



**PRODUCT INFO
& DATASHEET**

SICOMER PRODUCTS

General information – World unique technology

LAMINARIA: The best from the sea to feed the land...

Because they undergo the constant movement of the tides, seaweeds are subject to conditions of particular stress. In order to survive they have developed unique processes of internal regulation which enable them to attain balanced development.

"**LAMINARIA DIGITATA**" is harvested from some of the most frequently renewed waters in Europe.

This seaweed has traditionally been used by the farmers of Brittany to fertilize their fields.

"**LAMINARIA DIGITATA**", considered to be the "Rolls-Royce" of seaweeds, has many fine qualities, including:

- a high concentration of iodine and algin (wetting agents);
- strong wetting qualities (improved diffusion of nutrients to foliage);
- rich in oligo-saccharides (improved stress-resistance).

SICOMER, a technology unique in the world ...

When the "**LAMINARIA DIGITATA**" arrives in the factory it is first rinsed to remove any impurities (sand, shellfish,...) and then dried at a low temperature to avoid any deterioration of the vitamins and phytohormones. Then the seaweed goes through two totally new processes:

1) Concentration: it takes 20 Kg of fresh seaweed to produce 1 Kg of Laminaria concentrate.

This proportion is as yet unparalleled worldwide.

2) Micronisation: to obtain an ultra-fine farina, which gives the finished product its physical properties. All products in the range are tested in great detail, in partnership with firms well established in the field of seaweed processing, and also with laboratories and distributors.

LAMINARIA DIGITATA

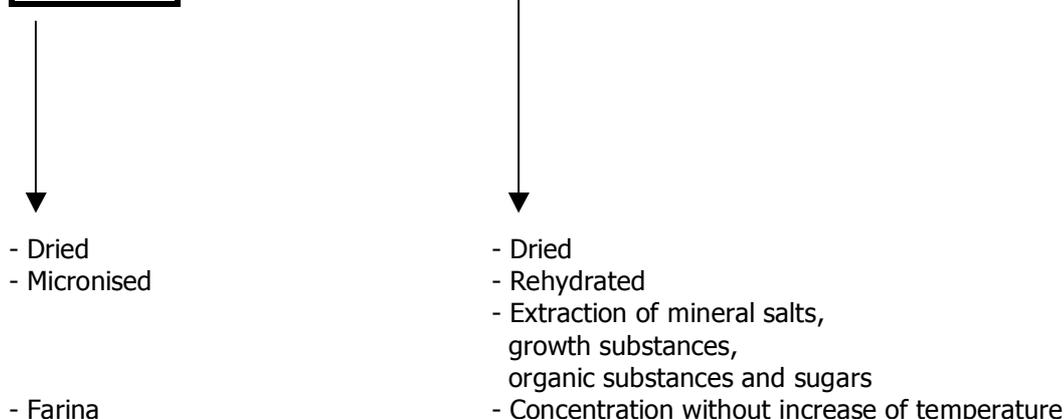
Why?

This seaweed was chosen because it is:

- The richest in trace elements and mineral salts;
- The richest in oligo-saccharides which enable plants to develop their self-defence mechanisms;
- Very rich in growth substances (Gibberellins, Cytokinins, Betaines), growing up to 12 cm per day.

Manufacturing process of SICOMER products

LAMINARIA





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Combined to obtain the finished product after adding trace elements

Hormonal composition of LAMINARIA DIGITATA

	Fresh LAMINARIA finely ground	SICOMER Seaweed Concentrate
CYTOKININS	Not detectable	0,26 microgram eq. B.A. P/gr of M.S.
GIBBERELLINS	1,98 eq. micrograms of GA 3/g de M.S.	7,7 eq. micrograms of GA 3/g de M.S. (*)

The maximum value of reference being 4.97 micrograms.

This research therefore shows:

- The significant concentration of **SICOMER** products
- The stability of the growth hormones

Properties of SICOMER Seaweed Concentrate

SICOMER Seaweed Concentrate:

- Accentuates stomatic activity;
- Harmonises nutrition and facilitates the migration of nutritional and reserve elements, so regulating maturation;
- Stimulates flower development and improves pollination;
- Stimulates photosynthesis;
- Reduces stress;
- Improves vigour by encouraging root development;
- Slows down cell ageing;
- Acts as a wetting agent, which encourages the take-up of different trace elements and treatments;
- Leads to homogeneous harvesting.

Details of the role of SICOMER seaweed concentrate in combating stress

Firstly, the anti-stress effect derives from the physiological stimulus conveyed to all plants by seaweeds in general, and by the laminaria in particular. This phytotonic effect is seen in the improved root system, the proportion of dry matter and improved stomatic regulation.

SICOMER products enable plants to resist:

Heat

High temperatures dehydrate cells and accelerate cell ageing. The properties mentioned above help to limit these effects - most noticeably in vegetables and sunflowers.

Cold

The effects of cold are reduced by the increased proportion of dry matter in the plant and more regular respiration. This can be seen in the response of vegetables and fruit trees to frost; treated areas show improved pollination and setting of fruit.

Drought

Improved root development and stomatic regulation lead to better resistance to drought.

(This is most noticeable in vegetables and vines).

Disease

SICOMER products are not fungicides, but they will slow down the appearance of symptoms. The INRA has come out clearly in its favour against mildew in vines, and the UNCAA recommends it against bitter pit.

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