



Basfoliar[®] Kelp O SL



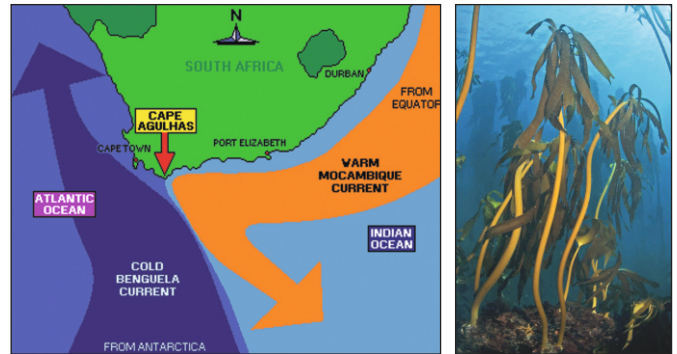


Basfoliar® Kelp O SL

Basfoliar Kelp O SL is a natural and organic sea plant based extractant of Kelp family (*Ecklonia maxima*). The superiority of this product has been witnessed by having phenomenal impact on breaking seed dormancy, root growth and development, ample root hair formation, leaf laminar size increase, enhanced photosynthetic efficiency, optimum flower/fruit setting, increased fruit size and colour development, higher brix value and vitamins content and better keeping quality.

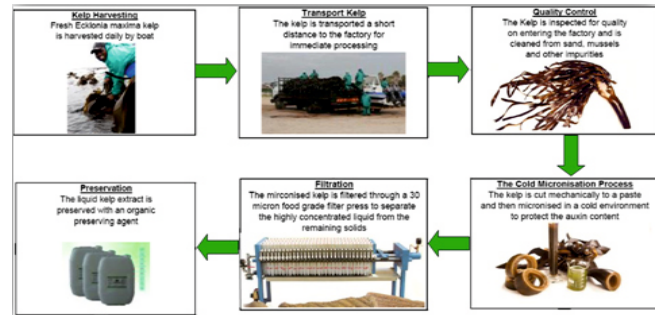
Why *Ecklonia maxima*?

Ecklonia maxima, or sea bamboo, is found only at the southern tip of SA and nowhere else in the world. Due to strong nutrient rich Benguella currents along the SA coastline it grows in very turbulent waters and to survive it must grow very fast to get to the surface to reach the sun. Sea bamboo can grow up to 60-90 ft. tall and can grow up to 30 cm a day. Due to this unique survival mechanism, this type of kelp has the highest concentration of powerful growth promoter hormones, which is the secret ingredient that makes it such a powerful biostimulant.



Harvesting & Extraction Process

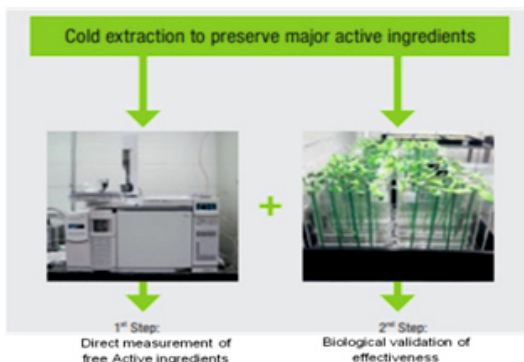
Kelp is hand harvested in strips ensuring the uniform size and edge of the raw materials. The harvested kelp is immediately transferred to the production site for further processing. Extraction from kelp is being done by using a cutting edge technology known as "**Cold Micronisation Process (CMP)**". It's a completely unique mechanism, to rupture the cells by avoiding any kind of synthetic, chemicals or heating process, resulting in obtaining a strong yet eco-friendly, organic biostimulant.



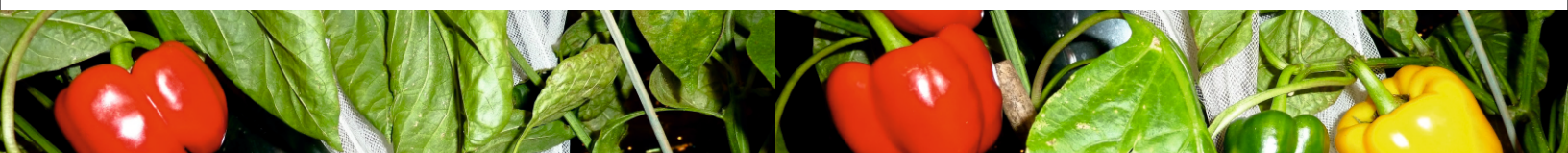
Standardisation of Basfoliar Kelp O SL

Basfoliar Kelp O SL is standardised to a optimum concentration and ratio of active ingredients i.e. Auxin and cytokinin to 300:1. A constant level of **11 ppm of auxin with 75micro gm. of free Auxin (IAA/lt.)** and rest in bound form is maintained which ensures miraculous effect on various physiological processes ongoing in the plant system. Precise analysis of the Auxin is being done by a very sophisticated instrument named GC-MS (Gas chromatography-Mass Spectrometry) and biological validation is being done on Mungbean assay.

Active ingredients: It contains 11.0 ppm. of natural auxin (IAA) with optimum concentration of cytokinin for enhanced growth and development of plant's root and shoots respectively. It helps in enhanced of organoleptic qualities of fruits, vegetables and cereals.

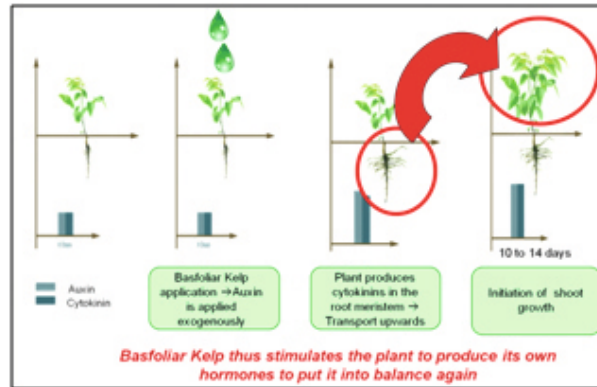
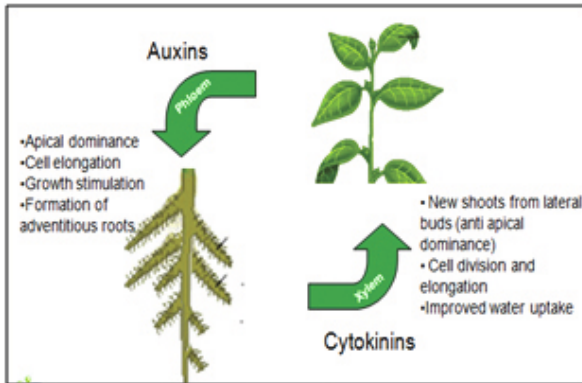


Hormonal effect	
Stimulation of the formation of	
Chlorophyll	→ Green leaf vegetables, lettuce
Indole-3-Acetic acid	→ Vegetables, fruits
Vitamins	→ Vegetables, fruits
Several enzymatic systems	
Trophic and hormonal effect	
Flowering is stimulated	→ Cut flowers
Improved fruit setting	→ Vegetables, fruits
Improved size and colouration of fruits	→ Several vegetables, fruits
Higher Brix grade	→ Fruits with high sugar content
Greater vitamin content	→ Vegetables, fruits



Apart from these it also contains **alginate, betaine, sterols**, other **polysaccharides** and traces of **amino acids** for overall growth, development and plant resistance.

Mode of action: When applied to the plants, the exogenous auxin content of Basfoliar Kelp O SL travels towards the root system and helps in profused root growth and development, for better nutrient uptake, whereas, strong root system helps in increased cytokinin synthesis which travels from root to shoot for better shoot development.



Role of Basfoliar Kelp O SL

It helps in

- **vigorous root growth** and **profused root hairs** for better crop establishment and nutrient uptake from soil respectively.
- foliage (leaf) growth for **better photosynthesis** in vegetative stage
- **flower setting** and development
- fertilisation through **pollen tube elongation** for **better fruit setting** and development
- increasing the **size of the fruit & reduces leaf and fruit drop**
- improving **organoleptic qualities** of fruits and vegetables as **colour, flavour, texture and keeping quality**

Benefits of kelp seaweed extract

- A unique ratio of the natural phyto-hormones auxin and cytokinin to enhance root development.
- The extraction process ensures full efficiency of the natural ingredients from the seaweed extract (Ecklonia maxima).
- Improvement of plant growth and stress resistance (e.g. diseases, drought and salinity).
- Higher yield and quality from boosted crop growth

Special features: Basfoliar Kelp O SL is an organic product with **Ecocert certification** and highly recommended for organic farming also.

Physical properties:

Colour	Yellowish
pH (1:10 in water)	4.6
Physical appearance	Liquid

Recommendation for application:

Foliar application	: 2.5-3.0 ml/lt
Fertigation	: 500-1000 ml/acre
Drenching and root/fruit dipping	: 10 ml/lt*

* ESS for grapes- 1.0 Lt/acre at 4 mm stage and 800 ml/acre at 8 mm stage

Minimum time between applications: 10–15 days (plant needs time to restore hormonal balance).



Miscibility: This product is miscible with virtually all the common plant protection agents; Mixtures with strong alkalis or mineral oils should be avoided. A simple compatibility test with the intended mixing partners is recommended before practical use.

Storage: This product can be stored in the unopened original container for several years. Opened containers should be used up or be resealed immediately. Any crystallisation of the product that may occur during prolonged storage does not influence the quality of the product.



EXPERTS FOR GROWTH

Crops	Stage of application	Dose of application/Ltr. of water/stage (For spray)
Fruit Crops		
Apple	Before flowering	3 ml
	Fruit development	3 ml
	1 month before maturity	3 ml
Banana	10 days after transplanting	1 Lt./acre (For drenching)
	120 days after transplanting	3 ml
	180 days after transplanting	3 ml
	210 days after transplanting	3 ml
Custard apple	20 days Before flowering	3 ml.
	At fruit setting	3 ml.
Grape	20-25 days after pruning	3 ml.
	4 mm stage	3 ml.
	8 mm stage	3 ml.
	12 mm stage	3 ml.
	16 mm stage	3 ml.
Grape	4 mm stage	10 ml. (for dipping)
	8 mm stage	10 ml. (for dipping)
	12 mm stage	10 ml. (for dipping)
	16 mm stage	10 ml. (for dipping)
Guava	20 days Before flowering	3 ml.
	At fruit setting	3 ml.
Litchi	20 days before flowering	3 ml.
	At Fruit setting	3 ml.
Mango	At Fruit setting (Mustard stage)	3 ml.
	Fruit development (50 mm stage)	3 ml.
	15 days before maturity	3 ml.
Orange/ citrus	At Pre bloom	3 ml.
	At Petal fall	3 ml.
	15 days after petal fall	3 ml.
Pine apple	Before flowering	3 ml.
	Fruit setting	3 ml.
	Fruit development	3 ml.
	Before ripening	3 ml.
Pomegranate	Before flowering	3 ml.
	At fruit setting	3 ml.
Watermelon/ musk melon/ cucumber	Before flowering	3 ml.
	Fruit setting	3 ml.
	20ys before ripening	3 ml.
Plantation Crops		
Arechanut	Before flowering	3 ml.
	At fruit setting	3 ml.
Black pepper	Before flowering	3 ml.
	Fruit setting	3 ml.
	Fruit development	3 ml.
	20 days before maturity	3 ml.

Crops	Stage of application	Dose of application/Ltr. of water/stage (For spray)
Cardomom	Before flowering	3 ml.
	At fruit setting	3 ml.
	20 days before maturity	3 ml.
Coffee	Before flowering	3 ml.
	Fruit setting	3 ml.
	20 days before maturity	3 ml.
Tea	Vegetative stage (repeated application at 20 days interval)	3 ml.
	After leaf picking	3 ml.
Vegetable Crops		
Chilli/ Capsicum/ Tomato/Brinjal	At transplanting	3 ml.
	Fruit setting	3 ml.
Cabbage/ Cauliflower	Fruit development	3 ml.
	Before curd formation	3 ml.
Okra	Before flowering	3 ml
	2 application after first picking at 20 days interval	3 ml.
Onion/Garlic	Root dipping before transplanting	10 ml (for dipping)
	Bulb initiation	3 ml.
Potato	Tuber dipping	10 ml (for dipping)
	Tuber initiation	3 ml
	Tuber bulking	3 ml
Turmeric/ Ginger	Planting material (rhizome) dipping	10 ml (for dipping)
	Rhizome development	3 ml
	30 after rhizome development	3 ml
Field Crops		
Cotton	Before flowering	3ml.
	Boll development stage	3ml.
Paddy	Root dipping at transplanting	10 ml (for dipping)
	Panicle initiation	3 ml
Maize	At knee high	3 ml
	Before tasseling	3 ml
Sugarcane	Set treatment	10 ml (for dipping)
	45 days after transplanting	3 ml
Pulses & Oil seeds		
Gram/ Green/ Black gram	Mid vegetative	3 ml.
	Pod development	3 ml
Ground nut	Peg formation	3 ml.
	Seed development	3 ml
Red gram	Before flowering	3 ml
	Pod setting	3 ml
Rape seed & Mustard	Before flowering	3 ml
	Siliqua formation	3 ml
Soybean	Before flowering	3 ml.
	Pod initiation	3 ml

