

GROGREEN® FEED&SHINE® VEGETABLES

Research and documentation 2018



Foliar feed for vegetables

Available in a ready-to-use or concentrated formulation.

Description

A purposefully formulated natural solution to ensure that seedlings and young vegetable plants are provided with a better chance of survival as they get established, reducing losses and increasing plant productivity.

Objective

Feed & Shine Vegetables supplies edible garden plants with a targeted blend of amino acids, natural plant extracts, microbial amendments and nutrients that will feed and stimulate plants in their early stages of life.

Benefits

All young plants are prone to air and soil-borne diseases during their early establishment phase, so this is a critical time for the seedlings to both survive and thrive. The Feed & Shine Vegetables solution is a plant fertiliser that goes beyond just the basic nutrition of the vegetable plant to assist in the physiological processes that keep the plants robust, with the necessary strength and vigour. Together, the micronutrients and plant extracts produce healthy leaf growth and a strong root system. The amino acids and carbohydrates contents provide the plant with the necessary building blocks for natural growth, whilst the organic surfactant ensures effective solution uptake through the leaves.

Commercial Summary of Trial Outcomes

The GroGreen Feed & Shine Vegetables was successfully applied to a range of vegetable and herb plants without any phytotoxicity occurring and most often resulted in enhanced plant growth, in spite of the less favourable growth conditions late in the growing season.

The growth and vigour of some plant types responded more favourably to the GroGreen Feed & Shine Vegetables product than others, with no plants showing a negative growth response.

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Being exclusively made from plant ingredients such as vinasse, molasses and seaweed extract, this product is environmentally friendly and suitable for organic cultivation systems.

May be applied to all types of edible crop plants in the garden, greenhouse or containers.

+ Environmentally Friendly

An extra benefit is to the environment, as Feed & Shine Vegetables does not have any effect on the surrounding environment and the solution is dispersed naturally when used by the plant, leaving no residues damaging to the environment.

From trials data, the recommended applications:

Plant type:	Vegetable seedlings and young plants, of all types and varieties										
Dosage:	Spray lightly on all leaves up till run-off										
Rate:	Every 7 - 10 days during the early establishment and growth phases										
Seasonality:	March to September										
Conditions:	Apply to dry leaves, in dry weather though NOT in direct sunlight.										
Mixing ratio:	1: 50 [0.5 litres concentrate mixed in 25 litres of water] NB 1 cap full (30 ml) is enough for 1.5 litres of water For 750 ml RTU refill; add 1/2 (50%) of a capful (15 ml) into bottle										
Methods:	Shake mixture well before dilution Apply using a garden sprayer with a nozzle for a fine droplet size Once diluted, use mixture within 24 hours										
Storage:	Keep the concentrate product in a frost-free place, below 30° C										
Non plant nutrition:	<table border="0"> <tr> <td>Seaweed extract</td> <td>10.0%</td> </tr> <tr> <td>Amino acids</td> <td>4.7%</td> </tr> <tr> <td>Carbohydrates</td> <td>3.2%</td> </tr> <tr> <td>Microorganisms</td> <td>2.0%</td> </tr> <tr> <td>Natural surfactant</td> <td>2.0%</td> </tr> </table>	Seaweed extract	10.0%	Amino acids	4.7%	Carbohydrates	3.2%	Microorganisms	2.0%	Natural surfactant	2.0%
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Micronutrients (Mg, Ca, S, B, CU, Fe, Mn & Zn)	1.7%										
pH value:	7.0										
Colour:	Dark brown										



Lettuce, untreated control.



Feed & Shine fortnightly.



Tomatoes, untreated control.



Feed&Shine weekly.



Pepper, untreated control.



Feed&Shine weekly.

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Trial data:

Experimental trials conducted on the product by independent research.

A replicated trial on several vegetable types was conducted in 2019 demonstrating product efficacy, as recorded below:

Plants:	Peppers, Lettuce, Spinach, Beetroot, Pak-choi, cabbage and tomatoes.
Type:	Re-potted seedlings, from plugs
Numbers:	140 plants, 28 per treatment
Treatments:	5; untreated control +4 rates of F & S
Replicates:	4 plants each plant type / treatment
Final Conclusions:	No phytotoxicity on treated plants
Site:	Evesham Nursery, UK
Dates:	April to June 2019
Assessments:	- Plant vigour scores - Phytotoxicity observation
Graphs (below):	Positive growth benefits seen from application of Feed & Shine Vegetables



Lettuce, untreated control.



Feed & Shine fortnightly.



Spinach, untreated control.



Feed & Shine weekly.

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Trial treatments with replicated plants.

Typical diseases



Fusarium



Bladlus



Skimmel



ESSENTIAL PLANT OIL
TECHNOLOGY

