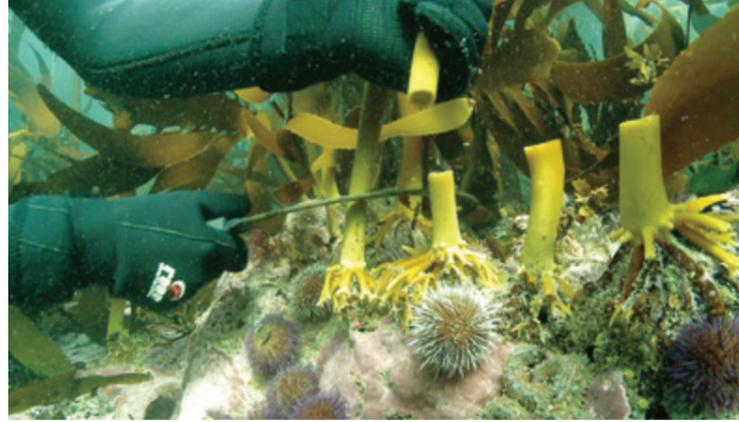


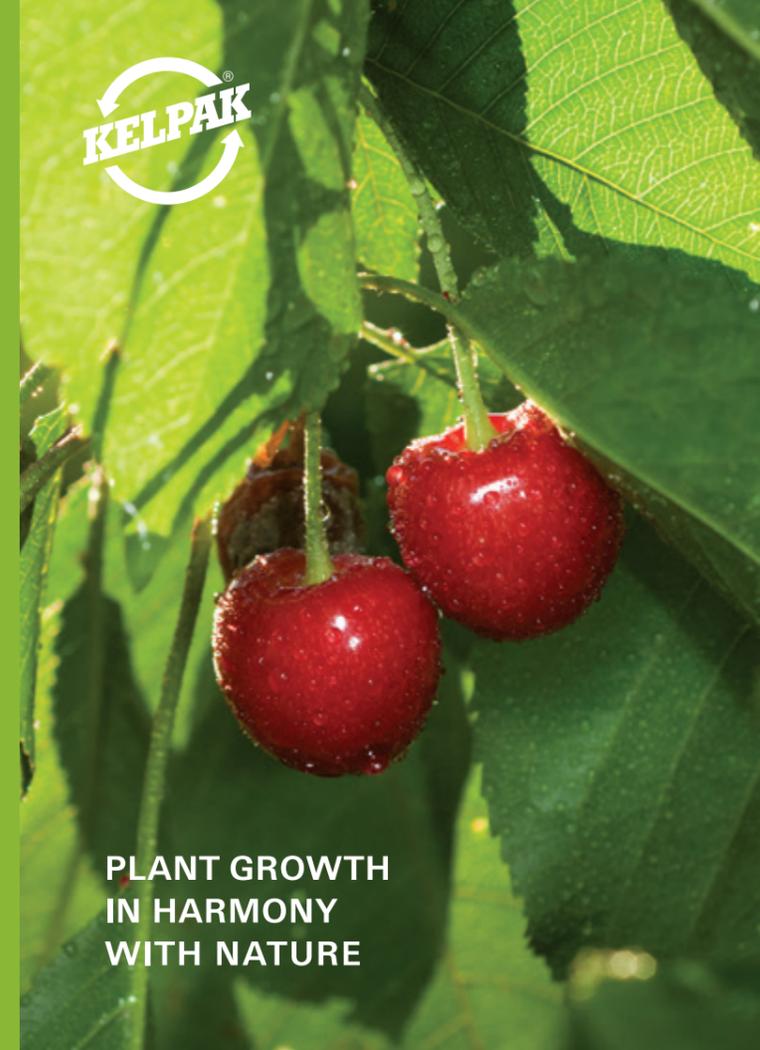
## KELPAK BENEFITS

- Reduces transplant shock in nursery trees
- Reduces abiotic stress
- Improved pollen germination
- Increased pollen tube elongation
- Better fruit retention
- Increases fruit weight and marketable yield
- Certified for use in organic crop production



## THE SOURCE

The fast growing brown kelp species *Ecklonia maxima*, growing up to eight metres from base to 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.



PLANT GROWTH  
IN HARMONY  
WITH NATURE

## KELPAK APPLICATION

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

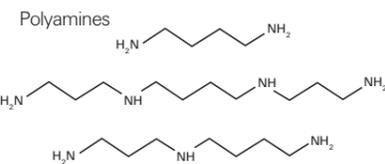
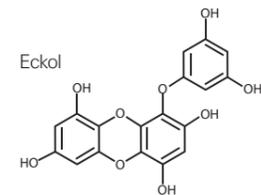
ACTUAL DIAMETER  
OF A MATURE  
*ECKLONIA MAXIMA*  
STEM



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

## Kelpak is a composite of natural actives including:

- Phlorotannins (polyphenols)
- Polyamines
- Alginates
- Macro and micro nutrients



Visit  
our website  
for more  
information



These compounds act in concert, contributing to numerous favourable physiological responses

## THE PROCESS

The harvested seaweed is sorted, cut and washed. The cleaned material is then inspected and progressively reduced. The compressible nature of the *Ecklonia* particles allows them to 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 and a half decades.

## A UNIQUE PRODUCT

Kelp Products International's mission is to provide cost effective benefits for our customers. Kelpak plant biostimulant has been helping growers improve their crop output for over four decades with global scientific trials proving that Kelpak's unique activity delivers consistent and significant benefits.



NATURAL  
plant  
biostimulant

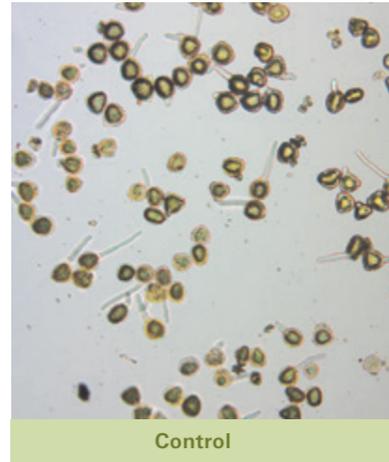


# Kelpak

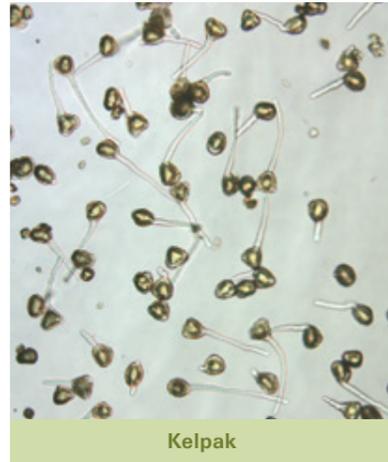




Watch how Kelpak improves pollen tube growth



Control



Kelpak

Kelpak trial on cherry pollen growth



TREATMENTS	POLLEN GERMINATION	POLLEN TUBE LENGTH
	%	µm
Control	47.0 ± 1.6 b	71.3 ± 9.2 b
Kelpak 0.1%*	64.0 ± 3.5 a	128.6 ± 9.2 a
P-value	≤ 0.001	≤ 0.001

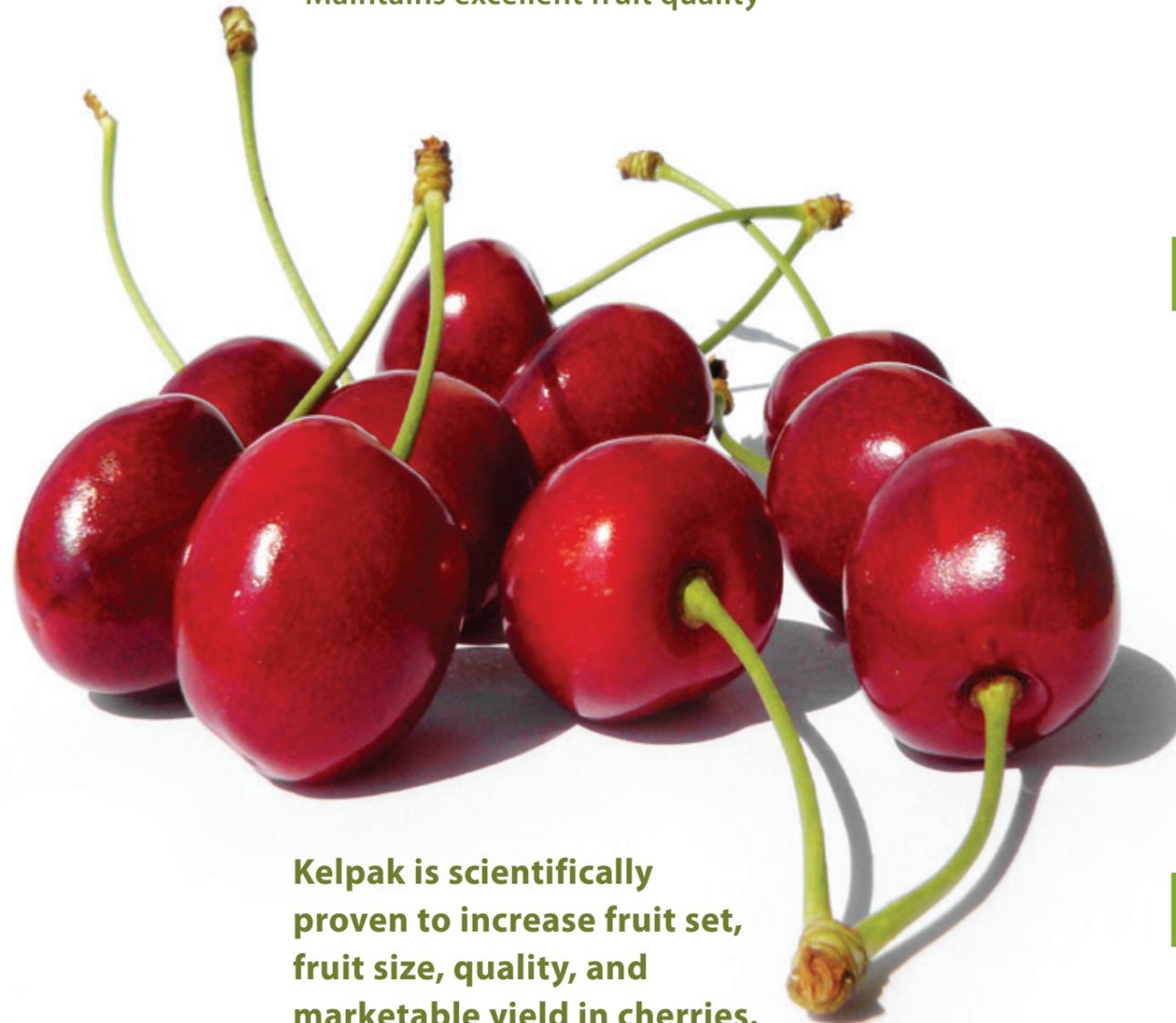
\*N.B. 0.1% dilution used on trial microscope slide - Kelpak's recommended application is 0.3%

Effect of Kelpak on cherry yield

LOCATION & YEAR OF STUDY	APPLICATION RATE PER 100 L OF WATER	VARIETY	YIELD (ton/ha)		IASGP (%)
			CONTROL	KELPAK	
California	3-5 sprays at 300 ml/100 L	Bing	10.8	14.8	37
France	3 sprays at 300 ml/100 L	Lapins	6.5	8.5	31
Chile	3-5 sprays at 300 ml/100 L	Bing	12.7	16.5	30
Chile	3 sprays at 300 ml/100 L	Lapins	26.4	28.3	7

IASGP = Increase above standard grower practice

- Improves pollen germination
- Increases fruit set
- Increases fruit retention
- Increases fruit diameter and weight
- Improves marketable yield
- Maintains excellent fruit quality



**Kelpak is scientifically proven to increase fruit set, fruit size, quality, and marketable yield in cherries.**

### RECOMMENDED RATE

Spray 3 L/ha between white bud and full flower, at petal fall and at shuck split. Spray at straw colour stage and repeat 7-10 days later

### OPTIMAL APPLICATION

- Do not dilute more than 1:300 with foliar application
- Do not dilute more than 1:500 with drip application, apply as a pulse during last 10 minutes of irrigation cycle
- Maintain pH below 7
- Compatible with most agrochemicals



# Kelpak