you use a lot of phosphorus based products, then take care when adding CaMg-Boost as Phosphorus and Calcium mixed together in high concentrations may cause deposits and residues.

HOW CaMg-BOOST WORKS

- Aids in plant structure and photosynthesis.
- Improves structure and firmness of fruits and flowers.
- Stimulates fruit set and floral development.
- Activates enzymatic activity.
- Higher levels of Ca and Mg help raise internal plant pH to resist fungal attacks.

AVAILABLE PACK SIZES

150 ml, 500 ml, 1 L, 5 L

CaMg-BOOST CONTAINS

- Organic Nitrogen (N)
- Calcium (Ca)
- Magnesium (Mg)
- L-amino acids
**FULVIC-BLAST**
**COMPLETE MICROELEMENT BOOSTER**

Fulvic-Blast is a complete microelement booster used to detoxify plants and combat microelement deficiencies. It is directly absorbed into the plant and improves the absorption of existing microelements. The mixture of low molecular Fulvic acid, plant stimulants and microelements enhances the crop and its production.

**WHY USE **FULVIC-BLAST?

- Stops microelement deficiencies
- Prevent nutritional imbalances
- Breaks down nutrient salts and helps remove heavy metals
- Fully organic microelement booster
- Very high chelating capacity

**HOW TO USE **FULVIC-BLAST

Use Fulvic-Blast preferably once a week throughout the cycle or at uncertain deficiencies. Use 3 ml Fulvic-Blast per 10 L water (1:3333).

Shake well before use. Fully water-soluble. Leaves no residues.

**FULVIC-BLAST CONTAINS**

- High-grade low molecular Fulvic acid
- Plant stimulants
- L-amino acids
- Microelements in Fulvic-Blast
  - Iron (Fe)
  - Manganese (Mn)
  - Magnesium (Mg)
  - Zinc (Zn)
  - Sulphur (S)
  - Boron (B)
  - Cobalt (Co)
  - Sulphur (S)
  - Sodium (Na)
  - Nickel (Ni)
  - Vanadium (V)
  - Copper (Cu)
  - Molybdenum (Mo)

**HOW FULVIC-BLAST WORKS**

- Fulvic acid acts as a natural mineral chelator
- Stimulates the conversion of carbohydrates into sugar
- Balanced levels of essential microelements prevent deficiencies

**TIPS FROM SUCCESSFUL GROWERS**

- Using Fulvic-Blast once a week prevents shortages, nutritional imbalance and mineral deficiencies during the plant life cycle.
HUMIC-BLAST ORGANIC SOIL CONDITIONER

Humic-Blast is an organic soil conditioner that improves plants ability to absorb nutrients, balances the charge in mediums creating airy soil structure and improves water retention. Humic-Blast neutralizes build up of acids and salts in the medium freeing locked up nutrients. Humic-Blast is rich in Carbon and Potassium humates and is supplemented with natural plant hormones and microelements.

WHY USE HUMIC-BLAST?
- Boosts the development of young plants
- Stimulates natural hormone production
- Organic soil conditioner
- Improves water retention
- Improves plant nutrient absorption capacity
- Detoxifying effect for heavy metals (heavy metals, Chlorine compounds, Aluminum and Sodium)
- Allows safe medium reuse for multiple cycles

HOW HUMIC-BLAST WORKS
- Humic acid stores nutrients until the plant is ready to absorb them from the medium.
- Creates good soil structure by increasing water retention, balancing cation exchange capacity, breaking down salts and restoring soil structure.
- Regulates the nutrient salts in the medium.
- Humic acid in the medium stimulates and enhances microlife activity.

HOW TO USE HUMIC-BLAST
Humic-Blast is used in the last two to three waterings. Mix 3 ml of Humic-Blast per 10 L of water and for the last watering, mix 6 ml of Humic-Blast per 10 L of water.

Shake well before use.

AVAILABLE PACK SIZES
1 L, 5 L

WHY USE HUMIC-BLAST CONTAINS
- Humic acid from the Leonardite layer
- Microlife biomass from controlled fermentation of selected strains (specific beneficials)
- Growth promoting L-amino acids
- Specific plant extracts

TIPS FROM SUCCESSFUL GROWERS
- Use to condition new growing medium before transplanting.
- Add to the last two to three feedings, or if not possible, flush the final week with clean water and Humic-Blast. This prepares the medium or reuse in the next cycle.

HUMIC-BLAST AVAILABLE PACK SIZES
1 L, 5 L

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**Dislike**

**Prevents Harmful Flying, Sucking and Crawling Insects**

Dislike prevents problems with flying, crawling and sucking insects that nestle on or around the plant. The preventive use of Dislike prevents problems with spider mites, thrips and aphids. Dislike contains a proprietary blend of essential oils that keep insects at a distance. Dislike is a 100% organic product.

**Why Use Dislike?**
- No more problems with flying, crawling and sucking insects
- 100% organic and not harmful for the plant

**How to Use Dislike**

Mix 4-8 ml per 1 L of (hand-warm) water. Spray every 7 days thoroughly on the plant surface, top and bottom.

Wear a mask and eye protection when spraying Dislike. Shake before use.

**Tips from Successful Growers**
- Dip young plants or cuttings in a mix of Dislike to dispose of harmful insects (2 ml per 1 L)
- Spray Dislike always with the lights switched off. Spraying with the lights switched on leads to burn spots on leaves.

**Dislike Contains**

Dislike contains a mixture of essential oils and natural emulsifiers.

**How Dislike Works**

Each oil in Dislike has a specific function to keep insects at a distance. The combination of 5 oils in 1 product guarantees a broad mode of action. Dislike is the only product on the market with such a powerful formula. In addition to repelling many insects, the oil blend can coat and suffocate existing insects and their eggs.

**Soil Attack Liquid**

**Prevents Problems with Soil Borne Insects**

Soil Attack Liquid prevents problems with soil borne insects that nestle in the substrate and harm the root system. Soil Attack Liquid is a 100% organic product that is not harmful for your plant or natural predators.

**Why Use Soil Attack?**
- Prevents problems with soil borne insects
- 100% organic and not harmful for plant or natural predators

**How to Use Soil Attack**

Apply 2,5 - 5 ml of Soil Attack Liquid per 10 L of water after planting to prevent problems during the growing cycle. Pour or combine with nutrients through irrigation system. Soil Attack Liquid immediately dissolves in water so no surfactant is needed.

**How Soil Attack Works**

The oil blocks certain receptors in soil born insects that triggers their feeding and reproduction mechanisms, causing them to starve. In addition, the presence of the natural oil in the medium discourages egg laying.

**Soil Attack Contains**

Soil Attack Liquid contains a specially formulated natural oil that comes from the seeds of a tropical tree. This natural oil has been used for many years for different medical and botanical applications. Soil Attack Liquid contains the purest, highly concentrated liquid form of this oil. Soil Attack Liquid is a pure product that is not diluted with water.

**Tips from Successful Growers**
- The preventive application of Soil Attack keeps harmful soil borne insects away during the complete growing cycle.
- Add a dose of Soil Attack during transplanting or any soil conditioning step.
During the production process of growing substrates, all microlife is destroyed/stabilized so that no harmful elements remain. The problem with this approach is that also the beneficial elements are destroyed. This makes the substrate more susceptible to pests and diseases. It is important to have a rich beneficial microlife in the substrate to prevent problems and to optimize growing conditions. Adding Micromix Soil creates a rich beneficial soil life that offers optimal growing conditions in the substrate.

**WHY USE MICROMIX SOIL?**
- Protects the root system from harmful fungi and bacteria
- Stimulates rooting and growth processes
- 100% organic

**MICROMIX SOIL WORKS**
- Enzymes produced by beneficial bacteria decompose accumulated nutrient salts.
- Healthy populations of beneficial microorganisms protect root systems from harmful microorganisms.

**MICROMIX SOIL CONTAINS**
Micromix Soil contains a mix of microorganisms and stimulants. The microorganisms are selected by their functions and specially treated to remain stable. To extend the storage life of the mix, special carriers have been used to protect and feed the microorganisms. This guarantees that the microorganisms have a stable and powerful effect directly after application.

**HOW TO USE MICROMIX SOIL**
Mix Micromix Soil through the substrate or put 1 ml per plant in the plant hole before planting. Apply Micromix Soil once when transplanting.

**TIPS FROM SUCCESSFUL GROWERS**
- Use Micromix Soil during the growth phase to increase young plant survival and health.
- Micromix Soil can be used on all types of substrates.

**MYCOR MIX**
Mycor Mix enlarges the root system and facilitates the uptake of nutrients. Mycor Mix contains a mixture of various mycorrhizae species.

**WHY USE MYCOR MIX?**
- Enlarges the root system up to 700 times!
- Improves uptake of nutrients (especially Phosphorus)
- 100% organic

**MYCOR MIX CONTAINS**
Mycor Mix contains a mixture of various species of endomycorrhizae. There are more types of mycorrhizae besides endomycorrhizae, but only endomycorrhizae work for your crop. The mycorrhizae are fixed on a vegetal carrier that feeds and protects the fungi.

**HOW MYCOR MIX WORKS**
Mycorrhizae are beneficial fungi that build colonies on the root system. The fine hyphae threads pass nutrients to the root systems and actually enlarge the surface from which plants can absorb nutrients.

The use of Mycor Mix gives visible results during the flowering phase because mycorrhizae increase the uptake of Phosphorus. An increased uptake of Phosphorus will result in bigger flowers and increased yield.

**HOW TO USE MYCOR MIX**
Add 1 g of Mycor Mix once before planting in the plant hole. Mycor Mix has then direct access to the root system.

**AVAILABLE PACK SIZES**
- 100 ml
- 100 gram

**TIPS FROM SUCCESSFUL GROWERS**
- Inoculate new medium with Mycor Mix during transplant, especially near the established roots of your plants.
- De-chlorinate tap water before using in growing medium or you will destroy established microorganism populations.
All-In-One is a time-released 100% organic pellet fertilizer that provides complete nutrition for plant development for up to 3 months. Each application lasts 2-3 months and can be reapplied for longer cycles. It is specially formulated with macronutrients and micronutrients, amino acids and bio-stimulants to enhance plant development over a period time. All-In-One can be applied during transplanting or soil preparation directly into the soil or as a top dressing to extend the growing cycle.

**WHY USE ALL-IN-ONE?**

- Simple and complete 100% organic plant nutrition
- Nothing else but water is required
- Time-release complete granular mix-in or top dressing fertilizer
- Complete formulation reduces fertilizer needs
- Easy to use – application is once every 2 to 3 months
- Perfect for remote locations and long lasting crop cycles
- Helps condition soil, improves plant development and stimulates microflora
- Long shelf-life if properly stored

**HOW TO USE ALL-IN-ONE**

Apply only once for complete nutrition for a 3 month crop cycle. Either mix into the medium prior to planting or scatter around the plant and water in.

**For short cultivation (3 months)**

Use 50-100 g per plant at planting (mix in or top-dress).

**For long cultivation (6 months)**

Use 50-100 g per plant at planting (mix in or top-dress), then apply an additional dose after 2 months (top-dress, water in).

Store in a cool, dry place. Can last up to 3 years in proper storage.

**AVAILABLE PACK SIZES**

- 100 ml
- 1 L
- 10 L

**TIPS FROM SUCCESSFUL GROWERS**

- Use more pellets for sandy soil (200 g per plant) than for clay or heavy soil (100 g per plant) per cycle (2-3 months).
- If your cycle is longer than 3 months, apply a second treatment as topdressing and water from the top, or mix pellets into the top 2 inches of soil.
- In case of deficiencies, add more pellets as topdressing and water from the top.
- Mix into the ground during soil preparation or simply place at the bottom of each planting hole.
- For better effect outdoors, use with Regulator, Startbooster and NutriSpray.
- For better effect indoor in pots, use with all Boosters (Start, Top, P, K, Ca/Mg).

**ALL-IN-ONE CONTAINS**

- Compounded NPK fertilizer with Magnesium (Mg) and Sulphur (S)
- Organically chelated microelements such as Boron (B), Iron (Fe), Manganese (Mn), Zinc (Zn)
- L-amino acids
HOW to mix your aptus nutrients

STEP 1
Fill your reservoir with clean, fresh water

STEP 2
Add Regulator and mix for 5 minutes

STEP 3
Add N/P/K/ CaMg Boosters

STEP 4
Check EC/PPM levels

STEP 5
Add base NPK fertilizer until desired EC and mix

STEP 6
Add Startbooster or Topbooster one at a time and mix each

STEP 7
Check the pH and adjust to 5.8 (hydro) or 6.2 (soil)

STEP 8
Use feed water within 2-3 days if possible

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WHY URBAN AGRICULTURE?

Nothing is more important than the quality and nutrition of our food supply. Modern society is disconnected from the production of the food we consume. Farm modernization, soil mineral depletion, government regulation, urban sprawl and poor understanding of plant health are destroying the fabric of what allows us to live.

Urban Agriculture is a worldwide movement to bring the production of food closer to the point of consumption and give the power of true health back to the average person.

BENEFITS OF URBAN AGRICULTURE

- grow your own vitamins and minerals
- higher nutritional value of produce
- grow your food the way nature grows
- longer shelf life, less waste
- healthier plants, healthier people
- with proper education anyone can participate
- know exactly what goes into the food that goes into you

ATTENTION: If you leave the solution for more than 3 days, biofilm may build up and potentially clog drip lines in hydro systems.

Aptus is at the forefront of the Urban Agriculture movement. We create and supply all-natural plant nutrition products that allow you to grow your own food the way nature intended.
### Nutrient Schedule - Basic

<table>
<thead>
<tr>
<th>Stage</th>
<th>Water</th>
<th>Regulator</th>
<th>P-Boost</th>
<th>CaMg-Boost</th>
<th>K-Boost</th>
<th>EC-check</th>
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<tr>
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<td>1,5 ml/10 L</td>
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**If necessary:**
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- Enzym: 2,5 ml/10 L 5 ml/10 L 5 ml/10 L 5 ml/10 L 10 ml/10 L
- System-Clean: 2,5 ml/10 L 5 ml/10 L 5 ml/10 L 5 ml/10 L 5 ml/10 L
- NutriSpray: 2 ml/L 2 ml/L 2 ml/L 2 ml/L 2 ml/L
- Soil Attack Liquid: 2,5 ml/10 L 5 ml/10 L 5 ml/10 L 5 ml/10 L 5 ml/10 L
- Humic-Blast: 2,5 ml/10 L 5 ml/10 L 5 ml/10 L 5 ml/10 L 5 ml/10 L

*When recycling medium, in last two waterings*

### Nutrient Schedule - Pro

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*When recycling medium, in last two waterings*

### Nutrient Schedule - Extreme

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- Humic-Blast: 2,5 ml/10 L 5 ml/10 L 5 ml/10 L 5 ml/10 L 5 ml/10 L

*When recycling medium, in last two waterings*

### Nutrient Schedules

- **Highly Concentrated Formulas**
- **100% Active Ingredients**
- **Fully Organic and Organo-Mineral**
- **No Artificial or Synthetic Ingredients**
- **Built to Mimic Natural Biologic Processes**
- **Results Like You’ve Never Seen**

For all Feeding Schedules: Development stages and dosages depend on crop and growing methods.