

TRICHFECTA[®]+

BIOMEGA[®]: TRICHFECTA[®] + Product Descriptions

pH Disclaimer: Our products are designed for optimal pH balance, and in many cases, customers may not need to adjust the pH at all. However, *this can depend on the initial water quality*. If pH adjustment is necessary, we strongly recommend using *potassium carbonate instead of potassium hydroxide for a pH up*.

Here's why potassium carbonate is preferable:

1. Stability: It offers *greater stability in nutrient solutions*, crucial for calcium-rich formulas like ours.
2. Avoids Calcium Precipitation: Potassium hydroxide can cause calcium to fall out of solution, which isn't harmful but can result in sediment. Potassium carbonate doesn't have this issue.
3. Long-Term Efficacy: It maintains the balance necessary for optimal plant growth, ensuring long-term effectiveness of the nutrient solution.



BIOMEGA[®]'s TRICHFECTA[®] FULL SET: Developed by Dr. Luther Thomas Ph.D.

BIOMEGA[®]'s nutrient concentrates represent the pinnacle in botanical nutrition science. Dr. Thomas employed the disciplines of *microbiology, enzymology, organic and inorganic chemistry, and biogeochemical chemistry* to

perfect his protocols.

With its semi-organic Bioponic™ formulation, made from *the finest lab and food grade ingredients sourced in Australia*, **BIOMEGA[®]'s TRICHFECTA[®] standalone Bioponic™ nutrient program is designed to provide all the necessary elements for your plants to thrive.**

BIOMEGA[®]'s Bioponic™ technology eliminates secondary metabolic deficiencies, which can result in tasteless, odourless plants that are more susceptible to insect, fungal, and bacterial attacks. *It provides accurate supplementation for primary and secondary plant processes*, including the Carbohydrate Metabolism, Aromatic Metabolism, Phenolic Metabolism, Transmission Reaction, Flavonoid Production, Purine Metabolism, Pyrimidine Metabolism, Biosynthesis Pathway, and Alkaloid Pathway – *to not only outperform the rest but also restore vigour to 'tired lines' by repairing biogenetic pathways crop after crop.*

BIOMEGA[®]'s TRICHFECTA[®] line is designed to simplify your growing experience and reduce your workload. *Unlike other false bio-systems and their recommended clutter of nonsensical bio-stimulants*, BIOMEGA[®]'s TRICHFECTA[®] concentrates demonstrate the **synergistic science of Dr. Thomas' technology for an outcome much greater than its quality ingredients.**

You won't need to add any additives – everything you need is in the bottle; it works better that way. Bioponic™ formulations eliminate unnecessary and counterproductive organic clutter, *providing hydroponic precision with the benefits of organic chemistry*, **keeping it clean and free of organic build up in tanks and reservoirs.**

With its **pH Ready™ technology**, say goodbye to the headache of constantly adjusting pH, if your source water is close to neutral (7.0), **you can be sure that the pH of the nutrient solution is within range, keeping all nutrients constantly available to the crop.**

Say goodbye to the clutter of multiple bottles of additives and embrace the simplicity and effectiveness of BIOMEGA[®]'s TRICHFECTA[®] Bioponic™ nutrient system– BIOMEGA[®] - From Beginning to End™

Learn more about Dr. Luther Thomas and his contributions to the hydroponics industry by visiting:

www.biomeganutrients.com.au

TRICHFECTA[®]+

PART DESCRIPTIONS:

BiOMEGA®'s TRiCHFECTA+® - PART A – GROW: *Developed by Dr. Luther Thomas Ph.D.*

Introducing BiOMEGA®'s TRiCHFECTA+® - PART A - GROW concentrate, a vital component of our advanced Bioponic™ system. **Designed to be used alongside the complete TRiCHFECTA+® range (Parts B/C/+)**, our GROW concentrate *eliminates the need for additional additives*, providing a comprehensive and self-sufficient nutrient solution.

Our cutting-edge Bioponic™ technology sets our GROW concentrate apart from the rest. Developed by Dr. Luther Thomas, Ph.D., **our proprietary blend of Bioponic™ organic precursors enhances nitrogen assimilation, root development, and respiration, maximizing the potential of your plants.** This precise blend ensures *efficient uptake and utilisation of nitrogen, resulting in accelerated growth rates, vibrant foliage, and increased nutrient absorption.* Additionally, the organic precursors stimulate root development, creating robust root systems that optimize nutrient and water absorption, leading to stronger, more resilient plants.

Our GROW concentrate contains high levels of nitrogen and calcium, two essential elements for plant growth. Abundant nitrogen fuels vigorous vegetative growth, promotes lush foliage, and enhances overall plant vigour, *while ample calcium supports structural integrity, disease resistance, and nutrient transport within the plants.* With our nutrient solution's generous supply of calcium, **there's no need for additional calcium additives, simplifying your nutrient regimen.**

In addition to nitrogen and calcium, **our GROW concentrate is enriched with a comprehensive range of B vitamins, each playing a vital role in supporting the health and resilience of your BiOMEGA® grown crop.** From stimulating root growth to enhancing chlorophyll synthesis, facilitating enzymatic reactions to promoting DNA synthesis, *our B vitamins contribute to robust plant metabolism, healthy leaf development, nutrient uptake, and overall vitality.*

pH Ready™ Technology: Our GROW concentrate is equipped with our pH Ready™ technology, ensuring the nutrient solution stays within the optimal pH range for your plants. This advanced system maintains the right pH balance, reducing the need for frequent adjustments. *With our pH Ready™ technology, you can focus more on growing and less on pH management,* ensuring your plants consistently receive the nutrients they need for optimal health and growth. Moreover, **our nutrient solution is free from synthetic plant growth regulators (PGRs)**, guaranteeing a natural and sustainable approach to hydroponic gardening.

Versatile and compatible, **our GROW concentrate is suitable for all types of hydroponic and soil systems**, providing flexibility for your preferred growing method. *Whether you're an experienced hydroponics enthusiast or exploring soil-based cultivation, our nutrient solution delivers outstanding performance and ease of use.*

Amplify your plant's potential with BiOMEGA®'s TRiCHFECTA+® - PART A - GROW concentrate. Experience the benefits of *advanced Bioponic™ technology*, an abundance of essential nutrients, and a comprehensive blend of B vitamins. Grow with confidence, knowing that your plants receive everything they need for vigorous growth, resilience, and exceptional results. *BiOMEGA® - From Beginning to End™*

BiOMEGA®'s TRiCHFECTA+® - PART B – BLOOM & MICRO: *Developed by Dr. Luther Thomas Ph.D.*

Introducing BiOMEGA®'s TRiCHFECTA+® - PART B – BLOOM & MICRO concentrate, a cutting-edge formulation crafted to optimise plant nutrition in hydroponics. **Designed to be used alongside the complete TRiCHFECTA+® range (Parts A/C/+)** Developed by Dr. Luther Thomas, Ph.D., this concentrate is a key component of our TRiCHFECTA+® range, *a stand-alone Bioponic™ system with no need for additives.*

Our innovative Bioponic™ technology sets our BLOOM & MICRO concentrate apart. It features a *proprietary Bioponic™ blend of organic amino acids*, that serve as the building blocks of this concentrate. **These amino acids play a crucial role in protein synthesis, stimulating diverse functions such as enzyme catalysis, structural support, molecular transport, and immune responses in plants.**

Enzymes are vital in hydroponics, facilitating essential biochemical reactions for plant growth. **Our concentrate harnesses the power of enzymes in various ways, including nutrient breakdown and availability, nutrient conversion and transformation, root zone health and nutrient cycling, defence against pathogens, and respiration and energy production.**

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In addition to its unique amino acid blend, **our BLOOM & MICRO concentrate contains a comprehensive trace element profile.** *It includes essential micronutrients such as iron, manganese, zinc, copper, boron, molybdenum, nickel, and chlorine.* These trace elements are crucial for plant health and contribute to vital metabolic processes.

During the flowering and fruiting stages, our concentrate provides optimal plant nutrition. It offers high levels of phosphorus and potassium, along with abundant magnesium and sulphur. **Phosphorus supports energy transfer, photosynthesis, and the synthesis of nucleic acids, proteins, and enzymes. Potassium regulates water uptake, enzyme activation, and enhances fruit and flower quality.** Magnesium is essential for photosynthesis and enzyme activation, **while sulphur contributes to terpene production and overall plant development.**

pH Ready™ Technology: Our BLOOM & MICRO concentrate is equipped with our pH Ready™ technology, ensuring the nutrient solution stays within the optimal pH range for your plants. This advanced system maintains the right pH balance, reducing the need for frequent adjustments. With our pH Ready™ technology, you can focus more on growing and less on pH management, ensuring your plants consistently receive the nutrients they need for optimal health and growth.

Our fully chelated formula maximises nutrient absorption by preventing chemical lockout and extending the useful life of your nutrient solution resulting in less waste and cost to you per crop. *Proper chelation also produces healthier and more vibrant plants.*

With a focus on organic and sustainable practices, **our formulations are free from synthetic or artificial plant growth regulators (PGRs).** *We believe in harnessing the natural potential of your plants without external interference, promoting a more organic approach to hydroponic gardening.*

Versatility is a key feature of our BLOOM & MICRO concentrate. **It is compatible with all hydroponic systems, including rockwool, water culture systems (flood and drain, DWC) and run-to-waste coco coir systems.** *It is equally effective in traditional soil-based systems, providing flexibility to suit your preferred growing method.*

Experience the power of BIOMEGA®'s TRICHFECTA+® - PART B – BLOOM & MICRO concentrate and unlock the full potential of your hydroponic or soil-based cultivation. Maximise nutrient uptake, promote healthy plant growth, and achieve bountiful harvests with our advanced nutrient solution – *BIOMEGA® - From Beginning to End™*

BIOMEGA®'s TRICHFECTA+® - PART C – EARTH & SEA ENZYMES™: Developed by Dr. Luther Thomas Ph.D.

Introducing BIOMEGA®'s TRICHFECTA+® - PART C – EARTH & SEA ENZYMES™ concentrate, **a cutting-edge solution that revolutionises hydroponic nutrition and can be used with any nutrient program.** Developed by Dr. Luther Thomas, Ph.D., *this concentrate combines the power of organic acids & enzymes, to optimise plant growth and maximise yields.*

One key feature of our EARTH & SEA ENZYMES™ concentrate is its ability to chelate inorganic elements in the hydroponic solution. Organic acids form stable complexes with essential nutrients, preventing them from becoming immobilised or unavailable to the plants' roots. *This enhances nutrient absorption and maximises nutrient uptake efficiency, resulting in healthier and more vibrant plants.*

Furthermore, the presence of organic acids promotes phloem loading, the process by which nutrients and sugars are efficiently transported throughout the plant via the phloem vessels. This ensures the distribution of vital elements to various plant tissues, supporting overall growth and development.

In addition, our concentrate increases the brix content in plant tissue, enriching it with higher concentrations of sugars and soluble compounds. *This increase in brix content leads to improved flavour, aroma, and terpene production, enhancing the sensory experience and quality of the final harvest.*

The synergistic effects of chelating inorganic elements, promoting phloem loading, and increasing brix content result in heavier yields and more abundant harvests. *Our concentrate optimises nutrient uptake, supports efficient nutrient transport, and enhances the production of valuable compounds, creating an ideal environment for plant growth.*

Moreover, the enzymes present in our concentrate act as pH buffers, ensuring the stability of the hydroponic nutrient solution. They regulate the release and uptake of hydrogen ions, maintaining the pH within the optimal range for nutrient availability and uptake. *This stable pH environment promotes healthy plant growth and eliminates the risk of pH-related nutrient imbalances or deficiencies.*

TRICHFECTA+®

With BiOMEGA®'s TRiCHFECTA+® - PART C – EARTH & SEA ENZYMES™ concentrate, you can expect improved nutrient absorption, efficient nutrient transport, enhanced flavour and aroma, and increased yields. Our PGR-free formula offers a natural and sustainable approach to hydroponic gardening, while its versatility makes it suitable for all types of hydroponic and soil-based systems.

Experience the power of organic acids & enzymes in our EARTH & SEA ENZYMES™ concentrate and witness the transformative effects on your hydroponic cultivation. Unlock the full potential of your plants and enjoy bountiful, high-quality harvests – BiOMEGA® - From Beginning to End™

BiOMEGA®'s TRiCHFECTA+® - PART + – BLOOM BOOST FORMULA™: Developed by Dr. Luther Thomas Ph.D.

Introducing BiOMEGA®'s TRiCHFECTA+® PART + BLOOM BOOST FORMULA™, a **concentrated bloom boost formula that can be used with any nutrient program**. Designed to enhance the flowering phase of plant growth and maximise yields, *this formula is an essential component of our stand-alone Bioponic™ system, which requires no additives when used in conjunction with the complete TRiCHFECTA+® range (Parts A/B/C).*

Our BLOOM BOOST FORMULA™ contains a rich blend of metabolites and precursors that promote heavy stacking, optimised genetic taste and potency, and a professional finish. Let's delve into the key components and their benefits:

Humic & Fulvic acids: Derived from decomposed plant matter, these organic compounds enhance nutrient uptake, improve substrate structure, and promote overall plant health. **They contribute to heavy flowering by increasing nutrient availability, improving nutrient utilisation, and supporting root development.**

Enzymes: Acting as catalysts in biochemical reactions, enzymes optimise nutrient uptake efficiency, break down complex compounds for better absorption, and improve plant vigour. **They support robust flower development by facilitating key metabolic actions during the flowering phase.**

Kelp: Derived from seaweed, kelp extracts contain natural plant hormones such as cytokinin's, auxins, and gibberellins. These hormones regulate growth, stimulate cell division, and promote flower development. **Kelp also provides essential micronutrients and trace elements necessary for healthy plant growth, heavy flowering, and overall vitality.**

Trace elements and organic silica: These complementary components play vital roles in enzymatic reactions, photosynthesis, and hormone synthesis, essential for flower development. **Organic silica strengthens plant structure, enhancing resistance to pests and diseases and leads to improved flower formation and quality.**

By incorporating these metabolites, **our formula corrects deficiencies, complements bio-stimulants, and chelates mineral salts, providing plants with everything they need to flourish during the flowering phase.**

Our BLOOM BOOST FORMULA™ also stimulates resin and terpene production while preserving the natural genetically determined taste of your chosen strains. Resins contain cannabinoids and terpenes and contribute to the potency and aroma of your flowers. *The metabolites in our formula work synergistically to enhance resin synthesis and stimulate terpene production, resulting in potent and aromatic blooms.*

Boosted PK levels in our formula provide plants with essential nutrients for large, abundant yields. Phosphorus and potassium stimulate flowering, enhance nutrient transport, support metabolic activity, strengthen plant structure, and promote optimal flower size and density. **By optimising these essential nutrients, our formula ensures impressive yields and robust plant development.**

In addition, our chelated formula enhances nutrient absorption and maximises uptake efficiency to promote a vigorous and lush flowering response. We take pride in offering a **PGR-free nutrient solution**, harnessing the natural potential of your plants without synthetic growth regulators for a more *organic and sustainable approach.*

Our BLOOM BOOST FORMULA™ is compatible with various hydroponic systems and traditional soil-based setups, providing versatility to suit your preferred growing method.

Unlock the potential of your plants with BiOMEGA®'s TRiCHFECTA+® - PART + – BLOOM BOOST FORMULA™ and experience heavy flowering, impressive yields, and naturally determined taste – BiOMEGA® - From Beginning to End™

TRiCHFECTA+®



BiOMEGA®'s TRiCHFECTA+® VEG SET: Developed by Dr. Luther Thomas Ph.D.

BiOMEGA®'s nutrient concentrates represent the pinnacle in botanical nutrition science. *Dr. Thomas employed the disciplines of microbiology, enzymology, organic and inorganic chemistry, and biogeochemical chemistry to perfect his*

protocols.

With its semi-organic Bioponic formulation, made from the finest lab and food grade ingredients sourced in Australia, BiOMEGA®'s TRiCHFECTA+® standalone Bioponic™ nutrient program is designed to provide all the necessary elements for your plants to thrive.

BiOMEGA®'s Bioponic™ technology eliminates secondary metabolic deficiencies, which can result in tasteless, odourless plants that are more susceptible to insect, fungal, and bacterial attacks. It provides accurate supplementation for primary and secondary plant processes, including the Carbohydrate Metabolism, Aromatic Metabolism, Phenolic Metabolism, Transmission Reaction, Flavonoid Production, Purine Metabolism, Pyrimidine Metabolism, Biosynthesis Pathway, and Alkaloid Pathway – *to not only outperform the rest but also restore vigour to 'tired lines' by repairing biogenetic pathways crop after crop.*

BiOMEGA®'s TRiCHFECTA+® line is designed to simplify your growing experience and reduce your workload. Unlike other false bio-systems and their recommended clutter of nonsensical bio-stimulants, *BiOMEGA®'s TRiCHFECTA+® concentrates demonstrate the synergistic science of Dr. Thomas' technology for an outcome much greater than its quality ingredients.*

You won't need to add any additives – everything you need is in the bottle; it works better that way. Bioponic formulations eliminate unnecessary and counterproductive organic clutter, providing hydroponic precision with the benefits of organic chemistry, **keeping it clean and free of organic build up in tanks and reservoirs.**

With its pH Ready™ technology, say goodbye to the headache of constantly adjusting pH, if your source water is close to neutral (7.0), you can be sure that the pH of the nutrient solution is within range, *keeping all nutrients constantly available to the crop.*

Say goodbye to the clutter of multiple bottles of additives and embrace the simplicity and effectiveness of BiOMEGA®'s TRiCHFECTA+® Bioponic™ nutrient system– BiOMEGA® - From Beginning to End™

Learn more about Dr. Luther Thomas and his contributions to the hydroponics industry by visiting:
www.biomeganutrients.com.au

PART DESCRIPTIONS:

BiOMEGA®'s TRiCHFECTA+® - PART A – GROW: Developed by Dr. Luther Thomas Ph.D.

Introducing BiOMEGA®'s TRiCHFECTA+® - PART A - GROW concentrate, **a vital component of our advanced Bioponic™ system. Designed to be used alongside the complete TRiCHFECTA+® range (Parts B/C/+),** our GROW concentrate eliminates the need for additional additives, providing a comprehensive and self-sufficient nutrient solution.

Our cutting-edge Bioponic™ technology sets our GROW concentrate apart from the rest. Developed by Dr. Luther Thomas, Ph.D., **our proprietary blend of Bioponic™ organic precursors enhances nitrogen assimilation, root development, and respiration, maximizing the potential of your plants.** This precise blend ensures *efficient uptake and utilisation of nitrogen, resulting in accelerated growth rates,* vibrant foliage, and increased nutrient absorption. Additionally, the organic precursors stimulate root development, creating robust root systems that optimize nutrient and water absorption, leading to stronger, more resilient plants.

Our GROW concentrate contains high levels of nitrogen and calcium, two essential elements for plant growth. **Abundant nitrogen fuels vigorous vegetative growth, promotes lush foliage, and enhances overall plant vigour, while ample calcium supports structural integrity, disease resistance, and nutrient transport within the plants.** With our nutrient solution's **generous supply of calcium, there's no need for additional calcium additives, simplifying your nutrient regimen.**

In addition to nitrogen and calcium, **our GROW concentrate is enriched with a comprehensive range of B vitamins,** each playing a vital role in supporting the health and resilience of your BiOMEGA® grown crop. **From stimulating root growth to**

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enhancing chlorophyll synthesis, facilitating enzymatic reactions to promoting DNA synthesis, our B vitamins contribute to robust plant metabolism, healthy leaf development, nutrient uptake, and overall vitality.

pH Ready™ Technology: Our GROW concentrate is equipped with our pH Ready™ technology, ensuring the nutrient solution stays within the optimal pH range for your plants. This advanced system maintains the right pH balance, reducing the need for frequent adjustments. **With our pH Ready™ technology, you can focus more on growing and less on pH management,** ensuring your plants consistently receive the nutrients they need for optimal health and growth. **Moreover, our nutrient solution is free from synthetic plant growth regulators (PGRs),** guaranteeing a natural and sustainable approach to hydroponic gardening.

Versatile and compatible, our GROW concentrate is suitable for all types of hydroponic and soil systems, providing flexibility for your preferred growing method. Whether you're an experienced hydroponics enthusiast or exploring soil-based cultivation, our nutrient solution delivers outstanding performance and ease of use.

Amplify your plant's potential with BiOMEGA®'s TRiCHFECTA+® - PART A - GROW concentrate. **Experience the benefits of advanced Bioponic™ technology, an abundance of essential nutrients, and a comprehensive blend of B vitamins.** Grow with confidence, knowing that your plants receive everything they need for vigorous growth, resilience, and exceptional results. *BiOMEGA® - From Beginning to End™*

BiOMEGA®'s TRiCHFECTA+® - PART B – BLOOM & MICRO: Developed by Dr. Luther Thomas Ph.D.

Introducing BiOMEGA®'s TRiCHFECTA+® - PART B – BLOOM & MICRO concentrate, a cutting-edge formulation designed to optimise plant nutrition in hydroponics. **Designed to be used alongside the complete TRiCHFECTA+® range (Parts A/C/+).** Developed by Dr. Luther Thomas, Ph.D., this concentrate is a key component of our TRiCHFECTA+® range, **a stand-alone Bioponic™ program with no need for additives.**

Our innovative Bioponic™ technology sets our BLOOM & MICRO concentrate apart. **It features a proprietary Bioponic™ blend of organic amino acids, that serve as the building blocks of this concentrate.** These amino acids play a crucial role in protein synthesis, stimulating diverse functions such as enzyme catalysis, structural support, molecular transport, and immune responses in plants.

Enzymes are vital in hydroponics, facilitating essential biochemical reactions for plant growth. **Our concentrate harnesses the power of enzymes in various ways, including nutrient breakdown and availability, nutrient conversion and transformation, root zone health and nutrient cycling, defence against pathogens, and respiration and energy production.**

In addition to its unique amino acid blend, our BLOOM & MICRO concentrate contains a comprehensive trace element profile. It includes essential micronutrients such as *iron, manganese, zinc, copper, boron, molybdenum, nickel, and chlorine.* These trace elements are crucial for plant health and contribute to vital metabolic processes.

During the flowering and fruiting stages, our concentrate provides optimal plant nutrition. **It offers high levels of phosphorus and potassium, along with abundant magnesium and sulphur.** Phosphorus supports energy transfer, photosynthesis, and the synthesis of nucleic acids, proteins, and enzymes. Potassium regulates water uptake, enzyme activation, and enhances fruit and flower quality. **Magnesium is essential for photosynthesis and enzyme activation, while sulphur contributes to terpene production and overall plant development.**

pH Ready™ Technology: Our BLOOM & MICRO concentrate is equipped with our pH Ready™ technology, ensuring the nutrient solution stays within the optimal pH range for your plants. This advanced system maintains the right pH balance, reducing the need for frequent adjustments. **With our pH Ready™ technology, you can focus more on growing and less on pH management,** ensuring your plants consistently receive the nutrients they need for optimal health and growth.

Our fully chelated formula maximises nutrient absorption by preventing chemical lockout and extending the useful life of your nutrient solution resulting in less waste and cost to you per crop. Proper chelation also produces healthier and more vibrant plants.

With a focus on organic and sustainable practices, our formulations are free from synthetic or artificial plant growth regulators (PGRs). We believe in harnessing the natural potential of your plants without external interference, promoting a more organic approach to hydroponic gardening.

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Versatility is a key feature of our BLOOM & MICRO concentrate. **It is compatible with all hydroponic systems, including rockwool, water culture systems (flood and drain, DWC) and run-to-waste coco coir systems. It is equally effective in traditional soil-based systems,** providing flexibility to suit your preferred growing method.

Experience the power of BiOMEGA®'s TRiCHFECTA+® - PART B – BLOOM & MICRO concentrate and unlock the full potential of your hydroponic or soil-based cultivation. **Maximise nutrient uptake, promote healthy plant growth, and achieve bountiful harvests** with our advanced nutrient solution – *BiOMEGA® - From Beginning to End™*

BiOMEGA®'s TRiCHFECTA+® - PART C – EARTH & SEA ENZYMES™: Developed by Dr. Luther Thomas Ph.D.

Introducing BiOMEGA®'s TRiCHFECTA+® - PART C – EARTH & SEA ENZYMES concentrate, **a cutting-edge solution that revolutionises hydroponic nutrition and can be used with any nutrient program.** Developed by Dr. Luther Thomas, Ph.D., this concentrate **combines the power of organic acids & enzymes, to optimise plant growth and maximise yields.**

One key feature of our EARTH & SEA ENZYMES™ concentrate is its ability to chelate inorganic elements in the hydroponic solution. Organic acids form stable complexes with essential nutrients, preventing them from becoming immobilised or unavailable to the plants' roots. *This enhances nutrient absorption and maximises nutrient uptake efficiency, resulting in healthier and more vibrant plants.*

Furthermore, the presence of organic acids promotes phloem loading, the process by which nutrients and sugars are efficiently transported throughout the plant via the phloem vessels. This ensures the distribution of vital elements to various plant tissues, supporting overall growth and development.

In addition, our concentrate increases the brix content in plant tissue, enriching it with higher concentrations of sugars and soluble compounds. This increase in brix content leads to **improved flavour, aroma, and terpene production, enhancing the sensory experience and quality of the final harvest.**

The synergistic effects of chelating inorganic elements, promoting phloem loading, and increasing brix content result in heavier yields and more abundant harvests. Our concentrate optimises nutrient uptake, supports efficient nutrient transport, and enhances the production of valuable compounds, *creating an ideal environment for plant growth.*

Moreover, the enzymes present in our concentrate act as pH buffers, ensuring the stability of the hydroponic nutrient solution. They regulate the release and uptake of hydrogen ions, maintaining the pH within the optimal range for nutrient availability and uptake. **This stable pH environment promotes healthy plant growth and eliminates the risk of pH-related nutrient imbalances or deficiencies.**

With BiOMEGA®'s TRiCHFECTA+® - PART C – EARTH & SEA ENZYMES concentrate, you can expect improved nutrient absorption, efficient nutrient transport, enhanced flavour and aroma, and increased yields. **Our PGR-free formula offers a natural and sustainable approach to hydroponic gardening, while its versatility makes it suitable for all types of hydroponic and soil-based systems.**

Experience the power of organic acids & enzymes in our EARTH & SEA ENZYMES™ concentrate and witness the transformative effects on your hydroponic cultivation. Unlock the full potential of your plants and enjoy bountiful, high-quality harvests – *BiOMEGA® - From Beginning to End™*

TRiCHFECTA+®



BiOMEGA®'s TRiCHFECTA+® - PART C – EARTH & SEA ENZYMES™: Developed by Dr. Luther Thomas Ph.D.

BiOMEGA®'s TRiCHFECTA+® - PART C – EARTH & SEA ENZYMES™ concentrate **can be used as an additive for any nutrient program.** For best results, use in conjunction with the complete TRiCHFECTA+® range (Parts A/B/+) to provide a stand-alone Bioponic™ system, *one that requires NO additives.*

Our EARTH & SEA ENZYMES™ concentrate was the pioneer of bio-stimulant based hydroponic technology over 30 years ago and is still on the forefront of organic technology. Developed by Dr. Luther Thomas, Ph.D. EARTH & SEA ENZYMES™ **contain a blend of organic acids & enzymes in a ratio that conforms to Dr. Thomas' proprietary Bioponic™ protocols.**

Our EARTH & SEA ENZYMES™ concentrate completes your cultivation equation and **complements all secondary metabolic systems in your plants.** All plants have primary metabolic systems responsible for photosynthesis and basic life functions, and secondary systems responsible for the higher life functions of taste, nutrient value, vigour, yield, and disease resistance – the very qualities we value and for which we grow. Secondary metabolic deficiencies are characterised by tasteless produce with low aroma and terpene values, and a general susceptibility to disease. **We nourish and stimulate these systems with Dr. Thomas' proprietary blends of organic acids and enzymes.** This technology also **chelates your nutrient solution for maximal bioavailability** to support your plants' and accelerated functions.

Chelation optimises plant nutrition in hydroponic systems, and a key component of its effectiveness lies in **the power of organic acids to chelate inorganic elements in the hydroponic solution.** Chelation is a process in which organic acids bind to inorganic nutrients, such as iron, manganese, zinc, and copper, forming stable complexes.

These complexes prevent inorganic elements from becoming immobilised or chemically unavailable to plants' roots. When inorganic elements are chelated by organic acids, **they remain soluble and in a bioavailable form. This allows plants' roots to efficiently absorb all availability nutrients.**

Furthermore, the abundant organic acids in our EARTH & SEA ENZYMES™ concentrate **offer additional benefits by promoting phloem loading,** a vital process for aggressive nutrient transport in plants. **Phloem loading refers to the movement of nutrients and sugars from the source tissues (such as leaves) to the sink tissues (such as developing fruits or roots) through the phloem vessels.**

Organic acids play a significant role in facilitating phloem loading by increasing the osmotic potential within the phloem sieve tubes. These acids contribute to the creation of a concentration gradient that drives the movement of nutrients and sugars into the phloem. This active loading process allows for efficient distribution of these essential compounds to various plant tissues, supporting vigorous growth and development.

Phloem loading is a response to an optimised metabolic environment where primary and secondary systems can exceed typical limitations and form extensive root systems that interact with your substrate and support lush and fast growth rates. The high carbohydrate content and plentiful metabolites characteristic of this condition **result in significant improvements in reproductive structures,** such as flowers and fruits, faster bud and fruit-set, richer flavours and aromas, and superior nutritional values and potency.

By promoting phloem loading, our EARTH & SEA ENZYMES™ concentrate **guarantees an overplus in the brix content of your plants' tissues.** Brix is a measurement of the soluble solids present in plant sap, primarily consisting of sugars. **Optimal brix values result in sweeter fruits, vibrant flowers, and the heaviest most potent herbs.**

High brix values also directly correlate with richer aromatics. Terpenes, flavonoids, and polyphenols surpass conventional standards in high brix cultivation. Terpenes are organic compounds responsible for the distinct aromas and flavours found in many herbs, flowers, and fruits. By stimulating key secondary metabolic systems, our formulation supports your plants' ability to deliver more robust and diverse range of aromas and flavours in your final harvest.

In addition to superior chelation, promoting phloem loading, and increasing brix content, the enzymes present in our EARTH & SEA ENZYMES™ concentrate **also function as effective pH buffers to stabilise pH in even the most dynamic hydroponic solution.** By minimising pH drift, our formulation ensures optimal nutrient uptake to prevent nutrient deficiencies and promote maximal metabolic action.

Our EARTH & SEA ENZYMES™ concentrate **buffers pH by regulating the release and uptake of hydrogen ions (H+) in the nutrient solution.** Our proprietary enzymes formulation catalyses chemical reactions involved in pH regulation,

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helping to maintain a stable pH environment. **When the pH of the nutrient solution deviates from the optimal range our buffers respond by either releasing or absorbing hydrogen ions, depending on the needs of the system.** This buffering action helps prevent drastic pH fluctuations, keeping the pH within the desired range.

Versatile Compatibility: EARTH & SEA ENZYMES™ concentrate is **suitable for all types of hydroponic systems, including water culture systems (flood and drain, DWC) and run to waste coco coir systems.** Furthermore, it is equally effective in **traditional soil-based systems**, offering flexibility to suit your preferred growing method. Whether you're a seasoned hydroponics enthusiast or experimenting with soil-based cultivation, our nutrient solution is compatible with your chosen setup.

SUMMARY:

BiOMEGA®'s TRiCHFECTA+® - PART C – EARTH & SEA ENZYMES™

Introducing BiOMEGA®'s TRiCHFECTA+® - PART C – EARTH & SEA ENZYMES™ concentrate, a cutting-edge solution that revolutionises hydroponic nutrition. Developed by Dr. Luther Thomas, Ph.D., this concentrate **combines the power of organic acids & enzymes, to optimise plant growth and maximise yields.**

One key feature of our EARTH & SEA ENZYMES™ concentrate is its ability to **chelate inorganic elements in the hydroponic solution.** Organic acids form stable complexes with essential nutrients, preventing them from becoming immobilised or unavailable to the plants' roots. **This enhances nutrient absorption and maximises nutrient uptake efficiency, resulting in healthier and more vibrant plants.**

Furthermore, the presence of **organic acids promotes phloem loading**, the process by which nutrients and sugars are efficiently transported throughout the plant via the phloem vessels. This ensures the distribution of vital elements to various plant tissues, supporting overall growth and development.

In addition, our concentrate **increases the brix content in plant tissue**, enriching it with higher concentrations of sugars and soluble compounds. **This increase in brix content leads to improved flavour, aroma, and terpene production, enhancing the sensory experience and quality of the final harvest.**

The synergistic effects of chelating inorganic elements, promoting phloem loading, and increasing brix content result in heavier yields and more abundant harvests. **Our concentrate optimises nutrient uptake, supports efficient nutrient transport, and enhances the production of valuable compounds, creating an ideal environment for plant growth.**

Moreover, **the enzymes present in our concentrate act as pH buffers, ensuring the stability of the hydroponic nutrient solution.** They regulate the release and uptake of hydrogen ions, **maintaining the pH within the optimal range for nutrient availability and uptake.** This stable pH environment promotes healthy plant growth and eliminates the risk of pH-related nutrient imbalances or deficiencies.

With BiOMEGA®'s TRiCHFECTA+® - PART C – EARTH & SEA ENZYMES™ concentrate, **you can expect improved nutrient absorption, efficient nutrient transport, enhanced flavour and aroma, and increased yields.** Our **PGR-free** formula offers a natural and sustainable approach to hydroponic gardening, while its versatility **makes it suitable for all types of hydroponic and soil-based systems.**

Experience the power of organic acids & enzymes in our EARTH & SEA ENZYMES™ concentrate and **witness the transformative effects on your hydroponic cultivation.** Unlock the full potential of your plants and enjoy bountiful, high-quality harvests – *BiOMEGA® - From Beginning to End™*



BiOMEGA®'s TRiCHFECTA+® - PART + – BLOOM BOOST FORMULA™: Developed by Dr. Luther Thomas Ph.D.

BiOMEGA®'s TRiCHFECTA+® - PART + – BLOOM BOOST FORMULA™ concentrate **can be used as an additive for any nutrient program.** For best results, use in conjunction with the complete TRiCHFECTA+® range (Parts A/B/C) to provide a stand-alone Bioponic™ system, *one that requires NO additives.*

Our BLOOM BOOST FORMULA™ is specifically designed to maximise the flowering phase of plant growth. It promotes heavy stacking by supplying the organic and inorganic components necessary for a generous yield and professional finish. It **contains an abundance of metabolites and precursors that complement all nutrient brands to assure optimal flower development and maximal yields.**

TRiCHFECTA+®

We begin with Humic & Fulvic acids. Humic acids are organic compounds derived from decomposed plant matter, and they play a vital role in nutrient uptake, and improve soil structure. Fulvic acids are smaller molecular weight compounds that facilitate nutrient absorption and transport within plants. Together, **Humic & Fulvic acids contribute to increased nutrient synthesis, improved nutrient availability, and greater root development to support heavy flowering.**

We next supply specific enzymes in our BLOOM BOOST FORMULA™. Enzymes are protein molecules that act as catalysts in biochemical reactions and metabolic processes within plants. **They also chelate minerals and prevent nutrient lockout** while breaking down complex compounds into simpler forms that are easily assimilated by plants. By including enzymes in our formula, we ensure that plants have the necessary tools to **efficiently convert nutrients into energy and biomass during the flowering phase.**

Kelp is another valuable metabolite present in our BLOOM BOOST FORMULA™. Kelp extracts are derived from seaweed and contain a wide range of beneficial compounds such as cytokinin's, auxins, and gibberellins. **These natural plant hormones help regulate growth, stimulate cell division, and promote flower set and development.** Kelp extracts also contain essential micronutrients and trace elements that are necessary for vigorous plant growth. By incorporating kelp into our formula, we provide plants with a natural boost that encourages heavy flowering and overall plant vitality.

We fortify our BLOOM BOOST FORMULA™ with a **proprietary complex of trace elements and organic silica.** **Trace elements are essential micronutrients that plants require in small quantities for many metabolic functions.** They play crucial roles in enzyme activation, photosynthesis, and hormone synthesis, all of which are critical for optimal flower development. **Organic silica strengthens cell walls throughout, from vascular systems to support structures, and enhances resistance to pests and disease.**

Our BLOOM BOOST FORMULA™ delivers a result greater than its component parts and besides the benefits already listed, this formulation is engineered to deliver more – more weight, more terpenes, more flavour, and more resins.

Terpenes, which are responsible for the aromatic profiles and flavours of plants, are directly targeted by the metabolites in our BLOOM BOOST FORMULA™. The auxins abundant in our formula stimulate the biosynthesis of terpenes, leading to a more diverse and pronounced aroma in your flowers.

Heavy resin production is the finishing touch to a great grow. Resins contain many compounds besides cannabinoids and terpenes that contribute to the unique characteristics and effects of each strain. Polyphenols and flavonoids and a host of other compounds contribute to the quality of your harvest and these compounds flourish on our BLOOM BOOST FORMULA™. **Our complete organic enzymes profile boosts metabolic processes involved in resin synthesis, supporting the conversion of precursor compounds into resinous substances.** Plentiful cytokinin's and gibberellins act as signalling molecules and trigger your plants' natural defence mechanisms which result in increased resin production as a protective response.

Additionally, the complex of rare trace minerals in our BLOOM BOOST FORMULA™ plays a vital role in enzymatic reactions and metabolic pathways involved in resin biosynthesis. By providing the necessary micronutrients in balanced quantities, our formula ensures that your plants have optimal resources for resin production.

Importantly, our BLOOM BOOST FORMULA™ does not introduce any synthetic compounds that could alter the genetically determined growth patterns and taste of your plants. Instead, it harnesses your plants' natural abilities and nourishes these pathways and reactions for superior resin and terpene production. **This approach ensures that the resulting flavours and aromas are true representations of your plant's genetics, preserving the natural taste determined by its unique genetic makeup.**

Our BLOOM BOOST FORMULA™ stimulates resin and terpene production through the synergistic action of various metabolites. It promotes the biosynthesis of resinous substances, enhances terpene production, and supports heavy yields while respecting and preserving the natural genetically determined taste of the plants.

Of course, we haven't neglected the basics. Boosted PK (Phosphorus and Potassium) levels in our BLOOM BOOST FORMULA™ provide your plants with the essential macronutrients they need to achieve large and abundant yields.

Phosphorus (P) and Potassium (K) are two primary macronutrients that play essential roles in plant growth and development, particularly during the flowering phase. **Phosphorus is essential for energy transfer and storage, root development, and the synthesis of nucleic acids and proteins. Potassium is involved in numerous physiological processes, including enzyme activation, osmoregulation, and nutrient transport.** The high concentration of Phosphorus and Potassium in our formula deliver several benefits that contribute to larger yields:

TRICHFECTA[®]+

Flowering Stimulus: Higher PK levels provide a strong stimulus for flowering and reproductive development in plants. Phosphorus is known to promote flower initiation and bud formation, while Potassium supports overall plant health and vigour during the flowering phase. **This stimulus encourages the plants to allocate more energy and resources towards flower production, ultimately leading to increased yield potential.**

Enhanced Nutrient Transport: Potassium is involved in the regulation of water movement and nutrient transport within plants. By increasing PK levels, we facilitate the efficient uptake and distribution of other essential nutrients throughout the plant. This enhanced nutrient transport ensures that all the necessary elements for robust flower development and growth are readily available, maximising the plants' yield potential.

Increased Metabolic Activity: Both phosphorus and potassium are essential components of numerous metabolic actions in plants. Phosphorus is crucial for energy transfer and storage, which is vital to the synthesis of carbohydrates, proteins, and other compounds required for flower development. Potassium, on the other hand, activates numerous enzymes involved in photosynthesis and cellular metabolism.

Stronger Cell Walls and Structure: Phosphorus and potassium contribute to the formation and strength of cell walls in plants. Adequate levels of these nutrients promote cell division and elongation, leading to stronger stems, branches, and overall structural integrity. With stronger plant structure, the plants can better support the weight of larger, denser flowers without the risk of collapse or breakage, ensuring the integrity and quality of the yield.

Chelated Formula: **Our BLOOM BOOST FORMULA™ is fully chelated, ensuring that essential nutrients are readily available for your plants.** Chelation enhances nutrient absorption by preventing mineral lockout. This maximises nutrient uptake efficiency and stretches your dollar further in nutrient not wasted down the drain.

No PGRs (Plant Growth Regulators): We take pride in offering a PGR-free nutrient solution. Our BLOOM BOOST FORMULA™ concentrate does not contain any synthetic or artificial plant growth regulators. Instead, we believe in harnessing the natural potential of your plants without the interference of external growth stimulants. This ensures a more organic and sustainable approach to hydroponic gardening.

Versatile Compatibility: Our BLOOM BOOST FORMULA™ concentrate is **suited for all types of hydroponic systems, including rockwool, water culture systems (flood and drain, DWC) and run to waste coco coir systems. Furthermore, it is equally effective in traditional soil-based systems, offering flexibility to suit your preferred growing method.** Whether you're a seasoned hydroponics enthusiast or experimenting with soil-based cultivation, our nutrient solution is compatible with your chosen setup.

SUMMARY:

BIOMEGA®'s TRiCHFECTA+® - PART + – BLOOM BOOST FORMULA™

Introducing BIOMEGA®'s TRiCHFECTA+® PART + BLOOM BOOST FORMULA™, **a concentrated bloom boost formula that can be used with any nutrient program.** Designed to enhance the flowering phase of plant growth and maximise yields, **this formula is an essential component of our stand-alone Bioponic™ system, which requires no additives when used in conjunction with the complete TRiCHFECTA+® range (Parts A/B/C).**

Our BLOOM BOOST FORMULA™ **contains a rich blend of metabolites and precursors** that promote heavy stacking, optimised genetic taste and potency, and a professional finish. Let's delve into the key components and their benefits:

Humic & Fulvic acids: Derived from decomposed plant matter, these organic compounds enhance nutrient uptake, improve substrate structure, and promote overall plant health. **They contribute to heavy flowering by increasing nutrient availability, improving nutrient utilisation, and supporting root development.**

Enzymes: Acting as catalysts in biochemical reactions, enzymes optimise nutrient uptake efficiency, break down complex compounds for better absorption, and improve plant vigour. **They support robust flower development by facilitating key metabolic actions during the flowering phase.**

Kelp: Derived from seaweed, kelp extracts contain natural plant hormones such as cytokinin's, auxins, and gibberellins. **These hormones regulate growth, stimulate cell division, and promote flower development.** Kelp also provides essential micronutrients and trace elements necessary for healthy plant growth, heavy flowering, and overall vitality.

Trace elements and organic silica: These complementary components play vital roles in enzymatic reactions, photosynthesis, and hormone synthesis, essential for flower development. **Organic silica strengthens plant structure, enhancing resistance to pests and diseases and leads to improved flower formation and quality.**

TRiCHFECTA+®

By incorporating these metabolites, **our formula corrects deficiencies, complements bio-stimulants, and chelates mineral salts, providing plants with everything they need to flourish during the flowering phase.**

Our BLOOM BOOST FORMULA™ also stimulates resin and terpene production while preserving the natural genetically determined taste of your chosen strains. Resins contain cannabinoids and terpenes and contribute to the potency and aroma of your flowers. **The metabolites in our formula work synergistically to enhance resin synthesis and stimulate terpene production, resulting in potent and aromatic blooms.**

Boosted PK levels in our formula provide plants with essential nutrients for large, abundant yields. **Phosphorus and potassium stimulate flowering, enhance nutrient transport, support metabolic activity, strengthen plant structure,** and promote optimal flower size and density. By optimising these essential nutrients, our formula ensures impressive yields and robust plant development.

In addition, our chelated formula enhances nutrient absorption and maximises uptake efficiency to promote a vigorous and lush flowering response. **We take pride in offering a PGR-free nutrient solution, harnessing the natural potential of your plants without synthetic growth regulators for a more organic and sustainable approach.**

Our BLOOM BOOST FORMULA™ is compatible with various hydroponic systems and traditional soil-based setups, providing versatility to suit your preferred growing method.

Unlock the potential of your plants with BiOMEGA®'s TRiCHFECTA+® - PART + – BLOOM BOOST FORMULA™ and experience heavy flowering, impressive yields, and naturally determined taste – *BiOMEGA® - From Beginning to End®*

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TRiCHFECTA+®