



HaifaStim™ Vigor

Facilitates nutrient uptake, revitalizes the rhizosphere and improves stress tolerance



Pioneering the Future.



HaifaStim™ Vigor



HaifaStim™ Vigor is a concentrated liquid solution with high content of free amino acids and short-chain peptides. It optimizes the transformation of nutrients into vital compounds such as enzymes, proteins and polysaccharides, hence it is highly beneficial for plants during phases of intensive growth or under stress.

HaifaStim™ Vigor is ideal for Nutrigation™ and foliar application.

ACTIVITY & BENEFITS



Relieves abiotic stresses

HaifaStim™ Vigor contains glycine, proline, hydroxyproline and lysine that act directly and indirectly to maintain optimal hydration of plant tissues. The combination of amino acids and peptides improves the enzyme malate dehydrogenase activity, which is essential for balanced cellular respiration. Malate dehydrogenase prevents oxidative stress that usually arises under unfavorable growth conditions.



Facilitates uptake and assimilation of nutrients

The amino acids in HaifaStim™ Vigor promote Nitrogen assimilation by stimulating enzymes such as nitrate reductase, nitrite reductase and glutamate dehydrogenase. The amino acids also form complexes with micronutrients in the soil and stimulate the activity of the enzyme Iron-chelate reductase, that allows the assimilation of available chelated Iron.



Encourages microbial activity in the rhizosphere

The amino acids in HaifaStim™ Vigor stimulate the degradation of organic matter and, consequently, nutrients' mobilization. This, in turn, supports the development of microbial biomass in the rhizosphere. HaifaStim™ Vigor boosts the population of beneficial microorganisms in the rhizosphere, such as *Trichoderma* spp.



Improves yield

Due to the high content of biochemically active organic substances, HaifaStim™ Vigor facilitates photosynthesis, resulting in higher production of sugars (°Brix), better fruit color and more efficient synthesis of secondary metabolites (carotenoids, anthocyanins, flavonoids, etc.) that improve the quality of the yield.

COMPOSITION

Total Nitrogen (N)	8.5 %
Organic Nitrogen (N)	8.3 %
Ammonium Nitrogen (N)	0.2 %
Total Organic Carbon (TOC)	26.5 %

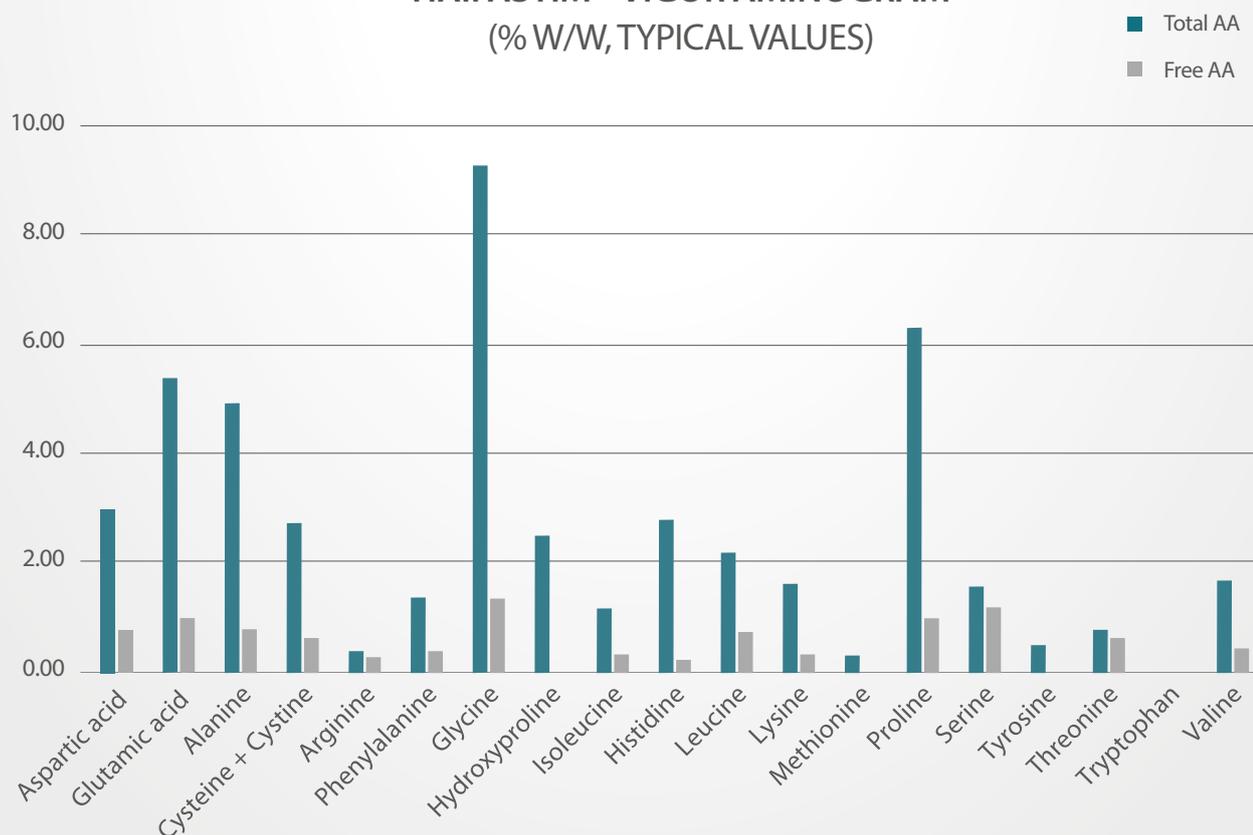
Bioactive compounds

Total Amino Acids and Peptides	48.7 %
Free Amino Acids	10.3 %

PROPERTIES

Density (at 25°C)	1.20 g/cm ³
pH (0.1% solution)	6.5
EC (0.1% solution at 25°C)	0.3 mS/cm

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



COMPATIBILITY

HaifaStim™ Vigor is compatible with most plant protection products and foliar fertilizers. Do not mix with highly concentrated products and in low water volume. Add enough water to ensure complete dissolution of mixes and check the EC of the solution. Avoid application together with, or soon after, Copper-based and mineral oils products. When mixing with Sulfur preparations, HaifaStim™ Vigor dose should not exceed 100 ml/hl. It is advisable to carry out a small-scale test to ensure compatibility and plant safety of the mix.

STORAGE AND HANDLING

- Store in a well-aerated place, away from direct sunlight.
- Suitable storage temperature: +5°C to +30°C.
- In case of spillage, absorb the product with sand or soil and collect it into a dedicated bin.
- **Shake well before use.**

PACKAGING

5 l (6 kg) canisters in 20 l (24 kg) box on 600 l (720 kg) pallet

25 l (30 kg) canisters on 800 l (960 kg) pallet

1000 l (1200 kg) IBC



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



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APPLICATIONS

HaifaStim™ Vigor is recommended whenever a rapid vegetative growth is desired and when aiming to get high yield. It is advised to apply HaifaStim™ Vigor during the initial growth stages, when vegetative growth is intensive and when stress damages or growth breaks are noted. For best effect against abiotic stresses, repeated applications are recommended.

Nutrigation™: the average dosage is 30-50 l/ha to be adapted over the course of the crop cycle. In soilless cultivation use 3-5 l/1000 m² depending on environmental conditions and crop requirements.

SPECIFIC RECOMMENDATIONS FOR NUTRIGATION™ :

Crops	Recommended Dosage	Timing	
Leafy Vegetables	20-30 l/ha	1-2 applications every 10-15 days from the 1-2 leaves	
Tomato, Pepper, Cucumber, Eggplant, Melon, Watermelon, etc.	20-40 l/ha	From the post-transplant phases to the vegetative growth, after fruit set and during fruit growth	
Fruit Trees (Stone fruits, Pomefruits, Softfruits), Olives, Citrus, etc.	20-30 l/ha	During the vegetative growth and after harvest	
Vineyards and Table Grapes	20-30 l/ha	From 6-7 unfolded leaves to pre-flowering, from fruit growth to berries touching and after harvest	
Cereals and other arable crops	Foliar spray 2-4 l/ha	In combination with herbicides, fungicides and insecticides	



Try our other HaifaStim™ products:



HaifaStim™ HumiK



HaifaStim™ Wall-Up



HaifaStim™ Booster



HaifaStim™ Calmaster



HaifaStim™ Force



HaifaStim™ Combat



HaifaStim™ Vital



HaifaStim™ Promo



HaifaStim™ eNergy



HaifaStim™ Rally



HaifaStim™ VIM



HaifaStim™ KIR