

A close-up photograph of an orange tree branch. The image shows several bright orange fruits, some in the foreground and others slightly behind. Interspersed among the oranges are green, glossy leaves and clusters of small, white, five-petaled flowers. Some flowers are in full bloom, while others are still in bud form. The background is dark, making the oranges and leaves stand out. In the top right corner, the word "BRANDT" is written in a bold, red, italicized font with a registered trademark symbol. Two overlapping rectangular boxes are positioned on the left side of the image: a light green one above a red one, both containing white text.

**BRANDT®**

**BRANDT® Algar**

**Biostimulants**

# BRANDT® Algar

## Biostimulants

BRANDT Algar is a complete range of algae-based biostimulants to cover plant needs: root development, improved vegetative growth and optimisation of fruit set. They also improve nutrition in each phenological stage to achieve higher fruit production and quality, which increases profitability for growers.

They increase resistance to plant diseases, pests and physiopathies.

The need for sustainable agriculture makes the use of biological products essential, and the use of algae is a great option for this purpose.

Our range is based on two types of algae: *Ascophyllum nodosum* and *Ecklonia maxima*.

- **Ascophyllum nodosum** contains natural phytohormones that promote growth, such as cytokinins and auxins, in addition to betaine, polyamine and oligosaccharides.
- **Ecklonia maxima**, due to the auxin/cytokinin ratio, favours the creation of new roots, and higher quality, more homogeneous and larger fruits.

## BRANDT® Algar

### Composition

Ascophyllum nodosum.....	10%
Alginic Ac.....	0.5%
Mannitol w/w.....	1.5%
Density.....	1.3 kg/l
pH.....	8.3

### Characteristics

BRANDT Algar plays an important role in defending the plant against stressful situations, acting as an elicitor. It is involved in the cellular water balance and in protecting against saline stress.

Mannitol is a polyalcohol that acts as an osmoprotectant, protecting plant cells from negative effects resulting from hydric or saline stress.

BRANDT Algar is a powerful antioxidant, which blocks free radicals and prevents metabolic damage.

BRANDT Algar's content is specially developed from highly purified seaweed extracts.

## BRANDT® Algar Plus

### Composition

Ascophyllum nodosum.....	15%
Alginic Ac.....	2.25%
Mannitol w/w.....	0.75%
Organic Matter.....	40%
Nitrogen (N).....	0.3%
Boron (B).....	0.1%
Magnesium (Mg).....	0.08%
Density.....	1.23 kg/l
pH.....	5.5

### Characteristics

BRANDT Algar Plus helps plants in the critical crop phases, particularly in conditions of stress.

BRANDT Algar Plus applications promote vegetative and root growth for the following reasons:

- Easily absorbed by the plant.
- Lower energy consumption.
- Facilitates the synthesis of chlorophyll.
- Increases meristematic and vegetative growth of the plant.
- Promotes rooting.
- Promotes strong and harmonic growth.
- Greater floral induction.
- Higher degree of fertilisation of the flowers thanks to better development of pollen tubes.
- Better cell multiplication of fruits.
- Increase in production.





## BRANDT® Algar Max

### Composition

Ecklonia maxima.....	16%
Alginic Ac w/w.....	0.5%
Density.....	1.1 kg/l
pH.....	4.54

### Characteristics

BRANDT Algar Max is a product specifically designed with Ecklonia maxima seaweed extracts. It contains a wide variety of vitamins, minerals, enzymes, amino acids and phytohormones. The latter in a high concentration, in particular indoleacetic acid, an auxin that is characterised by stimulating cell elongation.

The application of these algae can have diverse effects on the plant:

- Root development: stimulates root formation, both secondary and absorbent hairs. Also suitable for immersion of roots or seedlings before transplanting.
- BRANDT Algar Max stimulates a greater absorption of water and nutrients from the soil, which, together with a greater endogenous production of cytokinins, produces plants with more foliage, resulting in increases in crop production and quality.
- Increases fruit set levels, due to the high auxin and brassinosteroid activity, hormones that are responsible for the elongation of pollen tubes.
- Increases fruit size: auxins, together with brassinosteroids, stimulate cell elongation and larger fruits.
- Gives plants a high degree of resistance to various stresses, such as: cold (micro-frosts), lack of water, high temperatures, salinity, among others. They can be applied to various herbaceous, woody and ornamental crops.

## BRANDT® Algar Duo

### Composition

Algae Extract (Ascophyllum Nodosum + Ecklonia Maxima).....	20%
Alginic Ac.....	1.8% w/w
Mannitol.....	0.5% w/w
Density.....	1.06 kg/l
pH.....	9.7

### Characteristics

BRANDT Algar Duo contains a multitude of active components, including: alginates, mannitol, fucans, polyphenols, amino acids and nutrients, as well as other substances that act with a hormonal effect.

In fact, the benefit of the application of seaweed extracts is understood as a synergistic effect of all the components.

BRANDT Algar Duo alginates (alginic acids), present in the cell walls of Ascophyllum nodosum and Ecklonia maxima, provide:

- Cell wall flexibility.
- Adaptation to abiotic stress phenomena.
- Protection against saline stress.

BRANDT Algar Duo favours:

- Development of new roots and the growth of lateral buds (thanks to the auxin/cytokinin ratio provided by Ecklonia maxima).
- Vegetative development of plants.
- Flowering and a higher number of fertile flowers.
- Fruit set, higher quality, higher calibre and more homogeneous.



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