KELP 100™

A foliar and soil applied seaweed suspension for use as a growth stimulant on various crops

WHAT IS IN KELP 100™?

KELP 100™ is the liquid extract of the fastest growing seaweed in the world - Ecklonia maxima.

KELP 100™ is the only Kelp extract produced by Unique ENZYMATIC HYDROLYSIS PROCESS ".

This method simply ruptures the cell walls releasing vital plant hormones without any denaturing.

ENZYMATIC HYDROLYSIS PROCESS implies Natural property enzymes of fungal origin . The process is precisely controlled and the percentage of free bio-available amino acids and hormones are the highest in the industry.

FERTILIZER GROUP 2
GUARANTEED MINIMUM ANALYSIS

Nitrogen	(N)	2.0 g/l
Phosphorus	(P)	39.5 mg/l
Potassium	(K)	425.5 mg/l
Sulfur	(S)	0.5 g/l
Also contains: Cytokinins and Auxins		27.0 mg/l
Algenic acid		4.0 g/l

Natural seaweed extract for root development

BENEFITS OF KELP 100™

- Increased auxins promote a larger and more vigorous root system.
- Required plant hormones help crops recover from stress situations.
- Can be applied with a wide range of other agricultural chemicals, reducing the number of spray applications needed.
- Completely soluble and plant available, delivering the required amount of plant hormones.
- High concentration reduces quantity of product needed and saves on packaging and freight costs.
- Encourages strong cell development, reducing lodging
- Reduces senescence in many leafy crops.
- Improves general plant health,encouraging plant resistance to nematodes, other pest and fungal diseases.

WHY IS KELP 100™ THE WORLD'S LEADING SEAWEED EXTRACT?

Due to **KELP 100™**'s base material and production process, it has a large, measured amount of growth hormones known as auxins and cytokinins.

PIS-KELP100-ALLCO_EN_SIN-20200407

Supplier:
Sineria
Sineria Holland BV
Randwycksingel 20 - A015
6229 EE Maastricht, The Netherlands
www.sineria.com

Sineria

Strawberry Plant
Untreated

Strawberry Plant
Treated with Kelp 100™

NOTE: rates are designed as guide only. Each farmer's climatic conditions, water quality, soil types, application processes and practices may differ and therefore need corrections to ensure optimum result. Good agricultural practice requires that application be avoided under extreme weather conditions such as temperatures over 28ºC, high humidity, frost, rain etc. It is recommended that when applying to a crop or area for the first time, or in combination with other chemicals, a small test area should be sprayed and observed prior to the total spray. Where possible, it is recommended that regular leaf (sap) tests are conducted to determine actual plant nutrient availability during each growth cycle. Soil tests at least once per year are essential.

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THE ROLE OF AUXINS

The auxins present in **KELP100™** are responsible for cell elongation and enlargement, thus substantially increasing the growth of the plant. Auxins have been directly linked to root initiation and enlargement in developing plants and cuttings.

THE ROLE OF CYTOKININS

The cytokinins present in **KELP100™** play several vital roles in plant physiology. These mostly relate to cell division and enlargement, which is important for increased yield quality and quantity. Maintaining RNA and protein levels is an important function as it can stop senescence and increase photosynthesis, thus increasing plant growth and development.

PRODUCT CHARACTERISTICS

SPECIFIC GRAVITY : 1.01
COLOUR : GREEN

DIRECTIONS FOR USE

Agitate contents well before dilution
Suitable for application by:

- Root Dip
- Soil Drench
- Fertigation
- Foliar

CROP	RATE	APPLICATION
Seedlings	500ml per 100lt water	Drench seedling tray directly after drilling the seed, to stimulate uniform germination and root formation.
Transplants	500ml per 100lt water	Dip the roots of the seedlings into the solution before transplant or alternatively drench the transplants just prior or after transplanting. Will decrease mortality and stimulate root growth.
Seed coating	500ml per 10kg seed	Apply directly to the seed an mix thoroughly to form a uniform coating on each seed. Will increase germination and stimulate initial root formation.
Vegetables	0.75-1.5lt per 100lt water	Apply as full cover spray during first 4 weeks of establishment, at 7 to 14 day intervals. Will stimulate growth and decrease mortality.
Potatoes	200ml per 100lt water	Soak the seed potatoes into the solution before planting. Can be mixed with other growth stimulants and pesticides. Apply a 2nd application at tubor inititation (approx. 80% emergence) at 4lt/Ha. Repeat application 10-14 days later at 2lt/Ha.
Ornamentals	0.75-1.5lt per 100lt water	Apply as full cover spray at 7 to 14 day intervals throughout the growing season.
Field crops	0.75-1.5lt per 100lt water	Apply as full cover spray 14 days after emergence. Will stimulate growth and decrease mortality.
Fruit trees (Pomme- and Stone fruit),Citrus	3lt per Ha	Apply at: 1. Early flowering, 2. Petal fall and 3. With each calcium (Ca) spray.
Cucurbits, Tomatoes, Peppers, Strawberries, Blueberries	3lt per Ha	Position sprays to coincide with flowering flushes and directly after petal drop.
Avocados, Mangoes, Litchis	3lt per Ha	Apply two sprays: 1. Early flowering and 2. At petal drop, before lignification of flower trusses. All sprays can be positioned with calcium (Ca) sprays.
Grapes (Wine and Table grapes)	3lt per Ha	Apply three sprays: 1. Seperated flower buds, 2. Early fruit set, and 3. With every calcium (Ca) spray.
Small grains	2lt per Ha	Apply at 1-2 node development.
Cold tolerance	5lt Kelp 100™ + 10kg magnesium sulphate per Ha	Apply before anticipated cold periods. Repeat every 7 to 14 days depending on prevailing weather conditions. Will allow plants to withstand cold periods but will not prevent severe frost damage.

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