fargro®

Augment

GENERATING NUTRIENT USE EFFICIENCY

Generating nutrient use efficiency

AUGMENT is a unique formulation for substrate grown crops. As modern horticulture evolves, the use of peat-based substrates to peat free alternatives has changed the way growers manage their crops and inputs. AUGMENT is not only designed to promote plant physiological responses but to also interact and influence the environment in which the plant grows. Designed to be easily applied via fertigation directly to the substrate fertigation nutrient inputs, or as stand-alone treatments.

AUGMENT's mixture of stabilised carbon in the form of humic and fulvic acids, in combination with amino acids, seaweed complex, and simple and complex sugars, forms a complete fertigation additive package. These compounds work to feed beneficial symbiotic rootzone biology, creating a thriving environment of nutrient releasing microbiology. Humic compounds create a peat mimic that encourages roots to explore substrates more extensively, increasing cation exchange capabilities, binding substrate particles and aiding water holding. Fulvic compounds chelate applied nutrients making them more available and easily taken up by the plant's roots, increasing nutrient use efficiencies. Additionally, amino acids stimulate plant root and top growth allowing them to fully utilise the range of nutrients now being taken up.

AUGMENT is high in Glutamic Acid (or Glutamate) which is one of the fundamental metabolites in the process of formation of vegetative tissue, protein synthesis, and chlorophyll synthesis. It is the building block of Glutamine, Arginine Proline, and several metabolic enzymes essential to plants. These processes increase increase chlorophyll concentration in the plant leading to a higher degree of photosynthesis. The combination of this and the biological rhizosphere stimulation and nutrient chelation effects of the high concentration of total humate acids leads to a total fertigation stock tank co-formulant designed to increase nutrient use efficiencies. Reducing the need for applied nutrients and the potential for salt accumulation in pots or bags. Ultimately resulting in a healthier more dynamic plant, better able to withstand pathogen attack and respond more effectively to nutrient, bio-stimulant and PPP inputs.

DESCRIPTION	W/W%
Humic extracts	50.0
as Fulvic acid	41.0
as Humic acid	0.0
Seaweed extracts Containing Amino acids, Mannitol, Fucoidans, Laminarins, Phenolics,Alginate acid, Glutamic acid	39.4

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Applying AUGMENT

AUGMENT should be the foundation of any integrated nutrition management plan when growing, applied as a co-formulant in stock tank mixes to reduce fertigation applied nutrients. Increasing nutrient use efficiencies, reducing fertiliser input costs and promoting a more biologically active rhizosphere. *Typical crops include ornamentals, protected edibles, soft fruit, top fruit, and vines. AUGMENT should be added in with every fertigation round at rates between 200-750ml per 100L of the stock solution, dosed at 1:100 (1%).*

CROP	COMMENTS
Peat free substrate ornamentals	750ml per 100L of stock solution dosed at 1:100 (1%)
Coir and rock wool substrate grown fruit crops	200ml per 100L of stock solution dosed at 1:100 (1%)
Soil grown fertigated top fruit	200ml per 100L of stock solution dosed at 1:100 (1%)
Soil grown fertigated vines	200ml per 100L of stock solution dosed at 1:100 (1%)

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GENERATING NUTRIENT USE EFFICIENCY

- Ideal treatment for peat free growing media/substrate
- Increases nutrient use efficiency
- Promotes new root growth
- Beneficial rhizosphere biology feed

AUGMENT is the cornerstone of an Integrated Nutrient Management (INM) approach, a stand-alone liquid formulation consisting of a concentrated seaweed base in combination with amino acids, with a range of bioactive carbon compounds alongside simple and complex sugars.

AUGMENT is a stock tank addition designed specifically for use via fertigation to increase nutrient use efficiencies, reducing fertiliser requirements, increasing beneficial rhizosphere biology interactions within any substrate.

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