

KELPAK BENEFITS

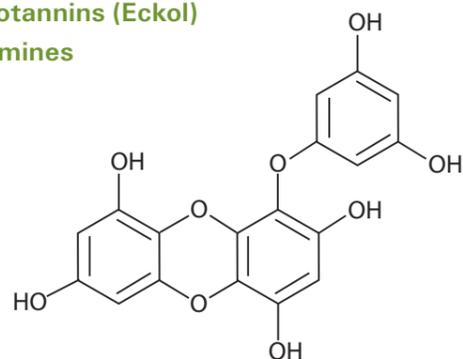
- Improved tree health
- Increased tolerance to heat and drought
- Increased tolerance to water salinity
- Improved fruit set/fruit per tree
- Increased fruit weight
- Better fruit sizing/packout
- Increased profit for the grower
- Suitable for organic production

KELPAK APPLICATION

- Seed coating
- Planter application
- Root dip
- Soil drench
- Drip irrigation
- Foliar spray conventional, electrostatic or aerial

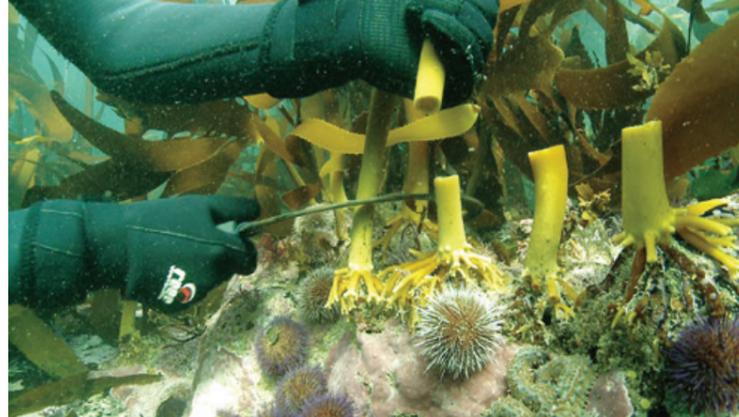
Kelpak is a composite of natural actives including:

- Alginates
- Brassinosteroids
- Macro and micro nutrients
- Phlorotannins (Eckol)
- Polyamines

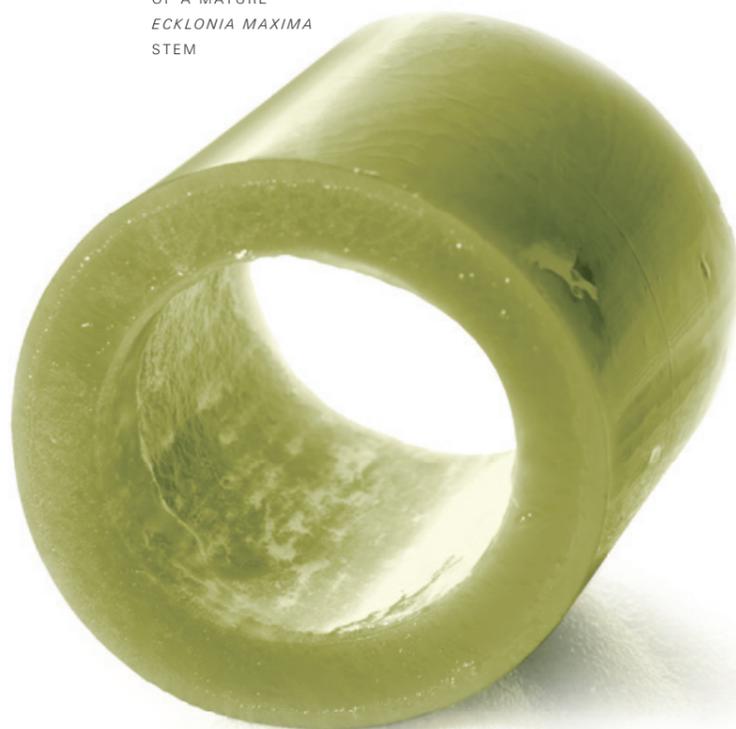


Ecklonia maxima is a seaweed containing nutrients, alginates and a profusion of active compounds that enable it to grow rapidly in its extreme ocean environment.

When carefully extracted to preserve these active ingredients, the various compounds work in concert to provide the numerous beneficial physiological responses that result when Kelpak is applied on avocados.



ACTUAL DIAMETER OF A MATURE *ECKLONIA MAXIMA* STEM



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THE SOURCE

The fast growing brown kelp species *Ecklonia maxima*, growing up to eight metres from base to the tip of the frond, is harvested by divers off the rugged coastline of southern Africa. This giant kelp species contains the unique active ingredients essential to Kelpak's excellent performance on crops.



The Cold Cellular Burst extraction method preserves the delicate compounds in the kelp's cell sap

THE PROCESS

The harvested seaweed is sorted, cut and washed. The cleaned material is then inspected and progressively reduced. Due to the compressible nature of the *Ecklonia* particles, they can be subjected to extremely high pressures. The Cellburst Process induces a degree of potential energy into each particle. When passed at high velocity through to a low pressure zone, it effects the instant release of this energy, where the resulting expansion exceeds the elastic limit of the cell wall of the kelp, causing it to rupture and release its valuable contents. This unique Kelpak process is known as Cold Cellular Burst Technology, a proprietary method developed and refined over the last four decades.

A UNIQUE PRODUCT

Kelp Products International's mission is to provide cost effective benefits for our customers. Kelpak Liquid Seaweed Extract has been helping farmers improve their crop output for four decades. Global scientific trials prove that Kelpak's unique activity delivers consistent and significant benefits to the farmer.



PLANT GROWTH IN HARMONY WITH NATURE

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LIQUID SEAWEED CONCENTRATE



Kelpak



Kelpak is scientifically proven to increase resistance to abiotic stresses and marketable yield in avocado.

Scientific trials around the globe show exceptional profit increases for the grower. With Kelpak Liquid Seaweed Biostimulant applied, overall pack-out improved due to larger fruit. Kelpak treated blocks with 2 foliar applications at 4 L/ha, provided a combined average income increase of 57%.



+9%

Packout increase on Hass
Less fruit per 4Kg box

| 2 X 4 L/ha foliar spray – South Africa 2020-2022 | | 15 l/ha Soil fertigation 2-3 weeks after fruit set & again 4 months later – Chile 2016-2019 | | | |
|--|-------------------------------|---|---|--|--|
| | | Low water salinity - average over 3 years | | High water salinity - average over 4 years | |
| | | | | | |
| Control Kelpak | Control Kelpak | Control Kelpak 15 L/ha Kelpak 30 L/ha | Control Kelpak 15 L/ha Kelpak 30 L/ha | | |
| Hass / Fruit per tree | Hass / Ton per hectare | Panquehue region / Ton per hectare | Panquehue region / Ton per hectare | | |

CONTACT

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Recommended Application

- Spray a 0.4% Kelpak® solution (4 L/1000L of water) at 50% flowering
- Repeat application approximately 14 days later, at fruit set

Scan to watch our video

View the protocols used and excellent results achieved during independent field trials conducted on Hass and Maluma avocados in the Levubu region in South Africa.



kelpak