



High-performance nutrition for high-value crops.



# APTUS

Repeatable. Predictable. Reliable.



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**LESS BOTTLES.  
MORE STABILITY.**



## THE CLEAN PROGRAM

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This program is the easiest, most concentrated, low cost program on the market. The pH stability is so reliable you can mix and set your reservoir on a given day and it will read exactly the same (+/- 0.05) seven days later with no adjustment in between.

**PREMIUM QUALITY.  
SUPERIOR FLAVOUR.**



## THE PREMIUM PROGRAM

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This program is the absolute gold standard of quality, flavour, oil production and shelf life. This is the program for the grower looking to produce the absolute best flower they can or any extraction artist looking to increase the quality, colour and yield of their extracts.



## FASILITOR

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FASILITOR is a patented formula that increases the uptake of all other nutrients leading to an increase in yield and quality while also protecting the plant against pests, pathogens and environmental stresses.



## MASSBOOST

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MASSBOOST is a highly concentrated organo-mineral calmag that contains calcium, magnesium, nitrogen, sulphur and L-amino acids to support healthy, vigorous growth through both veg and flower.



## STARTBOOST

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STARTBOOST is a highly concentrated, all-in-one nitrogen booster, root stimulator, microbial inoculant and rooting agent that contains 6.1% nitrogen, carbon, leonardite humic and L-amino acids.



## ECOZEN

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ECOZEN is a natural enzyme booster and micro-life stimulator that breaks down built up salt, conditions the growing media and improves the quality and flavour of flowers and fruits.



## BLOOMBOOST

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BLOOMBOOST is an additive used throughout the entirety of the fruiting and flowering periods of a plant's lifespan.



## PEAKBOOST

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PEAKBOOST is an ultra-concentrated, fast acting, phosphorus booster and flower site initiator designed for use in early to mid-flower.



## FINALEBOOST

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FINALEBOOST is a spectacular "shaping tool" and finisher that's used by many cultivators to increase the overall size, weight, density and quality of their flowers.



## BASE

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BASE is a dual-stage base nutrient designed for high-demand cultivars in both veg and flower. This precise, clean and concentrated formula contains no ballast salts or chlorides allowing for a cleaner and more responsive base nutrient.



## MINERAL-CALMAG

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MINERAL-CALMAG is an ultra-clean, pH stable, high-performance calcium & magnesium supplement for indoor and outdoor cultivation.



## SYSTEM-CLEAN

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SYSTEM-CLEAN is a stabilised oxidate that increases the amount of dissolved oxygen in the feed water, which increases growth and substrate health while cleaning irrigation lines, drippers, sprayers and feed rings



## BREAKOUT POWDER

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BREAKOUT POWDER is an ultra-clean, pH stable, commercially viable PK booster that's compatible with every cultivation system and substrate.



## BASEBOOST

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BASEBOOST is a 100% organic, slow-release fertiliser amendment that contains every macro and micronutrient needed to grow healthy, vigorous plants.

# LESS BOTTLES. MORE STABILITY.

## APTUS CLEAN PROGRAM



## THE CLEAN PROGRAM

This feed program will last 14 days in a reservoir or DWC system and will not cause any salt or biofilm build-up in irrigation/fertigation systems.

With only 4 bottles and 1 powder (5 bottles if you're using FASILITOR) used through both Veg and Flower, the APTUS CLEAN PROGRAM is simply the best all-round program for low cost, high-value, modern cultivation.

The pH stability is so reliable you can mix and set your reservoir on a given day and it will read exactly the same (+/- 0.05) seven days later with no adjustment in between.

### SUBSTRATE TYPES

Coco coir, coco blends, rockwool, stonewool, perlite, vermiculite, hydroton, water, soil

### SUITED FOR

Drain-to-waste, recirculating, DWC, ebb-and-flow, NFT, aeroponics

**Note:** Recirculating and DWC systems need to be topped up to maintain pH stability & nutrient density

[DOWNLOAD CLEAN PROGRAM](#)

Over a period of 24 months we developed, tested and refined what we've named our CLEAN PROGRAM. A predominately mineral feed schedule, this ultra-clean, pH stable program is not only suitable for every single cultivator and every single substrate, it's also one of the cheapest and simplest programs on the market.



APTUS  
**PREMIUM**  
PROGRAM  
★★★★★

# PREMIUM QUALITY. SUPERIOR FLAVOUR.

## THE PREMIUM PROGRAM

This feed program is best suited for run-to-waste systems but can also be used in recirculating coco and perlite systems. It's recommended to mix fresh feed daily, bi-daily or every 3 days at a maximum to reduce the build-up of biofilm in reservoirs and irrigation systems.

This program should not be used in DWC, NFT or aeroponic systems. Cultivators running these systems and substrates should follow our CLEAN Program.

### SUBSTRATE TYPES

Coco coir, coco blends, rockwool, perlite, peat, soil

### SUITED FOR

Drain-to-waste, recirculating



Previously known as our coco/perl feed schedule, the APTUS PREMIUM PROGRAM is our OG feed schedule. This program is the absolute gold standard of quality, flavour, oil production and shelf life.

For the grower looking to produce the absolute best flower they can or any extraction artist looking to increase the quality, colour & yield of their extracts, this is the program to follow.

[DOWNLOAD PREMIUM PROGRAM](#)

# FASiLITOR

## NUTRITION MANAGER AND PLANT STRENGTHENER

Add FASiLITOR to the water in your reservoir first before any other products. This is important due to the method in which the monomer-silicic-acid particles are stabilised. Failure to do so will result in a loss of FASiLITOR's benefits.

### DOSAGE INSTRUCTIONS

Feeding Type	Metric
Regular feeding	0.15 ml per 1L
Anti-stretch flowering	0.3 ml per 1L
Foliar spray	1 ml per 1L

### PROGRAMS





## ABOUT

As the flagship of the APTUS product lineup, FASiLITOR is extremely concentrated, pure and fast acting.

While it is a silica-based solution, it is unlike any other silica product on the market. FASiLITOR's patented formula works by increasing vascular pressure within the plant to heighten mineral translocation throughout its entire structure resulting in more complete, robust and quality tissue formation.

The patented and stabilised concentration of monomer silicic acid particles allows for fast response against abiotic and biotic stress factors (environmental and pests), shorter internodal spacing, incredible bio-availability and increased yields all while utilising natural mechanisms within the plant to gain these benefits.

## EDUCATION

Silicic acid provides bioavailable silica that is easily translocated to needed areas within the plant including signs of insect attack, cell wall and tissue formation. In addition, FASiLITOR's silicic acid formula works to distribute boron (B) evenly throughout the plant's tissue which is the precursor for cell formation, movement of plant energy (sugars) and setting flowers.

The third and final trace mineral in FASiLITOR is molybdenum. Molybdenum is an essential component of enzymatic processes within the plant that convert nitrates into compounds used to manufacture amino acids, convert inorganic phosphorus into organic forms within the plant and is also crucial to bacteria that fix atmospheric nitrogen into your soil.

## WHY USE FASiLITOR?

- Resistance against abiotic (environmental: temperature, wind, drought).
- Resistance against biotic stress (living: pests & pathogens).
- Improves uptake, absorption and utilisation of nutrients.
- Stronger cell structures and epidermis layer creating thicker tissue (increases dry yield).

- Reduces internodal spacing by adjusting mineral translocation to new limbs.
- Increases resistance against salinity (nutrient salt buildup) by limiting uptake of excess minerals present in the planting medium.
- Reduces transpiration (loss of moisture from the leaves) by forming thick cell walls which are made primarily of silica and calcium.

## KEY INGREDIENTS

**Silicic Acid** *Mineral translocation adjuster, cell wall strengthener, abiotic and biotic stress reduction agent*

**Boron** *Precursor to cell wall formation, translocator of plant energy (sugars), beneficial agent for flower and fruit formation*

**Molybdenum** *Creator of crucial beneficial plant enzymes, synthesiser of organic phosphorus and crucial to atmospheric nitrogen-fixing bacteria in the soil*

## TIPS FROM THE FIELD

Do not contaminate with measuring instruments.

Pour FASiLITOR into container of choice for measuring.

FASiLITOR makes plants more compact through increasing the variety of minerals being translocated throughout the plant at any given time. This mature, robust growth is a result of complete formation through increased mineral variety and density.

If your plants are experiencing nutrient deficiencies, FASiLITOR can often help correct these apparent effects. In a soil-container environment, FASiLITOR, through the action of silicic acid, will work to regulate how much of a mineral is let into the plant. This activity can minimise the effects of what would be a toxicity, allowing for healthy growth once again.

# MASSBOOST

## CALCIUM/MAGNESIUM AND BUD BOOSTER

Add MASSBOOST to your reservoir every feeding as per feed schedule. If using MASSBOOST as a bud booster additive with another regime, add 0.5 ml per 1L in weeks 3, 5 and 7 of the flowering phase. When mixing with any phosphorus supplements (PEAKBOOST or mineral fertilisers), be sure to mix one into the solution before adding the other to minimise the chance of forming calcium-phosphate bonds which render both unavailable to the plant.

### DOSAGE INSTRUCTIONS

Feeding Type	Metric
Clones & seedlings	0.25 ml per 1L
Regular feeding (vegetative)	0.25 – 0.33 ml per 1L
Regular feeding (flowering)	0.25 – 0.5 ml per 1L
Foliar spray (maintenance)	2 ml per 1L
Foliar spray (repair)	4 ml per 1L



### PROGRAMS





## ABOUT

MASSBOOST is an organo-mineral plant booster that prevents calcium (Ca) and magnesium (Mg) deficiencies while stimulating powerful fruit set and development.

## EDUCATION

Calcium largely comprises the cell walls of plant cells which gives them structure. An uninterrupted supply of calcium allows for stout flowers, stems, leaves and the continued healthy formation of new plant tissue.

It is important to have available calcium to prevent blossom end rot, dropped flowering sites and necrosis of leaf tissue.

Chelated magnesium allows for optimal supply to enzymes in the plant which require the element to perform their tasks properly.

Magnesium is the central core of the chlorophyll molecule. A chelated supply allows for continued robust chlorophyll development allowing the plant to perform photosynthesis at optimal levels.

## WHY USE MASSBOOST?

- Provides organic nitrogen from L-amino acids that stimulate plant development.
- High bioavailability, 100% water soluble and leaves no residue.
- Combines calcium (Ca) and magnesium (Mg) with L-amino acids to eliminate or correct deficiencies.
- Improves structure and firmness of the flower and fruit.
- Provides the extra boost plants need during certain plant-development phases and other important natural bio-stimulants.

## KEY INGREDIENTS

**Calcium** Integral structural element to plant cells.

**Magnesium** Central element in the formation of chlorophyll, source of photosynthetic activity, enzymatic process activator.

## TIPS FROM THE FIELD

Pay attention when mixing PEAKBOOST and MASSBOOST as they can react with each other. Always add one, dilute and mix, then add the other.

If using multiple phosphorus based products, take care when adding MASSBOOST as phosphorus and calcium, when combined in high concentrations, may cause deposits and residues.

# STARTBOOST

## ROOT AND GROWTH BOOSTER

Add STARTBOOST to your reservoir every feeding during the entire vegetative phase and into the first week of flowering to assist with a healthy transition to the bloom cycle.

### DOSAGE INSTRUCTIONS

Feeding Type	Metric
Regular feeding	0.25 ml per 1L
Seedlings/clones	1 ml per 1L
Transplant root dip	10 ml per 1L
Foliar spray	1 ml per 1L



### PROGRAMS





## ABOUT

STARTBOOST, along with FASiLITOR, is a foundation product of the APTUS range. STARTBOOST consists of two natural ingredients: humic acid and protein hydrolysate.

This synergy of natural ingredients promotes increased transport of nutritional elements across plant cell membranes whilst reducing levels of toxic elements in the growing medium. STARTBOOST also provides organic nitrogen from L-amino acids for natural and initial growth. STARTBOOST is also beneficial for the propagation and root development of seeds and cuttings.

## EDUCATION

Organic nitrogen provided by L-amino acids promotes robust vegetative growth and photosynthesis without risk of burning or overdose.

A wide spectrum of natural L-amino acids provides beneficial stimuli to bacteria population numbers within the planting medium.

Humic substances have a positive effect on plant physiology by influencing nutrient uptake and root system interactions within the planting medium.

Through interactions with various compounds in the soil, countless complexes are formed from organic and mineral components. From the formation of these complexes, compounds may dissolve, mobilise and transport products throughout the medium. It is these sets of complex interactions with humic substances that provide soil health, structure and ultimately, benefit to the plant growing above.

## WHY USE STARTBOOST?

- Powerful stimulator of tissue formation through organic nitrogen provided by protein hydrolysate.
- Natural chelator of elements present in the planting medium.
- Provider of organic nitrogen in the form of amino acids resulting from enzymatic digestion of natural materials.
- Beneficial agent for propagation of seeds and cuttings.

## KEY INGREDIENTS

**L-amino acids** Product of enzymatic digestion of natural materials, provider of organic nitrogen (N), stimulant to healthy bacteria population numbers.

**Humic Acid** Building block of soil structure and health, natural chelator of various elements in the planting medium.

## TIPS FROM THE FIELD

Begin feeding with STARTBOOST (plus FASiLITOR) as soon as your plants develop initial roots and leaves. Continue feeding throughout the entire vegetative phase.

Use a 1:1000 dilution to feed new clones or starts from seeds (1 ml per 1 litre). This is effective as a pre-soak for cloning or seed starting medium.

During transplanting, dip the roots of the plants directly in a 1:100 mixture (10 ml per 1 litre).

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

# ECOZEN

## ENZYME BOOSTER AND MICRO-LIFE STIMULATOR

Add ECOZEN to your nutrient mixture every feeding during all stages of plant growth to keep the medium clean and healthy. ECOZEN may also be applied at double strength once per week if desired.

### DOSAGE INSTRUCTIONS

Feeding Type	Metric
With every feeding	0.25 ml per 1L
Once weekly application	0.5 ml per 1L

### PROGRAMS





## ABOUT

ECOZEN is a powerful blend of enzymes that have many different functions, including, keeping the root surface clean and removing dead organic matter and residues. These are important functions for soil health, rhizosphere and maintaining active nutrient uptake.

ECOZEN also contains enzyme complexes that transform accumulated or precipitated salts into usable plant nutrients. This helps to stabilise EC in the medium and improves the plant's natural ability to absorb more nutrients while avoiding fertiliser salt build-up that can cause antagonism, lock-up and pathogen problems in the root system.

Overall, ECOZEN is an effective root and soil conditioner that works in conjunction with microbial life and bioavailable nutrition. ECOZEN also contains a small amount of manganese, which stimulates micro-life, which in turn helps further breakdown and recycles the material broken down by the enzymes.

## EDUCATION

As roots grow, some die off to make room for new growth. This results in cellulose (starchy plant matter) around the roots, which inhibits nutrient absorption and microbial development. The cellulase in ECOZEN breaks down cellulose and keeps the roots clean.

Beta-glucanase enzyme complexes transform precipitated nutrient salts into plant-available nutrients helping to minimise build-up and increase uptake.

Manganese (Mn) plays a role in the process of supplying energy for photosynthesis. In addition, high concentrations of manganese correlate to high levels of sugars in plants.

## WHY USE ECOZEN?

- Grow mediums can be used longer and for multiple cycles (less medium replacement saves cost and work).
- Stabilises EC in mediums and prevents salt accumulation (decreases nutrient lock-up).
- Can fertilise later in the cycle without risk of built up salts affecting flavour and quality.
- Keeps root system and medium clean (improves absorption, reduces residues).

## KEY INGREDIENTS

### ***Cellulase and beta-glucanase enzyme complexes***

Root zone conditioners.

***Manganese*** Crucial component for photosynthesis.

## TIPS FROM THE FIELD

Use ECOZEN at least once a week to keep the root area clean and nutrient assimilation optimised.

# BLOOMBOOST

## BLOOM BOOSTER AND QUALITY ENHANCER

Add BLOOMBOOST to your reservoir every feeding from the second week of the flowering stage until harvest. BLOOMBOOST can be continued until harvest with no negative affect on quality and flavour.

### DOSAGE INSTRUCTIONS

Feeding Type	Metric
Regular feeding	0.2 ml - 0.5 ml per 1L
Foliar spray	1 ml per 1L

### PROGRAMS





## ABOUT

BLOOMBOOST is an additive used throughout the entirety of the fruiting and flowering periods of a plant's lifespan. BLOOMBOOST contains a blend of plant available elements including potassium, sulphur and boron that work together to increase fruit/flower size, fibre mass and quality. APTUS has designed this product to provide these three elements in precise amounts at desired times during the plants' reproductive cycles to maximise harvests.

BLOOMBOOST is an excellent all-in-one health additive for your plants during their reproductive phase of growth. Using BLOOMBOOST throughout the fruiting and flowering phases of growth allows for increased flower setting, larger harvests and heightened aroma of end products.

## EDUCATION

Potassium provided by BLOOMBOOST works to form healthy fibrous fruits and flowers. The underlying amount of slight but constant potassium is designed by APTUS based on Dr. Albreicht's theories of mineral antagonism to give the benefit of potassium's effects in initial flower development.

Sulphur is a crucial component in the formation of proteins, certain plant hormones and aids in the formation of certain oils and volatile compounds found in some plants. The additional sulphur encourages your plants' natural genetic expression, enhancing their aroma and taste by increasing terpenes and flavonoids.

The last element in BLOOMBOOST, boron, works to preserve the integrity of various membranes within the plant allowing for increased structural integrity during flower development.

## WHY USE BLOOMBOOST?

- Precursor to the healthy formation of chlorophyll for optimal photosynthetic activity during the bloom phase allowing for healthy growth and maturation.
- Contains elements crucial to the formation of certain oils and volatile compounds within plants.
- Assists in the development of a healthy reproductive system within the plant. This includes heavy flower setting as well as healthy pollen and seed formation for breeders.
- Increases trichome and terpene production.

## KEY INGREDIENTS

- Boron** Agent allowing for healthy cell wall synthesis and cell division.
- Sulphur** Component of essential amino acids, aromatic characteristic promotant.
- Potassium** Thickener of fruit and flower structures.

## TIPS FROM THE FIELD

BLOOMBOOST may be used at a higher dilution ratio (up to 0.5 ml per 1L) for an increased result in quality. Be sure your PPM and base nutrient (bloom fertiliser) mixture will allow for increased dosage.

# PEAKBOOST

## PHOSPHORUS BOOSTER

Add PEAKBOOST to your reservoir every feeding from the first week to the fourth week of the flowering stage. It is okay to extend or shorten the usage of PEAKBOOST based upon the total flowering time of your specific plant or by the preferences of each individual cultivar.

When mixing with any calcium supplements (like MASSBOOST or MINERAL-CALMAG), be sure to allow one to mix in the solution before adding the other to minimise possible lockout.

DOSAGE INSTRUCTIONS	
Feeding Type	Metric
Regular feeding	0.1 ml – 0.3 ml per 1L
Foliar spray (maintenance)	2 ml per 1L
Foliar spray (repair)	4 ml per 1L



### PROGRAMS





## ABOUT

Peakboost is an ultra-concentrated, fast acting phosphorus booster and flower site initiator designed for use in early to mid-flower. This Potassium free formula is extremely bioavailable making it the perfect shaping tool for small and large scale cultivators.

The dosage strength and application duration can be easily customised to match the characteristics and overall flowering duration of each unique strain.

## EDUCATION

Using a potassium free phosphorus booster allows you to individually supplement the macro-element (P) to suit the preferences and metabolism of your plant genetics.

PEAKBOOST can be used as a standalone phosphorus booster at any stage of growth.

## WHY USE PEAKBOOST?

- Provides high levels of natural bioavailable phosphorus during the early generative and bloom stages.
- Minimises antagonism and lockout of phosphorus with other nutrients.
- Powerful stimulating effect on the blooming process.
- 100% water soluble and organo-mineral leaving no residue.

## KEY INGREDIENTS

**L-amino acids** which provide organic nitrogen (N).

**Phosphorus** *Crucial to the capturing of sunlight into usable forms of energy within the plant.*

## TIPS FROM THE FIELD

Gradually increase PEAKBOOST dosage throughout the bloom cycle until your flowers are well set and ready for bulking. It is ok to start FINALEBOOST transition later on plants with longer maturation periods.

Should you see purple colouring or streaks on the petioles (the stalk that joins the leaf to the stem) of your plants in the vegetative stage of growth, add PEAKBOOST to your veg feeding mix at the rate of 0.25 ml per litre to correct the deficiency. Alternatively, you can foliar spray PEAKBOOST at the rate of 2 - 4 ml per litre.

**Note:** Always raise or dim your lights before foliar spraying your plants.

# FINALEBOOST

## MATURATION BOOSTER

At minimum add FINALEBOOST to your reservoir weeks six through eight of the flowering stage. It's okay to extend or shorten the usage of FINALEBOOST based upon the total flowering time of your specific plant, or by the preferences of each individual cultivar.

### DOSAGE INSTRUCTIONS

Feeding Type	Metric
Regular feeding	0.1 ml – 0.67 ml per 1L
Foliar spray (maintenance)	2.5 ml per 1L
Foliar spray (repair)	5 ml per 1L



### PROGRAMS





## ABOUT

FINALEBOOST is a concentrated finishing agent high in potassium and sulphur. Used by many cultivators around the world to increase the overall size, weight, density, aroma, and quality of their flowers, this phosphorus free formula is extremely bioavailable making it the perfect shaping tool for small and large scale cultivators.

The dosage strength and application duration can be easily customised to match the characteristics and overall flowering duration of each unique strain.

## EDUCATION

Using a phosphorus free potassium booster allows you to individually supplement the macro-element (K) to suit the preferences and metabolism of your plant genetics.

FINALEBOOST can be used as a standalone potassium booster at any stage of growth.

## WHY USE FINALEBOOST?

- Stimulates fruit and bud maturation.
- Firmer and more nutritious end product.
- Improves crop quality by increasing production of sugars and amino acids.
- Minimises antagonism and lockout of potassium with other nutrients.
- Powerful stimulating effect on the blooming and finishing process.
- 100% water soluble and organo-mineral leaving no residue.

## KEY INGREDIENTS

**Potassium** Regulator of plant perspiration, fibrous mass enhancer, enzyme activator.

**Sulphur** Component of essential amino acids, aromatic characteristic promotant.

## TIPS FROM THE FIELD

Using a phosphorus free potassium booster that contains a large amount of sulphur is highly beneficial for maturation in the final weeks of flower.

FINALEBOOST can be used as an additive to pre-load substrates such as perlite to prevent potassium deficiencies after transplant.

# BASE

## NUTRIENT LIQUID

Add BASE to your reservoir during both the vegetative and flowering periods of growth. Be mindful that BASE does not contain calcium and is essentially a Part-B NPK component and must be combined with either MASSBOOST or MINERAL-CALMAG for optimal results.

### DOSAGE INSTRUCTIONS

Feeding Type	Metric
Regular feeding	1 – 2 ml per 1L

### PROGRAMS



## ABOUT

BASE is a 100% mineral-based fertiliser compatible with all growing mediums and hydroponic systems. BASE is the only NPK nutrient product you need to use from the beginning of vegetative growth until the end of the fruiting and flowering phase.

BASE is easy to use throughout your plants' growth cycle. Simply add at the rate of 1 – 2 ml per litre with the addition of either MASSBOOST or MINERAL-CALMAG.

## EDUCATION

BASE provides the essential macro and micro elements needed for plant growth throughout the vegetative and flowering phases of growth.

The ingredients selected for BASE were intentionally chosen to not include chlorides or ballast salts, which cause unnecessary contamination of the growing substrate. Without chlorides or ballast salts, BASE allows you to view the true nutrient density of your feed solution.

BASE contains 0% calcium and must be used with either MASSBOOST (our organo-mineral calcium/magnesium supplement) or MINERAL-CALMAG (our mineral based 'clean' calcium/magnesium supplement).

## WHY USE BASE?

- Easy to use – 1-part NPK fertiliser specifically designed for both grow and bloom.
- A recommended dilution rate of 1 – 2 ml per 1L throughout the plants' entire growth cycle.
- Cost effective and stable.
- Applicable in all major growing mediums including: soil, coco, perlite, hydroton, peat moss and rockwool-based mediums.
- Contains no chlorides or ballast salts minimising the formation of junk salts in your planting medium.

## KEY INGREDIENTS

- Nitrogen** Crucial element in chlorophyll, crucial component of plant amino acids.
- Phosphorus** Improves formation of flowers, stimulator of root development.
- Potassium** Core component of the unit of plant energy, ATP, controller of plant respiration.
- Magnesium** Central core of the chlorophyll molecule essential for photosynthesis.
- Boron** Crucial to healthy cell wall formation.
- Molybdenum** Converter of inorganic phosphorus into organic forms within the plant.
- Iron** Essential component to chlorophyll formation, crucial to critical enzyme formation.
- Manganese** Crucial agent for root growth, resistor of root zone originating pathogens.
- Zinc** Essential component in the formation of auxins regulating plant growth.
- Copper** Activator of enzymatic reactions.

## TIPS FROM THE FIELD

If starting new from seed, dilute BASE at 1 ml per litre along with either MASSBOOST or MINERAL-CALMAG from first signs of leaves. FASILITOR and STARTBOOST are also recommended if applicable with your SOP's. Increase dose to 1.5 ml per litre as plants begin to establish.

When growing under high intensity HID or LED lights, it's safe to increase BASE by 10 – 30% above the recommended dose to correct NPK deficiencies. While our recommended dosages are calculated from real world experience growing high-performance cultivars under high intensity HID and LED lights with the enrichment of additional Co<sub>2</sub>, there is always the possibility of deficiency with certain cultivars.



# MINERAL-CALMAG

## CALCIUM AND MAGNESIUM BUFFER

Shake well before use. If using FASiLITOR, ensure FASiLITOR is mixed first. Add MINERAL-CALMAG second, mix well, then add the remainder of your products.

**In soil:** Use once a week.

**In coco/soil-less/hydro:** Use in combination with BASE every watering. Do not use any additional non-APTUS sources of phosphorus

### DOSAGE INSTRUCTIONS

Feeding Type	Metric
With a 2-part NPK	0.4 ml per 1 L
With BASE & municipal water	0.6 ml per 1 L
With BASE and RO/Soft water	0.8 - 1 ml per 1 L

### PROGRAMS



## ABOUT

MINERAL-CALMAG is a 100% water-soluble additive containing necessary plant-available forms of nitrogen (N), calcium (Ca) and magnesium (Mg).

This formulation has been designed to prevent common deficiencies while buffering your feed water when growing in soil-less mediums such as coco, perlite, rockwool, hydroton or recirculating systems and/or using filtered sources of water. MINERAL-CALMAG can be used throughout the entirety of the vegetative and flowering stages of growth.

MINERAL-CALMAG has excellent pH stabilising capabilities and is the CALMAG of choice for commercial growers or any cultivator operating fertigation systems, recirculating systems or longer reservoirs.

While MINERAL-CALMAG is 100% mineral, super clean and will never spoil, MASSBOOST contains beneficial L-Amino Acids and is the CALMAG of choice for growers mixing fresh feed daily. MASSBOOST can also be administered via foliar application.

**NOTE:** MASSBOOST is an organo-mineral product which leads to organic biofilm build-up when kept in a nutrient reservoir for more than 2-3 days.

BASE contains zero calcium and must be used in conjunction with either MASSBOOST OR MINERAL-CALMAG. Deciding which APTUS CALMAG to use (MASSBOOST or MINERAL-CALMAG) is largely dependent on your growing method.

## EDUCATION

Through high-intensity irrigation methods often seen in modern indoor cultivation practices, coconut-fibre based planting mediums can become deficient of calcium (Ca) resulting in high levels of accumulated potassium (K) and sodium (Na). This excess of potassium (K) and sodium (Na) most often results in antagonism and lockout, leading to deficiencies within the plant.

Due to the mixture of nutrients coming into the plant being fully optimised for healthy growth, allowances for varying excess of potassium (K) and sodium (Na) are not considered. Because of this, mineral antagonism occurs, preventing the uptake of magnesium (Mg), causing unhealthy growth and the appearance of deficiencies.

MINERAL-CALMAG replaces the calcium (Ca) ions lost through constant irrigation, providing the buffering capabilities needed to prevent this antagonistic exchange.

## WHY USE MINERAL-CALMAG?

- Concentrated and easy to use dilutions of just 0.4 ml – 1 ml per 1 litre.
- Utilises the highest grade raw minerals available providing the absolute cleanest possible calcium & magnesium additive for your cultivation system.
- Prevents coconut-fibre based planting mediums from becoming a source of nutritional imbalance, lending stability to your crops' flowering stage of growth.
- Replaces the calcium (Ca) ions lost through constant irrigation that occurs during indoor cultivation practices .
- Supplements magnesium (Mg) that is pushed away when excess potassium is present from imbalance.

## KEY INGREDIENTS

**Nitrogen** *Crucial element in chlorophyll, crucial component of plant amino acids.*

**Calcium** *Integral structural element to plant cells.*

**Magnesium** *Central element in the formation of chlorophyll, source of photosynthetic activity, enzymatic process activator.*

## TIPS FROM THE FIELD

MINERAL-CALMAG is required when using BASE. If you use BASE, ensure you use MINERAL-CALMAG or MASSBOOST to avoid deficiencies. BASE contains zero calcium and must be used in conjunction with MINERAL-CALMAG or MASSBOOST.

When mixing your nutrients, be careful to avoid adding phosphorus (P) supplements like PEAKBOOST directly onto MINERAL-CALMAG without mixing well. Always add and stir each product before adding the next to minimise local fallout which can decrease the quality of your nutrient mix.

During weeks where a high number of products are used, your available amount of nitrogen (N) can get high. If you are not using BASE, and are using a 2- or 3-part base nutrient, you may want to consider decreasing the part containing nitrogen by 10 – 20%.

# SYSTEM-CLEAN

## PLANT SAFE IRRIGATION LINE CLEANER

Add SYSTEM-CLEAN to the nutrient tank at 0.25 ml per 1L of water. SYSTEM-CLEAN will last for maximum 3 days in the nutrient solution. If your nutrient mix stands for more than 3 days, mix SYSTEM-CLEAN to the entire amount of water in the nutrient tank to help minimise biofilm/salt and residue build-up.

### DOSAGE INSTRUCTIONS

Feeding Type	Metric
With every tank / reservoir	0.25 ml per 1L
System flush / clean between cycles	0.5 ml per 1L

### PROGRAMS





## ABOUT

SYSTEM-CLEAN is a powerful oxidiser 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 (organic leading to biofilm and mineral leading to salt) can build up in the cultivation system. These remaining nutrients acidify (lower pH) the growing medium, increasing the chance of microbial attack by providing nutrition for pathogens.

## EDUCATION

SYSTEM-CLEAN helps maintain a healthy irrigation system by removing built-up biofilm/salt and keeping high levels of oxygen in the nutrient solution.

**NOTE:** The SYSTEM-CLEAN formula sold in Australia, New Zealand and Japan differs from the formula sold in North America. Both formulas are oxidisers and perform in the same way, they just vary in concentration and have differing dilution instructions.

## 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/salt in irrigation systems (prevents nutrient build-up).
- Adds extra oxygen to the root zone (increases dissolved oxygen levels).
- Removes source of pathogens.

## KEY INGREDIENTS

*7.9% food grade stabilised H2O2.*

## TIPS FROM THE FIELD

SYSTEM-CLEAN may be used alone in water for a system flush between cycles. SYSTEM-CLEAN will not kill micro-life when diluted at 0.25 ml per 1L.

# BREAKOUT POWDER

## PHOSPHORUS & POTASSIUM BOOSTER

Add BREAKOUT POWDER directly to your reservoir or stock tank as per instructions/feeding program and mix well.

While you can add the pure powder directly to your reservoir, feed water or stock tank, it's recommended to place your measured dose of BREAKOUT POWDER into a measuring jug or bucket with a small amount of water, stir/agitate until solubilised, then add mixed solution to your reservoir, feed solution or stock tank.

### DOSAGE INSTRUCTIONS

Feeding Type	Metric
Reguar Feeding	0.25 - 1 g per 1 L

### PROGRAMS



## ABOUT

BREAKOUT POWDER provides great value for small and large-scale cultivators as an easy to use flower setting and bulking product. BREAKOUT POWDER is formulated using the highest quality water-soluble concentrates of phosphorus, potassium and sulphur, helping to achieve higher yields and better taste.

## EDUCATION

BREAKOUT POWDER is a powdered PK supplement that provides a high-quality option for gardeners looking for a cost effective, water-soluble flowering additive.

BREAKOUT POWDER consists of monopotassium phosphate, a concentrated source of both phosphorus and potassium. These elements are 100% critical to the production of energy and photosynthetic activity within the plant. In addition, BREAKOUT POWDER contains potassium and magnesium sulphates to ensure strong aroma with the highest quality end products.

## WHY USE BREAKOUT POWDER?

- Low-cost and high-quality source of important phosphorus, potassium and sulphur.
- Economical with extremely low-dilution ratio of 25 - 100 grams per 100 litres.
- Provides a strong source of sulphur to enhance colours and flavours during the maturation stage.

## KEY INGREDIENTS

- Phosphorus** Improver of overall crop quality, crucial element in photosynthetic units of energy.
- Potassium** Essential component for the production of photosynthetic units of energy, regulator of plant-water content and CO<sub>2</sub> consumption.
- Sulphur** Vital component of plant proteins, essential to formation of certain oils in specific plants.

## TIPS FROM THE FIELD

Do not use in conjunction with PEAKBOOST and or FINALEBOOST.

Always check your EC after adding BREAKOUT POWDER to your reservoir. Adjust with fresh water if necessary.



# BASEBOOST

## COMPLETE TIME-RELEASE FERTILISER PELLET

Application is incredibly simple. You can either mix into your soil or planting hole prior to transplanting or top-dress and water in. Apply with water only or add boosters for greater effect. BASEBOOST is effective and safe even for young plants. BASEBOOST can take a week or two to fully kick in so it's a good idea to use FASILITOR and STARTBOOST at the beginning for a faster start.

DOSAGE INSTRUCTIONS	
Feeding Type	Metric
Regular feeding	100 grams per 25 Litres of soil/media

### PROGRAMS



## ABOUT

BASEBOOST is a time-release 100% organic pellet fertiliser 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 macro-nutrients and micro-nutrients, L-amino acids and bio-stimulants to enhance plant development over a period of time.

BASEBOOST is an effective standalone as a complete fertiliser for the grower with little time or trying to simplify the work of growing. For advanced growers looking to maximise yields, BASEBOOST is an effective replacement for a typical base NPK nutrient in combination with the rest of the Premium Collection boosters.

You can apply BASEBOOST during transplanting by mixing into the growing medium or as a top dressing to extend the growing cycle (especially outdoor applications).

## EDUCATION

Organic nitrogen provided by L-amino acids promotes robust vegetative growth and photosynthesis without risk of burning or overdose.

Full spectrum organic L-amino acids provide growth materials, plant and microbe bio-stimulation and boost beneficial bacteria populations.

L-amino acids stimulate natural plant processes and growth, including stimulating micro-life.

Complete nutrient profile minimises plant stress due to environment, pests and pathogens. Healthier plants means greater yield and quality.

## WHY USE BASEBOOST?

- Simple and complete 100% organic plant nutrition – nothing else but water is required for a 3-month cycle, vegetative and flowering
- Complete formulation reduces fertiliser input and work

- Easy to use – application is once every 2 to 3 months simply by mixing in the pellets or topdressing.
- Perfect for remote locations and long-lasting crop cycles.
- Provides organic nitrogen and L-amino acids that stimulate plant development.
- Helps condition soil, improves plant development and stimulates micro-life.
- Long shelf-life if properly stored.

## KEY INGREDIENTS

**L-amino acids** which provide organic nitrogen.

Primary macro-nutrients: **nitrogen, phosphorus, potassium.**

Secondary macro-nutrients: **calcium, magnesium and sulphur.**

Organically chelated micro-nutrients such as, **boron, iron, manganese, zinc.**

## TIPS FROM THE FIELD

Use more pellets for sandy soil (200 grams per plant) than for clay or heavy soil (100 grams per plant), per cycle (2 – 3 months).

If your cycle is longer than 3 months, apply a second treatment as top-dressing and water from the top, or mix pellets into the top couple inches of soil.

In case of deficiencies, simply add more pellets as topdressing and water from the top. The pellets will be solubilised and the nutrients assimilated by the plant.

Mix into the ground during soil preparation or simply place at the bottom of each planting hole.

For better results outdoors, use with FASILITOR, STARTBOOST & BLOOMBOOST.

For better effect indoors, use with all boosters. If mixing into inert/unamended media, mix in, then saturate media one week prior to transplant.

# APTUS CLEAN PROGRAM



## Substrate types

Coco coir, coco blends, perlite, vermiculite, hydroton, rockwool, stonewool, water, soil

## System

Drain-to-waste, recirculating, DWC, ebb-and-flow, NFT, aeroponics

# APTUS

High-performance nutrition  
for high-value crops

Growth phase Week of growth	Vegetative Week 1	Vegetative Week 2-3-4	Flower Week 1	Flower Week 2	Flower Week 3	Flower Week 4	Flower Week 5	Flower Week 6	Flower Week 7	Flower Week 8	Final Flower Week
1	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water
2	<b>SYSTEM-CLEAN</b> - mix well -	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L
3	<b>MINERAL-CALMAG</b> - mix well -	0.8 ml/L	0.8 ml/L	0.8 ml/L	0.8 ml/L	0.8 ml/L	0.8 ml/L	0.8 ml/L	0.8 ml/L	0.8 ml/L	0.8 ml/L
4	<b>BASE</b> - mix well -	1.25 ml/L	1.5 ml/L	1.5 ml/L	1.75 ml/L	2 ml/L	2 ml/L	2 ml/L	2 ml/L	1.75 ml/L	1.25 ml/L
5	<b>BREAKOUT POWDER</b> - mix well -				0.25 g/L			0.5 g/L			
6	<b>FINALEBOOST</b> - mix well -							0.5 ml/L	0.5 ml/L	0.5 ml/L	
7	Check pH	pH 5.8	pH 5.8	pH 5.9	pH 6.0	pH 6.0	pH 6.1	pH 6.1	pH 6.2	pH 6.2	pH 6.2
8	Nutrient mix is ready for use	Our CLEAN feed program is a mineral based, ultra-clean, cost effective, pH stable, set-and-forget style of program that can be used with all growing systems, substrate types and cultivation methods. This feed program will last 14 days in a reservoir or DWC system and will not cause any salt or biofilm buildup in irrigation/fertigation systems.									

## OPTIONAL monosilicic acid and bio-stimulant foliar program

1	<b>FASILITOR</b> - mix well -	1 ml/L	1 ml/L	1 ml/L	1 ml/L
2	<b>STARTBOOST</b> - mix well -	1 ml/L	1 ml/L		
3	<b>BLOOMBOOST</b> - mix well -			1 ml/L	1 ml/L

Note: If adding FASILITOR to this program be sure to mix into the water first before adding SYSTEM-CLEAN.



MORE STABILITY.  
SAME YIELD.





# APTUS PREMIUM PROGRAM



### Substrate types

Coco coir, coco blends, rockwool perlite, peat, soil

### System

Drain-to-waste, recirculating

# APTUS

High-performance nutrition  
for high-value crops

Growth phase Week of growth	Vegetative Week 1	Vegetative Week 2-3-4>	Flower Week 1	Flower Week 2	Flower Week 3	Flower Week 4	Flower Week 5	Flower Week 6	Flower Week 7	Flower Week 8	Final Flower Week
1	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water
2	<b>FASILITOR</b> - mix well - 0.15 ml/L	0.15 ml/L	0.3 ml/L	0.3 ml/L	0.3 ml/L	0.15 ml/L	0.15 ml/L	0.15 ml/L	0.15 ml/L	0.15 ml/L	
3	<b>MASSBOOST</b> - mix well - 0.25 ml/L	0.25 ml/L	0.33 ml/L	0.33 ml/L	0.33 ml/L	0.33 ml/L	0.33 ml/L	0.33 ml/L	0.33 ml/L	0.25 ml/L	
4	<b>PEAKBOOST</b> - mix well -		0.12 ml/L	0.14 ml/L	0.16 ml/L	0.12 ml/L					
5	<b>STARTBOOST</b> - mix well - 0.25 ml/L	0.25 ml/L	0.5 ml/L								
6	<b>FINALEBOOST</b> - mix well -			0.13 ml/L	0.17 ml/L	0.25 ml/L	0.33 ml/L	0.4 ml/L	0.5 ml/L	0.67 ml/L	
7	<b>BLOOMBOOST</b> - mix well -			0.2 ml/L	0.25 ml/L	0.29 ml/L	0.33 ml/L	0.33 ml/L	0.4 ml/L	0.5 ml/L	
8	<b>BASE</b> - mix well - 1.25 ml/L	1.5 ml/L									
<b>BASE to EC level</b>			1.2 - 1.4	1.2 - 1.4	1.2 - 1.4	1.4 - 1.6	1.4 - 1.6	1.4 - 1.6	1.2 - 1.4	1.0 - 1.2	
9	<b>ECOZEN</b> - mix well -	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.5 ml/L
10	Check pH	pH 5.8	pH 5.8	pH 5.9	pH 6.0	pH 6.0	pH 6.1	pH 6.1	pH 6.2	pH 6.2	pH 6.2
11	Nutrient mix is ready for use	PREFERABLY USE NUTRIENT MIX IMMEDIATELY, BUT ALWAYS WITHIN 3 DAYS. FOR LONGER / 7 DAYS RESERVOIRS, FOLLOW THE LOW MAINTENANCE OR CLEAN FEED SCHEDULE									



PREMIUM QUALITY.  
SUPERIOR FLAVOUR.



# SOIL PRO FEED PROGRAM

**Substrate types**  
Soil, peat, coco

**System**  
Drain-to-waste



# APTUS

Growth phase Week of growth		Vegetative Week 1	Vegetative Week 2:3:4>	Flower Week 1	Flower Week 2	Flower Week 3	Flower Week 4	Flower Week 5	Flower Week 6	Flower Week 7	Flower Week 8	Final Flower Week
1	<b>Add BASEBOOST to soil or coco</b>	100 grams per 25L										
2	<b>Fill tank with fresh water</b>	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water
3	<b>FASILITOR</b> - mix well -	0.15 ml/L	0.15 ml/L	0.3 ml/L	0.3 ml/L	0.3 ml/L	0.15 ml/L	0.15 ml/L	0.15 ml/L	0.15 ml/L	0.15 ml/L	
4	<b>MASSBOOST</b> - mix well -		0.2 ml/L	0.2 ml/L	0.2 ml/L	0.2 ml/L	0.2 ml/L	0.2 ml/L	0.2 ml/L	0.2 ml/L	0.15 ml/L	
5	<b>PEAKBOOST</b> - mix well -			0.06 ml/L	0.06 ml/L	0.06 ml/L	0.06 ml/L					
6	<b>STARTBOOST</b> - mix well -	0.25 ml/L	0.25 ml/L	0.5 ml/L								
7	<b>FINALEBOOST</b> - mix well -				0.1 ml/L	0.12 ml/L	0.15 ml/L	0.18 ml/L	0.2 ml/L	0.25 ml/L	0.33 ml/L	
8	<b>BLOOMBOOST</b> - mix well -				0.2 ml/L	0.2 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.33 ml/L	
9	<b>ECOZEN</b> - mix well -		0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.5 ml/L
10	Check pH	pH 5.8	pH 5.8	pH 5.9	pH 6.0	pH 6.0	pH 6.1	pH 6.1	pH 6.2	pH 6.2	pH 6.2	pH 6.2
11	Nutrient mix is ready for use	PREFERABLY USE NUTRIENT MIX IMMEDIATELY, BUT ALWAYS WITHIN 3 DAYS										



High-performance nutrition  
for high-value crops



# SOIL BASIC

## FEED PROGRAM

**Substrate types**  
Soil, peat, coco

**System**  
Drain-to-waste



# APTUS

Growth phase Week of growth		Vegetative Week 1	Vegetative Week 2-3-4>	Flower Week 1	Flower Week 2	Flower Week 3	Flower Week 4	Flower Week 5	Flower Week 6	Flower Week 7	Flower Week 8	Final Flower Week
1	<b>Add BASEBOOST to soil or coco</b>	100 grams per 25L									Top-dress for longer cycles	
2	<b>Fill tank with fresh water</b>	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water	Refresh Water
3	<b>FASiLITOR</b> - mix well -	0.15 ml/L	0.15 ml/L	0.3 ml/L	0.3 ml/L	0.3 ml/L	0.15 ml/L	0.15 ml/L	0.15 ml/L	0.15 ml/L	0.15 ml/L	
4	<b>STARTBOOST</b> - mix well -	0.25 ml/L	0.25 ml/L	0.5 ml/L								
5	<b>BLOOMBOOST</b> - mix well -				0.2 ml/L	0.2 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.25 ml/L	0.33 ml/L	
6	Check pH	pH 6.0	pH 6.0	pH 6.1	pH 6.1	pH 6.1	pH 6.1	pH 6.2	pH 6.2	pH 6.2	pH 6.2	pH 6.2
7	Nutrient mix is ready for use	PREFERABLY USE NUTRIENT MIX IMMEDIATELY, BUT ALWAYS WITHIN 3 DAYS										



High-performance nutrition  
for high-value crops

