



Ultra Green RootProm

A lifetime's health insurance for significantly increased plant growth

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Introduction

Mycorrhizal fungi have been living with plants long before dinosaurs existed. Indeed, scientific studies show they could be a major reason why land plants were able to establish themselves some 400 million years ago.

Over 90% of all plants need these fungi to survive. Therefore it seems only logical that adding them in when raising seedlings will enable nature to allow the plant to reach its optimum growth.

Ultra Green RootProm's unique mycorrhiza formulations colonise the plant's roots by enlarging the plant's fungal root system and increasing the volume of soil explored by the plant by over 500 times.

Ultra Green RootProm therefore gives your plants the best start in life by providing an ongoing, balanced control of nutrient uptake from the moment the plants' roots are treated.

Healthier, stronger plants mean less investment in stress treatment control, faster growing crops, better yields, quicker returns, and the potential for significantly improved profits. In addition, Ultra Green RootProm is natural and eco-friendly.

The effects of treating your plants with Ultra Green RootProm can be seen within 1-3 months depending on the plant and its typical speed of growth rate.

We have used Ultra Green RootProm successfully and routinely on most commodity crops from tea, coffee, cassava, jatropha and oil palm. It is now an accepted sustainable plant practice which can also help lock up carbon within the fungi in the soil as long as the plant lives. The value of adding Ultra Green RootProm at the outset of the plant's life is a lifetime's health insurance for significantly increased growth.

The grower can expect savings on irrigation and initial fertilizer inputs as well uniform crop growth in the nursery and enhanced nutrient contents of plants. For [jatropha](#) better tolerance of water stress is an added bonus. Faster growth in the nursery can also lead to earlier outplant times saving nursery costs. The treatment of [oil palm](#) or [Millettia pinnata](#) can help produce more robust plants, capable of surviving transplant shock better in poorer soils and with a plant nutrition system for life.

Future-proof the health and growth of your crops today by reaping the benefits of Ultra Green RootProm now.

The product is registered in the EU and will be sent with phytosanitary certificate and certificate of analysis.

For prices and shipping details contact -
Call Dr John Dodd on + 44 (0) 778 611 5081 or email him at
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Ultra Green RootProm Works

Numerous scientifically-controlled test results prove that Ultra Green RootProm works.



These pictures were taken during controlled tests in the lab. The plants in the photos on the right-hand side were treated with Ultra Green RootProm and the smaller plants on the left were not. The evidence speaks for itself.

Field Trials

Because Ultra Green RootProm's unique mycorrhizal formula enhances a plant's ability to tolerate the diseases found in soils and more generally increases its survival rate, a significant reduction in chemical fertilizers and other inputs are required, which in turn generates greater yields and better profits.

Coffee grown in acid infertile soils had 50-60% better survival rates when outplanted following treatment with Ultra Green RootProm's quality consortium of mycorrhizal fungi. Similar results were found in tea, as well as temperate tree seedlings.

Plants grown in field soils such as Cassava and Sorghum can benefit from treatment although the economics of benefits on yields should be compared. The image below shows better growth of cassava (foreground right) and Sorghum (background right) in acid infertile soils in tropics.



Cassava

Of over 50 field trials conducted in South America using Ultra Green RootProm, the average yield increase of root tubers was as follows:

Very infertile acid soils	24% (Tropical Lowlands)
Moderately fertile acid soils	14% (medium altitude tropics)

Flowering Plants

Many plants intended for cut flower production can benefit from the use of Ultra Green RootProm when grown in greenhouses or mesh houses. Results have shown increased yields of the flowers in such systems and reduced requirement for chemical fertilizers.

Growth Increases in Tropical Soil Using Ultra Green RootProm

PLANT TYPE	GROWTH INCREASE
Citrus	200-400%
Acacia spp.	100-300%
Carica papaya	100-1000%
Psidium guava	360%
Coffee	100-800%
Passiflora	up to 1000%
Tea (variety dependent)	100 – 200%
Cacao	100%

Ultra Green RootProm can also help wean micro-propagated plants like pineapple and other crops as well as establish faster nursery growth conditions.

Tropical Timber Trees

Greater biovolume of trees in acid tropical soils is also common compared with untreated with rates between 50-300% increases noted in the nursery (see image above of tropical tree legume).

Drought Tolerance

A prime concern for jatropha growers is tolerance of water stress. There is now much scientific evidence to support the fact that mycorrhizal fungi adapted to water stress conditions can provide a reliable natural mechanism for plants to enhance drought tolerance. Indeed the benefits to the plant of its friendly fungal partner increases as the water stress gets worse increasing water uptake and nutrient uptake leading to better flowering compared with plants with no fungi. Plants shown to benefit include tomatoes, roses, corn, ornamental flowers and trees.

Ultra Green RootProm's mycorrhiza formulation also increases the rate at which water is moved from roots to shoots in plants - an indirect mechanism for better water uptake. Low water levels in the soil means that no nutrients will move towards the plant roots if fungi are absent. It is worth bearing in mind that there are up to 14m of such fungal strands in a sugar cube sized volume of soil.

Ultra Green RootProm Benefits

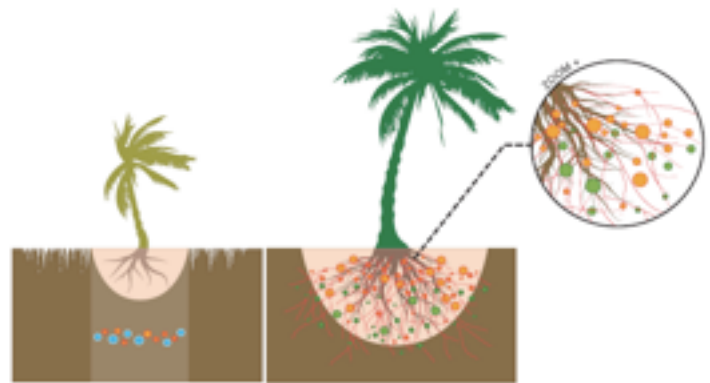
- Feeds plants for its entire life
- Gives plants access to more nutrients
- Actively helps the plant find more water
- Acts as a natural plant nutrition system
- Increases the growth and survival of newly planted or transplanted plants
- Increases the volume of soil exploited by the plant
- Reduces the requirement for high inputs of fertilisers
- Increase the tolerance to drought conditions
- Ideal for both arid and tropical conditions
- Increases the tolerance to adverse environmental conditions such as polluted or poor soils
- Improves flowering and seed yields
- Helps a plant tolerate disease for longer
- Binds soil particles together and supports erosion control
- Increases plant diversity in natural ecosystems
- A natural, environmentally-friendly group of fungi

Ultra Green RootProm Application Requirements

The product comes in a granular formulation and is added in the planting hole immediately below the seed or plant cutting at the following rates:

Oil Palm/Millettia pinnata 15 – 20ml per plant in nursery

Jatropha 5ml per plant in nursery



The images above show the technique of adding Ultra Green RootProm's unique mycorrhiza fungi formulation into nursery pots below the seed or cutting to maximise the effect of treatment and benefits to the plant. The young roots emerging from seed or cutting will attract the fungi into the roots where a mutually beneficial relationship will develop within 3-4 weeks. The fungi can increase the volume of soil explored by the plant over 500 times. The fungi will pass nutrients and water to the plant in return for some carbon from the host plant. The effects of the fungus will be seen within 1-3 months depending on the growth speed of the plant. The benefits supplied to the plant are not just a copy of adding chemical fertilizers but are unique to this special group of fungi.

Contact Details

For prices and shipping details please contact -

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About the Product Developer

Dr. John Dodd

Science & Innovation Director

Dr. John Dodd is an international specialist in biotechnology working for twenty years in sustainable plant production technologies, training scientists and implementing projects from financial control to field application. In 2000 he co-founded Plantworks Ltd, a company producing microbial fungal inoculants for the landscape, forestry and horticulture markets in the UK and abroad. Before joining UGG Ltd as Science and Innovation Director, John worked to achieve commercialisation for fledgling knowledge-based businesses as Enterprise Hub Director at Sittingbourne Enterprise Hub Ltd. Between 1988-2004, John was awarded several Senior Research Fellowships, including Head of Mycorrhizal Technology, from the University of Kent at Canterbury, where he also gained his Ph.D in Soil Microbiology. He has been a Postdoctoral Fellow at Rothamsted Experimental Station Colombia and has generated funds throughout his career in excess of £1m to establish a world-renowned team and research centre on mycorrhizal fungi. John is the co-author of 75 scientific publications in international journals and maintains his supervisory role as Executive Secretary at The International Institute of Biotechnology.

References

1. Dr J C Dodd – personal Data
2. E. Sieverding, *Vesicular-Arbuscular Mycorrhizal Management in Tropical Agrosystems*, GTZ Publishers, Germany, 1991, p 371.