Product Technical Sheet – Biostimulants & Quality Improvement

Kelpak®

An organic biostimulant containing concentrated extract of the kelp species *Ecklonia maxima*.

Crops

Most agricultural crops, including combinable crops, legumes, potatoes, sugar beet, vegetables, bulbs and grassland.

Use

To enhance root growth which improves crop establishment leading to higher yield and better quality. Kelpak helps to increase plant tolerance to abiotic stress.

Pack Sizes

5, 25, 1050 litres

Typical Analysis (per litre)							
Plant Hormones							
Auxins	11.0mg	Cytokinins	0.03mg				
Nutrients							
Proteins	3.0g	Magnesium	200mg	Copper	0.2mg	Molybdenum	0.38mg
Carbohydrates	16.9g	Calcium	800mg	Fluorine	0.4mg	Nickel	0.43mg
Nitrogen	3.6g	Sulphur	0.64mg	Iodine	8.6mg	Sodium	80mg
Phosphorus	8.2g	Boron	0.24mg	Iron	13.6mg	Strontium	0.4mg
Potassium	7.2g	Cobalt	0.3mg	Manganese	8.4mg	Zinc	4.2mg
Amino Acids							
Alanine	280mg	Hydroxyproline	36mg	Methionine	72mg	Serine	208mg
Aspartic Acid	316mg	Isoleucine	92mg	Ornithine	20mg	Threonine	152mg
Glycine	140mg	Leucine	180mg	Phenylalanine	8mg	Tyrosine	332mg
Glutamic Acid	20mg	Lycine	272mg	Proline	184mg	Valine	150mg
Vitamins							
B1	0.91mg	B2	0.08mg	C	20mg	E	0.68mg

Kelpak – Function

Kelpak is a kelp concentrate which is manufactured using a unique cell-burst process without heat, chemical digestion or dehydration. This patented process ensures maximum retention of the auxins and cytokinins found in this species of kelp. Kelpak also contains a wide range of nutrients, vitamins and amino acids.

Kelpak®

Directions for Use

Apply 1.5-3 l/ha for most crops, 3-4 l/ha for potatoes, in a minimum of 200 l/ha water.

The spray tank should be filled with half the required water. After shaking the container, measure the required amount of Kelpak and add to the tank whilst maintaining constant agitation. Add remaining water to correct dilution and spray.

Crop	Timing	Rate l/ha	Comments
Cereals	2 – 5 leaf stage (GS 12-15)	1.5 - 2	Increases tillering, root growth, protects against stress. An optional 2nd application may be made 3-6 weeks later
Milling Wheat	Grain Milky Ripe (GS 75)	1	Apply with Hypro or Protein Plus to improve Hagberg Falling Number and protein
Oilseed Rape **Legumes**	As soon as spring growth is evident	2.5	Promotes root growth, protects against stress
Potatoes	2 weeks after emergence	3 - 4	Use the higher rate on backward crops. Promotes root growth, protects against stress. Improves yield of both saleable ware and seed. Reduces the impact of PCN.
Sugar beet	4 – 8 true leaves	3	Promotes root growth, protects against stress, improves overall yield. May have a beneficial effect on sugar content
Vegetables **Modules**	4 true leaves 1 – 2 weeks after transplant	2 - 3	Repeat applications 14-21 days later to stimulate growth and improve shelf life. Maximum dose per crop is 6 litres
Grassland	Early spring	2	Promotes vigorous spring growth, reduces die-back in late summer, aids recovery after grazing/cutting, helps establishment of new leys. Repeat mid-summer or at re-tillering

Notes on Compatibility

Do not tank mix with cytokinin products as this will negate the benefit of auxin stimulation. Do not tank mix with copper based fungicides. For further information on compatibility and tank mixing, and for physical compatibility with pesticides refer to the website www.omex.co.uk

Organic Crops – Kelpomex

For growers of certified organic crops there is a specific organic approved formulation available; Kelpomex, see the website www.omex.co.uk for details.

For more information contact: OMEX Agriculture Ltd, Estuary Road, King's Lynn, Norfolk, PE30 2HH

Web www.omex.com · **Email** foliars@omex.com · **Tel** 01553 760011