

BIOSTIMULANT RANGE

Contains IODINE Protein to increase plant Health

Turbo-cell Rootstim™ IODINE

GROWTH STIMULANT - ROOT DEVELOPMENT

Turbo-cell Rootstim™ Iodine is a liquid seaweed and protein hydrolysate based growth stimulant, specifically designed to promote root development and general plant health and growth

Key Benefits

ROOT DEVELOPMENT

Natural growth stimulants for enhanced root development

STRESS RESISTANCE

Increased stress tolerance of newly transplanted seedlings

INCREASE YIELD

Stimulates root development, flowering and fruit setting

Key Features

- Stimulates root development
- Increase uptake of water and nutrients
- Increased stress tolerance
- Increase yield

Composition	% w/v
Ecklonia maxima	12%
Protein hydrolysate	6%
Iodine (I)	0.5%
Nitrogen (N)	3.8 %
Phosphorous (P ₂ O ₅)	13 %
Potassium (K ₂ O)	0.19 %
Zinc (Zn)	0.1%
Iron (Fe)	0.2 %
Copper (Cu)	0.1 %
Manganese (Mn)	0.1 %
Boron (B)	0.2 %
Molybdenum (Mo)	0.01%
Density	1.13 – 1.15
pH	4 – 5

Characteristics

Turbo-cell Rootstim™ Iodine contains auxin-rich Ecklonia maxima seaweed extract and phosphorous that generate a strong stimulus for the formation of new growth points in the roots of the treated plants.

Contains Iodine - Iodine improve Plant Growth and Development and Modulate the Plant Transcriptome. Iodine is important for a plant's life as it is regularly in variable amounts in the soil, water, and atmosphere.

Turbo-cell Rootstim™ Iodine allows an extra beneficial amount of Pure Iodine that helps regulate the expression of several genes, mostly involved in the plant defense response, suggesting that iodine protects the treated plant against both biotic and abiotic stress.

Iodinated proteins identified are also associated with the chloroplast and are functionally involved in the improvement of the plant photosynthetic processes.

Foliar application:

Crop	Rate/ha	Remarks	Crop	Rate/ha	Remarks
Berries	2 - 5 L 2 - 5 L	I. Apply at the start of the growing season. II. Repeat 2 – 3 times with 14 day intervals. Apply in 300 L water/ha.	Oil Seed Crops	2 - 5 L 2 - 5 L	I. Apply 2 – 3 weeks after emergence. II. Apply 14 days later. Apply in 200 L water/ha.
I. Blueberries, Blackberries, Raspberries			I. Groundnuts		
II. Strawberries	1 - 3 L 1 - 3 L	I. Apply 2 weeks after transplant. II. Repeat 14 days later, repeat 2 – 3 times. Apply in 200 L water.	II. Soy Beans	2 - 5 L 2 - 5 L	I. Apply 2 – 3 weeks after emergence. II. Apply 14 days later. Apply in 200 L water/ha.
Bulb, Tuber & Root Crops	1 - 3 L 1 - 3 L	I. Apply 2 weeks after transplant. II. Repeat 14 days later, repeat 2 – 3 times. Apply in 200 L water.	Pineapples	3 - 5 L 3 - 5 L	I. Apply at the start. II. Repeat application after 14 days. Apply in 200 L water/ha.
I. Onions, Garlic			Pome fruit	4 - 10 L 4 - 10 L	I. Apply at the start of the growing season. II. Repeat 2 – 3 times with 14 day intervals. Apply in 1000 – 2000 L water/ha.
II. Potatoes, Sweet Potatoes	2 - 5 L 2 - 5 L 2 - 5 L	I. Start of emergence. II. Apply 1 week after 100 % emergence. III. Apply 14 days later. Apply in 500 L water/ha.	Apples, Pears, Quinces		
III. Beetroot, Carrots	2 - 3 L 2 - 3 L	I. Apply 1 week after emergence. II. Apply 14 days later. Repeat application 14 days later if required. Apply in 300 L water/ha.	Solanaceous Crops	1 - 3 L 1 - 3 L	I. Apply 2 weeks after transplant. II. Repeat 14 days later, repeat 2 – 3 times. Apply in 200 L water.
Cotton	2 - 5 L 2 - 5 L	I. Apply 2 – 3 weeks after emergence. II. Apply 14 days later. Apply in 200 L water/ha.	I. Chilies, Paprika, Peppers, Tomatoes		
Cucurbits	1 - 3 L 1 - 3 L	I. Apply 2 weeks after transplant. II. Repeat 14 days later, repeat 2 – 3 times. Apply in 200 L water.	Stone Fruit	4 - 10 L 4 - 10 L	I. Apply at the start of the growing season. II. Repeat 2 – 3 times with 14 day intervals. Apply in 1000 – 2000 L water/ha.
Cucumbers, Marrows, Melons, Pumpkins, Baby marrows			Apricots, Nectarines, Peaches, Plums		
Grain Crops	2 - 5 L 2 - 5 L	I. Apply 2 – 3 weeks after emergence. II. Apply 14 days later. Apply in 200 L water/ha.	Subtropical Fruit	4 - 10 L 4 - 10 L	I. Apply at the start of the growing season. II. Repeat 2 – 3 times with 14 day intervals. Apply in 1000 – 2000 L water/ha.
I. Corn, Sorghum			I. Avocados		
II. Rice, Wheat	2 - 5 L 2 - 5 L	I. Apply 2 – 3 weeks after emergence. II. Apply 14 days later. Apply in 200 L water/ha.	II. Guavas	4 - 7 L 4 - 7 L	I. Apply at the start of the growing season. II. Repeat 2 – 3 times with 14 day intervals. Apply in 300 – 500 L water/ha.
Grapes	2 - 5 L 2 - 5 L	I. Apply at 2 – 5 cm shoot length. II. Apply 14 days later. Apply in 500 – 750 L water/ha.	III. Lychees, Mangoes	4 - 10 L 4 - 10 L	I. Apply at the start of the growing season. II. Repeat 2 – 3 times with 14 day intervals. Apply in 1000 – 2000 L water/ha.
Table and Wine Grapes			VI. Citrus	4 - 10 L 4 - 10 L	I. Apply at the start of the growing season. II. Repeat 2 – 3 times with 14 day intervals. Apply in 1000 – 2000 L water/ha.
Leafy Vegetables	2 - 5 L 2 - 5 L	I. Apply 2 – 3 weeks after emergence. II. Apply 14 days later. Apply in 200 L water/ha.	Pomegranate	4 - 10 L 4 - 10 L	I. Apply at the start of the growing season. II. Repeat 2 – 3 times with 14 day intervals. Apply in 1000 – 2000 L water/ha.
Lettuce, Spinach					
Legumes	2 - 5 L 2 - 5 L	I. Apply 2 – 3 weeks after emergence. II. Apply 14 days later. Apply in 200 L water/ha.			
I. Dry Beans, Peas					

Drench application:

Crop	Rate/ha	Remarks
All Crops	5 - 10 L	Apply through irrigation water or apply directly to the soil with suitable applicator. Use sufficient water to wash into root zone. Use the lower dosage on younger plants and higher dosage for mature plants. Repeat application every 14 – 21 days as necessary.
Young trees	2 % solution	Add 1 – 5 L solution as a soil drench or into the planting hole before planting.
Seedlings	2 % solution	Drench seedlings or seedling trays for 5 – 10 minutes in solution before transplanting.

Important Note:

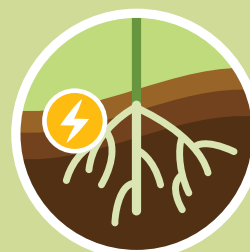
The indicated crops and recommended rate of application mentioned in this Product informative sheet may not be applicable in the country where the product is intended to be used. User must refer and use the product only as per the official registration at the country of use and the approved uses and rates by the authorized authorities. The supplier will not be responsible or liable if the product is used on crops which are not listed on the official label as approved the ministry of agriculture at the country of use.



Suitable for foliar applications from seedling to mature stage with all common applicators



Suitable for soil applications via the irrigation systems, soil drench or direct sprays to the soil



The natural growth stimulants, auxins and cytokinins will enhance root development

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