



About Kelp Blue

Accelerating the shift to sustainability in agriculture and reviving coastal communities, by revolutionizing seaweed cultivation through planting vast kelp forests that rewild our oceans, boost biodiversity, and lock away carbon.



Technical Data Sheet

Description

StimBlue+ is a biostimulant made from 100% cultivated Giant Kelp (*Macrocystis Pyrifera*). Our green processing technology allows us to extract a very wide spectrum of beneficial elements for plant nutrition and soil health improvement.

The main components are **hydrolysed proteins, amino acids, organic acids, carbohydrates (e.g., Mannitol, Laminarin, Fucoidan, Alginates) and plant hormones (e.g., Auxins, Cytokinins, Gibberellins, Ethylene, Abscisic acid)**.

These components will act in synergy to stimulate the plant and up- or down-regulation of key components of crops' development, leading to higher yields, tighter interactions between plant and soil components and greater resistance to abiotic stresses.

StimBlue+ will make your crops and business stronger and healthier.

Key benefits of StimBlue+

- Increased plant germination and attachment;
- Root development, mass and length;
- Drought stress relief;
- Greater yield and advanced nutraceutical qualities.

Seaweed extract works on each phenological phase, from germination to maturation and post-harvest activities. StimBlue+ improves the soil food web's activities by enhancing synergies between micro-organisms and macro/micronutrients and their interaction with the environment, plants, and microbial/fungi community.

STIMBLUE+



Proximal Analysis





Elements	Test results on dry sample
Nitrogen	7.4 %(w/w)
Phosphorous	0.89 %(w/w)
Potassium	29.56 %(w/w)
Calcium	0.57 %(w/w)
Magnesium	0.90 %(w/w)
Sulfur	0.452 %(w/w)
Zinc	32 mg/kg
Boron	155 mg/kg
Manganese	70 mg/kg

Phytohormones	Test results on dry sample
Cytokines	15.3 %(w/w)
Auxins	13.4 %(w/w)

Particular Components	Test results on dry sample
Proteins	9.28 %(w/w)
Amino acids	18.79 %(w/w)
Ash	69.4 %(w/w)
Fats & Oils	0.02 %(w/w)
Mannitol	*11.8 %(w/w)
Fucoidan	*7.59 %(w/w)
Laminarin	*4.36 %(w/w)



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*Estimated analysis - Final results ready by 06/2024



STIMBLUE+



Content

100% Aqueous Concentrate
of Cultivated Macrocytis
Kelp.

Modus Operendi

360-degree approach

StimBlue+ stimulates molecular pathways and endogenous hormone production in plants, enhancing nutrient use efficiency, abiotic stress tolerance, and other biostimulant effects.

Unique chemical compounds abundantly present in StimBlue+ will induce "Molecular Priming" as a mechanism for inducing tolerance against abiotic and oxidative stresses in crop plants.

Phytohormones	Action on plant
Abscisic acid	Responsible for stress responses, through the prevention of cell division to ensure its survival in severe stresses.
Cytokines	Promoters for the formation and insertion of new cell walls and lateral root formation
Auxines	In charge of cell elongation and differentiation. Stimulate root initiation and cell elongation
Giberelin	Booster of seed germination by breaking seed dormancy, cell elongation and promote lateral root growth
Ethylene	Governor of development/senescence of flowers, leaves and fruits and stresses response.



STIMBLUE+

Special elements

Macrocystis Pyrifera contains special components beneficial for plants throughout the lifecycle, from seed germination to fruit development and senescence. These carbohydrates will elicit plant biostimulant activity, in particular:

Special components	Action on plant
Alginates and oligo-alginates	Stimulate growth, seed germination, and shoot elongation by enhancing nitrogen assimilation and basal metabolism;
Mannitol	Increases tolerance to hydric-, salt- and osmotic-stress by being a "compatible solute";
Fucoidan	Boosts natural defence and nutrient uptake thanks to its elicitor activity;
Laminarin	Strengthens plants' immune response system by modulating the antioxidant system of chloroplasts in situations of abiotic stresses.

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STIMBLUE+

Usage & Dosage

Recommendations

StimBlue+ is a soluble liquid seaweed fertilizer suitable for transplanting, foliar, and soil applications. Before the application, shake the bottle well.

We recommend treating the crops in the morning or evening to avoid intense solar radiation.

StimBlue+ works well with crops' existing nutritional programs and plant protection products thanks to its pH (4.0-4.8) and solubility degree.

Suggested Dosage

- Transplant / Foliar Application

For seedlings, before planting, dip seedling or soil soak with a solution of StimBlue+ 1l in 100l of water for 20 mins.

For foliar application, we recommend a dosage of STIMBLUE+ 2 L/ha to be mixed in the water tank. Dilution suggested of 0.2% to 0.5% (e.g., 200-400 litres of water)

- Ground Application

As a soil treatment, StimBlue+ can be sprayed directly on the soil or drip irrigation systems on tape or micro-sprinklers.

The best results occur with balanced fertilization programs, rational agrochemicals, and efficient water management.

Storage

StimBlue+ has a shelf life of 2 years.

We recommend keeping the product stored in a cool place and using it within the 2-4 weeks following the opening of the container.

Applications' calendar & recommendation

*provided by PDF

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