

# PRODUCT SPECIFICATIONS

**FERTUM® Foliar**  
**ORGANIC**  
**PRODUCT**  
**100 % NATURAL**

**TRADE NAME** : FERTUM® *Foliar*  
**COMMON NAME** : Seaweed Extract  
**GRADE** : Agricultural.

**FERTUM® Foliar** Is a natural organic biostimulant and fertiliser, for use on leaves and roots, prepared with marine algae, highly concentrated and water-soluble, which contains a wide band of chelating agents: hydrolyzed proteins, amino acids, organic acids, carbohydrates and plant hormones like auxins, cytokinins and gibberellins, providing the plants with an excellent food supplement.

## PHYSICAL ANALYSIS AND SPECIFICATIONS

Product Name	FERTUM® <i>Foliar</i>
Classification	Plant stimulant
Appearance	Brownish-green liquid with a marine algae odour
Form	Liquid
Viscosity	24 CPS
Specific Gravity	1.03
pH	4.5 – 4.7
Boiling Point	101 ° C
Electric Conductivity	16.16 mS/cm
Storage	Shelter from light and store preferably in a cool and dark place
Shelf Life	2 years
Hazard level	FERTUM® <i>Foliar</i> is not toxic or dangerous for the user or the environment.
Compatibilities	With chemical products, it should be added last to the mixing tank, once the tank is near full with water
Packaging	Plastic cans: 1 L., 5 L. and 20 L. 200 L. Drums

## PROPERTIES AND USAGE ADVANTAGES OF FERTUM® *Foliar*

- It stimulates the genetic potential and increases the yield and quality of the crops.
- The auxins and gibberellins it contains stimulate growth and cell division in the plants.
- The cytokinins it contains support photosynthesis, stimulating seed germination.
- Its plant hormones activate the flow of carbohydrates for the nitrogen fixation process, so necessary for the health of the fertile soil.

germination, growth, stimulation, pre-flowering and flowering.

- It stimulates the plant metabolism improving its vitality, productivity and resistance to stress.
- Improves plant resistance to tension, obtaining healthier and stronger harvests, with larger yields.
- Promotes greater plant resistance to frost and drought, to pests and diseases.
- Produces a fast transfer of nutrients to sectors of higher requirements, quickly and efficiently repairing any nutritional deficit.
- **FERTUM® Foliar** also improves the length of fruit storage.

## FERTUM® *Foliar*

- Helps the plant during its most crucial physiological changes, like:

Its natural hormones aren't wasted because they have a slow release cycle that through a synergistic effect among all the components achieves an efficient final output: healthier plants, with larger radicle mass; more elongation; better steadfast;

better flowering and fruit formation; and a better rate of cell division.

The ability to assimilate the nutrients released by **FERTUM® Foliar** in contact with the soil and the radicle system of the plant is 100 %, something that does not occur with synthetic fertilizers.

This product is manufactured by **PATAGONIA BIOTECNOLOGÍA S.A.**, at the town of Valdivia, 14<sup>th</sup> Region. Chile.

The industrial production processes of **FERTUM® Foliar** guarantee they preserve intact the characteristics and inherent capacities of the source materials used, so they are conveyed efficiently to all kinds of crops, either in home gardens or in agro-industry, nurseries, greenhouse culture, fruit plants and forest trees, increasing the per hectare yields (CHECKED BY TESTS).

## COMPOSITION OF **FERTUM® Foliar**

RESULTS EXPRESSED ON THE BASIS OF 100% DRY MATTER \*

PROXIMATE ANALYSIS	%	ELEMENT	%
Humidity	-	Total Nitrogen	1.40
Dry Matter	86.7	Potassium	8.65
Crude Fibre	14.2	Phosphorus	1.80
Ash	34.1	Calcium	1.35
Ether Extract	0.44	Sulphur	1.20
Crude Protein	15.0	Magnesium	1.13
NFE	36.3		

\* Certified by the *Facultad de Agronomía* of the *Pontificia Universidad Católica de Chile*.

## PLANT HORMONE ANALYSIS

PLANT HORMONES	Mg / l.
AUXINS	13.4
CYTOKININS	14.2

**FERTUM® Foliar** is used in interior and exterior environments.

It can be used applied to foliage and in fertigation

**FERTUM® Foliar** contains plant hormones: cytokinins, auxins and gibberellins.

Cytokinins are known for: stimulating the synthesis of proteins; helping in the cell division and elongation; and interacting with other hormones, like auxins.

We must observe that, although they are necessary for controlling apical dominance (the capacity of the plant to grow upwards and control the development of lateral roots) in various crops, auxins work with cytokinins to control cell differentiation (that is, the capacity of the cells to take on specialized

functions in the plant) and, finally, the growth of the plant. Gibberellins help to stimulate the growth of the plants.

Research has also identified in these seaweed extracts: betaines (compounds that help to maintain the hydric balance in the cells and stimulate the plants processes); polysaccharides that improve the soil structure and oligosaccharides.

**FERTUM® Foliar** includes structural proteins, enzymes and other defence-related plant proteins, as well as all the mayor, minor and trace elements that the plants need.

**Compatibilities:**

**FERTUM**® *Foliar* does not have compatibility issues and in many cases the effectiveness of the product has been improved when used with herbicides, fungicides and insecticides mixed in the tank. We recommend that **FERTUM**® *Foliar* should be the last ingredient added to the tank once filled with water.

**Warning:**

Store in a dark and cool place. Keep away from direct sunlight. This product can build up pressure inside its container, so you should cut the inner seal carefully. It's not toxic or dangerous for the user or the environment. Not flammable. If it accidentally

falls in contact with eyes or skin, flush with plenty of water. We recommend handling with rubber gloves. Leave out of reach of children.

**Shelf Life:** 2 years

[www.fertum.cl](http://www.fertum.cl)

[www.bio-fertum.com](http://www.bio-fertum.com)

**Usage suggestions in annex**