

Phylgreen Range

An ocean of benefits



What is Phylgreen®?



Phylgreen® is an unique range of Tradecorp bio-stimulants, based on *Ascophyllum nodosum* extract.

Unlike other bio-stimulants on the market, Phylgreen range products are natural, sustainable and, thanks to the exclusive **GLT® (Gentle&Low Temperature) extraction method**, they preserve the original active ingredients of seaweeds.

Unusually delicate extraction method

Our Phylgreen range is based on high quality and freshly harvested *Ascophyllum nodosum*. Compared to other seaweed types, it is known to contain a **great amount of active ingredients**. *Ascophyllum nodosum* is the only seaweed that grows in the tidal area and it has developed a broad range of substances in order to protect itself against the extreme climatic conditions and fluctuation of tides it has to endure.

Most of these beneficial compounds are sensitive to heat and chemicals. To avoid their loss or damage, in our Phylgreen range the extraction is made through the **exclusive GLT method**, a gentle procedure to extract delicate plant compounds optimally preserving their **benefits and bioavailability**.

Heat extraction

The most common extraction method

CONSISTING OF

- A rapid dehydration of the seaweeds
- An alkaline extraction

RESULT

- ▶ Black liquid
- ▶ That contains only a portion of the original bioactive ingredients

GLT[®] extraction

Exclusive extraction method used in Phylgreen range

CONSISTING OF

- No dehydration
Temperature does not exceed 30°C
- No chemicals are used

RESULT

- ▶ Greenish and completely soluble liquid with sea odour
- ▶ That preserves all the bioactive ingredients present in fresh seaweed

LOSS OF ACTIVE INGREDIENTS



Polyphenols
-5%



Mannitol
-37%



Alginates
-59%

100% PRESERVED ACTIVE INGREDIENTS



Polyphenols
100%



Mannitol
100%



Alginates
100%

Fresh raw material from unpolluted waters

The *Ascophyllum nodosum* used for the manufacture of Phylgreen is always fresh and it is harvested in North West Ireland, a sea coast with **clean and unpolluted water** where seaweed develops in the purest growth conditions.

Moreover, the raw material in which Phylgreen range is based is extracted by the GLT method, **preserving all the active ingredients** that are naturally present in *Ascophyllum nodosum*:

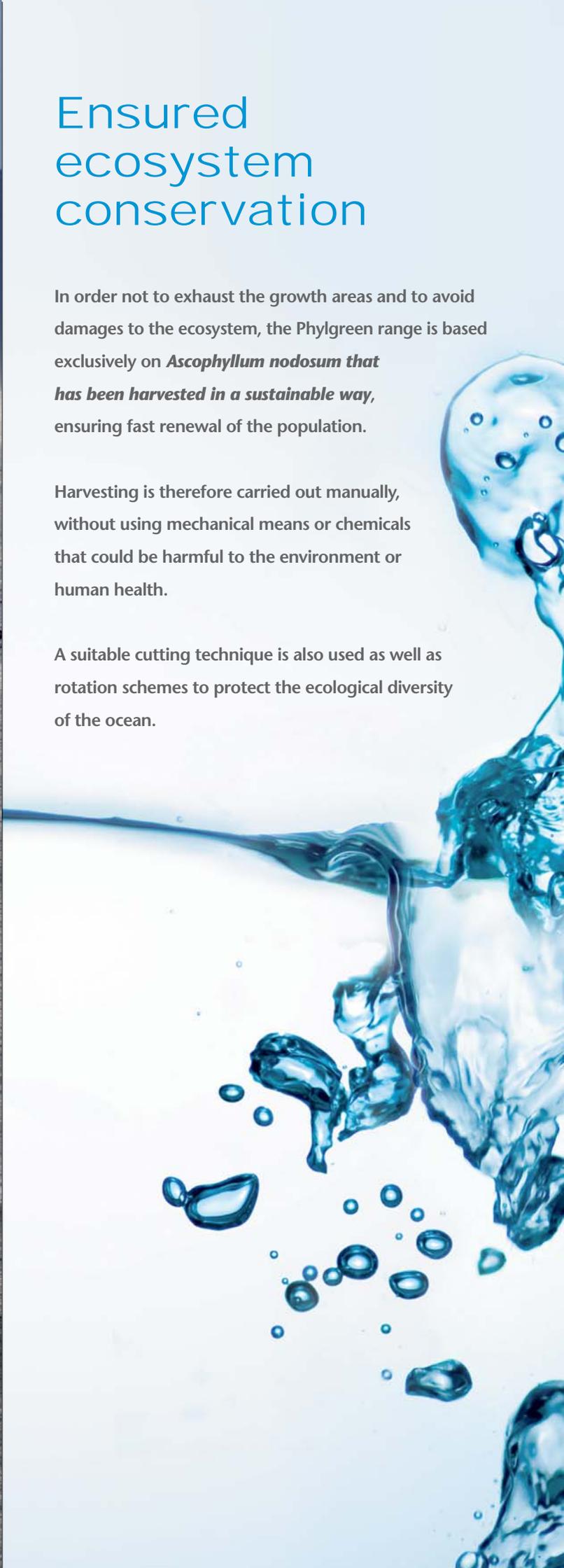
- Essential micro and macronutrients for plants
- Mannitol and other compounds involved in overcoming salinity and other environmental stress conditions
- Antioxidants: polyphenols with high antioxidant activity; vitamins C & E; and pigments as carotenoids
- Hormone-like compounds

Ensured ecosystem conservation

In order not to exhaust the growth areas and to avoid damages to the ecosystem, the Phylgreen range is based exclusively on *Ascophyllum nodosum* that **has been harvested in a sustainable way**, ensuring fast renewal of the population.

Harvesting is therefore carried out manually, without using mechanical means or chemicals that could be harmful to the environment or human health.

A suitable cutting technique is also used as well as rotation schemes to protect the ecological diversity of the ocean.



Vitality & wellness

an ocean of benefits
for your crops

The main benefits of the Phylgreen range are its capacity to naturally stimulate plants' metabolism and the environmental stress alleviation effect. Both result in vitality and general wellness of crops.

Natural metabolism stimulation:

The active ingredients naturally present in Phylgreen range have a **bio-stimulant** and **hormone activation effect**.

The latter triggers the natural production of auxins, gibberellins and cytokinins in plants. As a result, Phylgreen products can be applied to stimulate plant and root growth, root differentiation, cell division, bud formation, flowering, fruit set and fruit development.

Stress alleviation:

Thanks to our GLT extraction method, Phylgreen range contains many substances that **promote tolerance against environmental stress**:

- Phylgreen's high content in polyphenols, carotenoids and its broad range of vitamins act as **antioxidants** reducing the damage induced by radical oxygen molecules through their detoxification.
- Phylgreen range also contains several **osmoprotectors** (mannitol, betaines) that provide protection against osmotic stress (usually produced by lack of water, high salt contents and high/low temperatures) and enhances the **fastest recovery after stress situations**.



A natural range for more vigorous and stronger crops

Tradecorp's broad technical knowledge and vast experience in micronutrients and foliar fertilizers, together with its in-depth knowledge of the active compounds present in *Ascophyllum nodosum*, have made the development of Phylgreen range possible.

This Tradecorp range provides solutions indicated for the different crop development stages as well as solutions specially meant to overcome environmental stress situations and correct micronutrient deficiencies.

The Phylgreen range includes



Phylgreen Range

An ocean of benefits



Phylgreen®

Bio-stimulant especially indicated to overcome environmental stress situations and during critical growth stages

Phylgreen® Adara

Special bio-stimulant for micronutrient deficiencies prevention and correction

Phylgreen® Vega

Bio-stimulant specially indicated to boost growth during vegetative development

Phylgreen® Mira

Bio-stimulant specially indicated to enhance flowering and fruit set

Phylgreen® Electra

Bio-stimulant specially indicated to enhance fruit quality and shelf life



TRADECORP
NUTRI-PERFORMANCE



▶ Alcalá, 498 - 2nd Floor
28027 Madrid (Spain)
Tel. +34 91 327 32 00
Fax +34 91 304 71 72
global@tradecorp.sapec.pt

www.tradecorp.com.es