

# HortiBoost

## Plant Biostimulant & Nutrient Complex

HortiBoost takes plant nutrition beyond conventional fertilisers by combining a unique, powerful package of essential amino-acids, humic acid complex, seaweed and major and minor nutrients from organic and inorganic sources.

HortiBoost has been developed for application primarily as a foliar fertiliser but can be applied through fertigation systems for salad and soft fruit crops.

HortiBoost facilitates maximum utilisation of nutrients, water, CO<sub>2</sub> and light to maximise growth efficiency.

HortiBoost can be used on a wide range of fruits, vegetables, salad crops, vines, plants in propagation and on all ornamentals.

HortiBoost is fast-acting with absorption into the crop within 12 to 24 hours.

HortiBoost can be used alone as a biostimulant or tank mixed with a wide range of Hortifeeds soluble fertilisers and HortiPhyte products.

### **Application timing:**

Use during the vegetative and early fruit swell stages for fruit crops and in the early and mid-growth stages for vegetables, salads and ornamentals.

### **Application frequency:**

Apply at 14 to 28 day intervals to maintain the effect. One application early in the crop cycle is often of most benefit.

### **Application rate (foliar application):**

Apply 5 to 20 litres/ha depending on crop size. Dilute into 200 to 600 litres of water.

For small areas via knapsack sprayer etc. dilute at 2 to 5ml/litre and apply to run-off.

### **Application rate (fertigation):**

Apply 1 to 3 litres of HortiBoost / ha in the fertigation solution.

If application is via a Dosatron or similar at 1% (1:100) dilution, apply 1 to 3 litres of HortiBoost per 100 litres of stock along with your normal fertigation feed every 1 to 2 weeks.

HortiBoost is available in 10 litre containers. HFL218B  
and 200 litres HFL218C



### L-amino acids – effects on plant growth and responses

Use of amino acids is a known method to increase crop yield and quality including BRIX concentration. Plants have the capacity to biosynthesize all of the amino acids that they require the process is quite complex and energy consuming. The application of amino acids contained in HortiBoost allows the plant to save energy on this process during critical growth stages.

Amino acids are fundamental ingredients in a protein's biosynthetic process and nearly twenty amino acids types are involved in biosynthetic processes. Amino acids can directly or indirectly in a plant's physiological activities acting as auxin stimulators.

Amino acids can be applied via foliar feeding, or via fertigation to the roots and soil biota.

| HortiBoost Amino Acid Package and effect on plant growth  |  |
|---|--|
| Amino Acid  | Biostimulation effect on growth  |
| L-Threonine   | Increases tolerance to drought stress  |
| L-Aspartic acid   | Increase seed germination speed and success  |
| L-Serine  | Osmotic balance regulation and heat stress tolerance   |
| L-Glutamic acid   | Chlorophyll production and photosynthesis, pollination.  |
| L-Proline   | Osmotic balance regulation and heat stress tolerance, pollen fertility.                              |
| L-Hydroxyproline  | Osmotic balance regulation and heat stress tolerance   |
| L-Glycine   | Stimulator of photosynthesis and increases uptake of many micronutrients.                            |
| L-Alanine   | Chlorophyll production and photosynthesis  |
| L-Cysteine  | Increases tolerance to drought stress  |
| L-Valine  | Increases tolerance to drought stress  |
| L-Methionine  | Stomata functions, stabilises cell walls, pollination. Microbial benefits, growth factor production. |
| L-Isoleucine  | Osmotic balance regulation and heat stress tolerance   |
| L-Leucine   | Osmotic balance regulation and heat stress tolerance   |
| L-Tyrosine  | Osmotic balance regulation and heat stress tolerance   |
| L-Phenylalanine   | Increases tolerance to drought stress  |
| L-Lysine  | Increases tolerance to drought stress and disease immunity   |
| L-Histidine   | Chlorophyll production and photosynthesis, pollination.  |
| L-Arginine  | Stomata functions  |
| L-Asparagine  | Increases tolerance to drought stress  |
| L-Tryptophan  | Increase seed germination speed and success  |
|   | Amino acid and Auxin synthesis   |
| HortiBoost additionally contains Humic and Fulvic acids, and soluble seaweed extract rich in a wide range of organic biostimulants and organic nutrients. |  |

HortiBoost contains a low concentration of plant nutrients. For a stronger nutrient gift, HortiBoost is compatible with HortiMix soluble and liquid fertilisers and the HortiPhyte range. HortiBoost can be added to tank mixes with HortiFol fertilisers for foliar application and with HortiMix fertilisers for fertigation application.

#### Analysis w/w

Total Nitrogen 1.48%; Ammonical N 1.08%; Nitrate N 0.18%; Organic N 0.22%  
 Phosphorus (P<sub>2</sub>O<sub>5</sub>) 0.34%; Potassium (K<sub>2</sub>O) 0.97%; Magnesium (MgO) 0.1%;  
 Boron 0.027%; Copper 0.036%; Iron 1.1%; Manganese 0.036%; Molybdenum 0.018%; Zinc 0.036%  
 Seaweed Extract 5%; Humic Acid Complex 0.6%; 20 L-form Amino acids package 5%

