

# cereal crops



- Increases vigour of root and shoot growth
- Improves nutrient uptake
- Increases culm diameter and reduces lodging
- Improves resistance during drought conditions
- Produces higher quality grain and yields



# Kelpak

Kelpak is a natural biostimulant manufactured from the brown kelp *Ecklonia maxima*, found on the west coast of South Africa. Kelpak is produced using a cold cellular burst extraction method to preserve the delicate compounds in the cell sap. The end product significantly improves overall plant growth and crop yield.

**A global leader in seaweed products for over forty years**





### Kelpak seed application on cereals

COUNTRY	NO. OF TRIALS	CROP	RATE	CROP	AVE YIELD INCREASE
Mid-west USA	2	wheat	4 ml/kg	Seed dressing	9%
Mid-west USA	4	maize	4 ml/kg	Seed dressing	5%*
South Africa	1	wheat	5 ml/kg	Seed dressing	7%
South Africa	2	maize	5 ml/kg	Seed dressing	8%
Brazil	4	maize	2.5 ml/kg	Seed dressing	4%*
South Africa	2	maize	5 ml/kg + 2 L/ha	Seed dressing + foliar V4	15%
Brazil	4	maize	2.5 ml/kg + 0.5 L/ha	Seed dressing + foliar V6	7%*
South Africa	2	maize	1 L/ha	In-furrow	22%
Mid-west USA	12	maize	1 L/ha	In-furrow	4%*

\*high yields > 11 t/ha

### Kelpak foliar application on cereals

COUNTRY	NO. OF TRIALS	CROP	RATE (L/ha)	TIMING BBCH	AVE YIELD INCREASE
South Africa	+20	wheat	2	13-15	11%
Zimbabwe	6	wheat	2	13-14	6%
Australia	4	wheat	2	13-15	10%
Poland	4	wheat	1.5-2	14 or 32	10%
UK	2	wheat	2	14	8%
South Africa	7	maize	2	14-15	13%
South Africa	1	silage maize	2	15	23%
Poland	2	silage maize	1.5-2	32	25%
South Africa	7	barley	2	13-15	15%
Poland	2	barley	1.5-2	13-14	10%
UK	1	barley	2	13-14	17%

### RECOMMENDED APPLICATION RATE

**Seed dressing** Apply 5 ml/kg seed prior to planting

or

**In-furrow** 1 L/ha applied as band spray

and/or

**Foliar Spray** 2 L/ha at 4 to 5-leaf stage

Kelpak is manufactured using the unique cold Cellburst extraction process

