



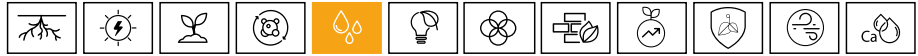
HaifaStim™ Vital

Improves plant's overall performance,
enhances abiotic stress resistance and
stimulates activity in the rhizosphere





HaifaStim™ Vital



HaifaStim™ Vital stimulates the plant's physiological mechanisms and induces production of secondary metabolites under abiotic stresses, thus increasing yield and improving yield quality.

HaifaStim™ Vital is a natural extract of micronized soft processed brown seaweed (*Ascophyllum nodosum*) enriched with polyphenols. It demonstrates a physio-nutritional action, guaranteed by the high content of biochemically active components: betaines, amino acids, cytokinin, mannitol, alginic acid, sugars and proteins.

HaifaStim™ Vital is fully soluble in water and ideal for application by foliar sprays and Nutrigation™.

ACTIVITY & BENEFITS

Facilitates assimilation of nutrients



The alginic acid in HaifaStim™ Vital efficiently forms complexes with macro and micronutrients, increasing their bioavailability. HaifaStim™ Vital stimulates the expression of genes for glutamine synthetase, the enzyme responsible for Nitrogen incorporation into amino acids. It also favors nitrate transporters' gene expression and thus improves Nitrogen absorption.

Enhances stress resistance



The reaction of the plant to stress situations includes oxidation processes. The active polyphenolic complexes in HaifaStim™ Vital perform an antioxidative activity, thus mitigating the plant's response to stress. In addition, HaifaStim™ helps the plant to activate stress-resisting mechanisms by transporting Calcium from the cell vacuoles. The betaine, proline and mannitol content of HaifaStim™ Vital represent osmolytes that support recovery from drought stress.

Increases activity in the rhizosphere



The alginic acid and fucoidan in HaifaStim™ Vital help soil colloids to form aggregates, thus improving the structure of rhizogenic soil. HaifaStim™ Vital encourages the beneficial activity of mycorrhizae and soil bacteria.

Stimulates photosynthesis



The betaine in HaifaStim™ Vital reduces chlorophyll degradation, thus ensuring optimal photosynthesis. **Under normal conditions**, HaifaStim™ Vital is recommended in high productivity systems to boost lateral development of shoots and roots, promote flower differentiation and enhance fruit development and coloring. **Under stress conditions**, HaifaStim™ Vital alleviates plant stress:

- producing natural precursors of phytohormones related to anti-stress activity;
- improving water retention in plant cells.

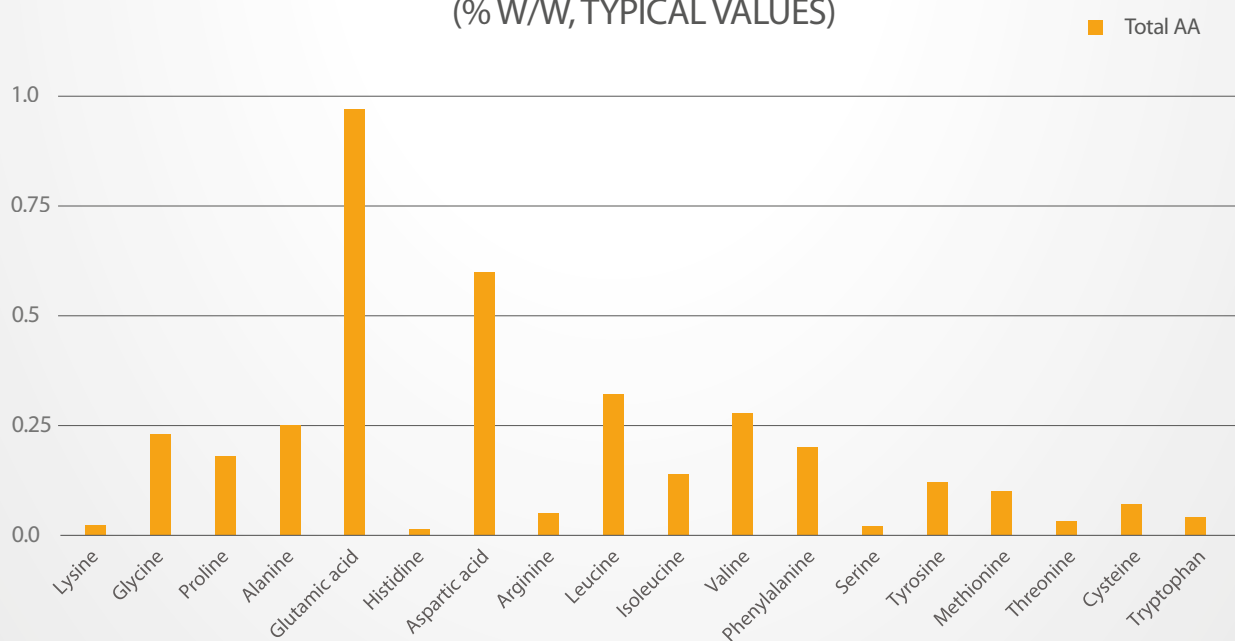
COMPOSITION

Total Nitrogen (N)	1.0 %
Organic Nitrogen (N)	1.0 %
Total Organic Carbon (TOC) of biological origin	20.0 %
Potassium (K ₂ O) water-soluble	20.0 %
Bioactive compounds	
Alginic acid	10.0 %
Mannitol	4.0 %
Betaine	0.05 %
Cytokinin	0.06 %
Aminoacids and Peptides	6.3 %
Fucoidan	12.0 %

PROPERTIES

Specific weight (at 25°C)	0.76 g/cm ³	
Solubility (at 25°C)	450 g/l	
pH and Electric Conductivity (EC)		
Concentration	1 g/l	3 g/l
EC (mS/cm at 25°C)	0.55	1.51
pH	8.71	9.52

HAIFASTIM™ VITAL AMINOGRAM (% W/W, TYPICAL VALUES)








APPLICATIONS

For best results, apply small portions of HaifaStim™ Vital throughout the growing season and when stress develops.

Nutrigation™: apply 2-3 kg/ha every 3-4 weeks throughout the growth season. Application during establishment is markedly beneficial. Do not exceed a concentration of 0.5% in the irrigation water.

Foliar application: it is recommended to spray 80-150 g/hl every 3 weeks.

SPECIFIC RECOMMENDATIONS FOR FOLIAR SPRAYS:

Crops	Recommended Dosage	Timing	
Leafy vegetables	80-120 g/hl	3-4 applications every 10-15 days from the first true leaves	
Tomato, Pepper, Cucumber, Eggplant, Melon, Watermelon, etc.	80-120 g/hl	From first visible flowers until harvest	
Citrus and Tropical Fruits	80-140 g/hl	From pre-flowering through fruit setting and from fruit development/coloring until post-harvest	
Fruit trees: Stone fruits, Pomefruits, Soft fruits, Olive, etc.	90-150 g/hl	From pre-flowering through fruit setting and from fruit development/coloring until post-harvest	
Vineyards and Table Grapes	90-150 g/hl	Apply every 15 days from pre-flowering until one month after harvest	

COMPATIBILITY

- **HaifaStim™ Vital** can be mixed with most common plant protection products and water-soluble fertilizers. It is recommended to carry out a small-scale test before preparing a tank-mix.

STORAGE AND HANDLING

- Store in a well-aerated place, away from direct sunlight.
- Suitable storage temperature: 5°C to 30°C.

PACKAGING

- 1 kg buckets in 6 kg box on 396 kg pallet
- 2 kg buckets in 8 kg box on 448 kg pallet
- 5 kg buckets on 560 kg pallet
- 20 kg buckets on 700 kg pallet



Product suitable for use in Organic Farming in accordance with Regulations (UE) No 2018/848 and 2021/1165. Control ECOCERT SA F - 32600





Try our other HaifaStim™ products:



HaifaStim™ HumiK



HaifaStim™ Wall-Up



HaifaStim™ Booster



HaifaStim™ Calmaster



HaifaStim™ Vigor



HaifaStim™ Combat



HaifaStim™ Force



HaifaStim™ Promo



HaifaStim™ eNergy



HaifaStim™ Rally



HaifaStim™ VIM



HaifaStim™ KIR