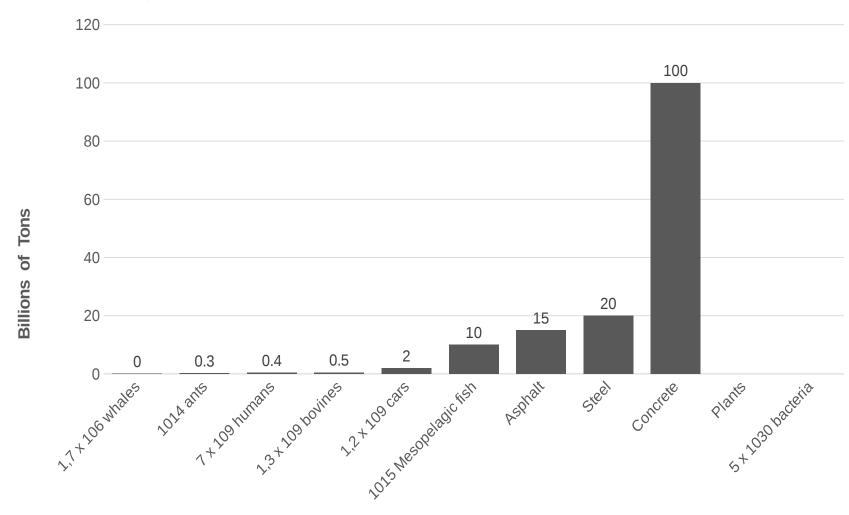


WHERE SCIENCE SERVES NATURE

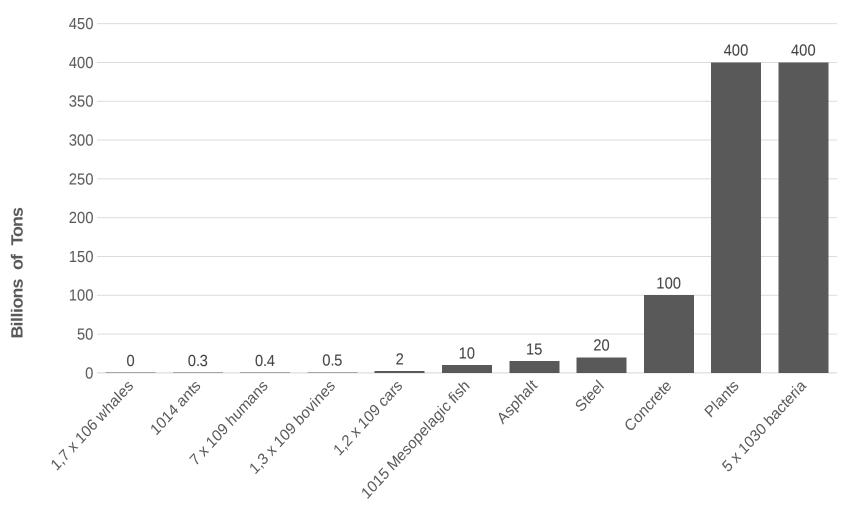
THENEW VALAGROLINE OF MICROBIAL-BASED SOLUTIONS **OVERVIEW**

Approximate quantity of target oriented, live, evolution derived vs artificial matter





Approximate quantity of target oriented, live, evolution derived vs artificial matter



bacteria

Max Tegmark – "Life 3.0"





The new portfolio: umbrella and brand names

BIOSTIMULANTS





BIOFERTILIZERS





BIOCONTROL

FLOR #4E

TRIGOMAN





We finally have a line

HYOROPIS TRICOZEN 1Kg FLOREZEN **■Valagro**

We finally have a line















We have targets

We know where we want





Biofertilizers (WW)

Source: Global Markets Insights

Value: 2 bUSD

Source: Market Data Forecasts







Biofertilizers (India)

Source: Global Markets Insights

Value: 3.2 bink Source: Market Data Forecast



Source: Global Markets Insights



There is an ocean outside we have to explore



Source: Global Markets Insights





• The **GEAPOWER** approach will make the difference





field sampling









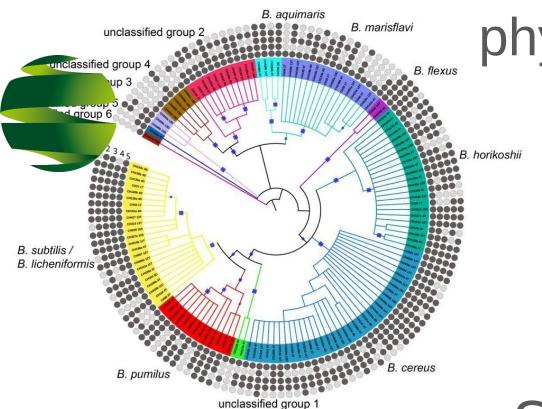
DNA extraction





GAT AAAT CT GGTCTT ATTTCC DNA sequencing





phylogenetic analysis

SAFE DEPOSIT



NATIONAL CENTRE FOR CELL SCIENCE

Department of Biotechnology (DBT), Government of India Member of WFCC| An IDA under the Budapest Treaty | DNR of MoEF



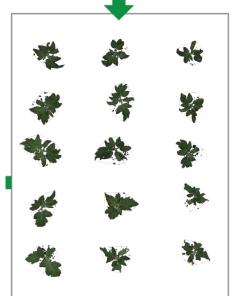


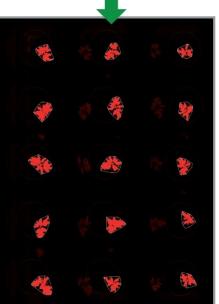


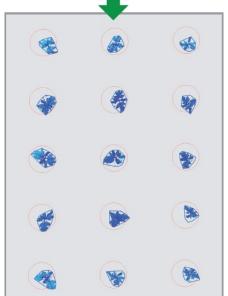


















The new portfolio: umbrella and brand names

BIOSTIMULANTS





BIOFERTILIZERS





BIOCONTROL

FLOR #4EX

TRIGO FAR





The new portfolio: umbrella and brand names

BIOSTIMULANTS





Stimulation











HEIKO seed







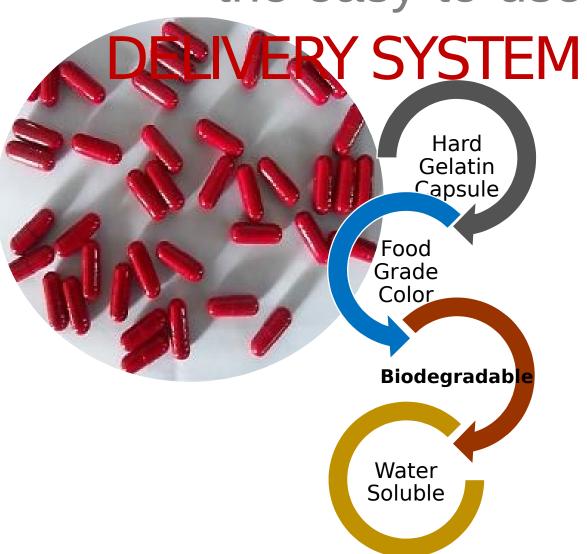




quick description HEIKO root is a **NOVEL MICROBIAL DELIVERY SYSTEM** produced through multi-stage fermentation, made from CONSORTIA OF **MICROORGANISMS**



the easy-to-use









what it does it

INCREASES ROOT GROWTH and PROVIDES STRONGER AND FASTER VEGETATIVE

Nursery & Plantlets: one capsule near to the seed or the root zone; Vegetables: 2-3 capsules/plant; Big

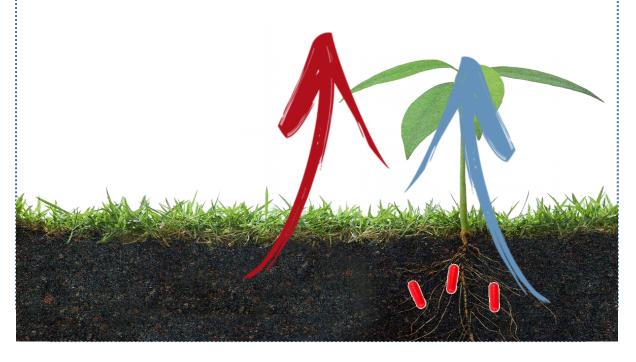
plants: 10 caps per tree at the base.

For spray: dissolve in required quantity of water























quick description

HEIKO seed is PROMOTER OF GERMINATION





what it does

HEIKO seed provides FAST AND ROBUST GROWTH

Soil application (soil and overhead fertigation, drench): dissolve 300g of HEIKO Seed in 150-200 liters of water and apply uniformly on one acre crop.



HEIKO seed









The new portfolio: umbrella and brand names

SO ubiliz ation









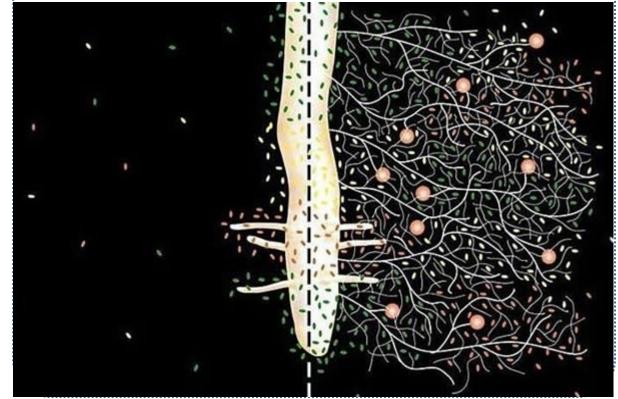




HYOROPUS HYOROPUS

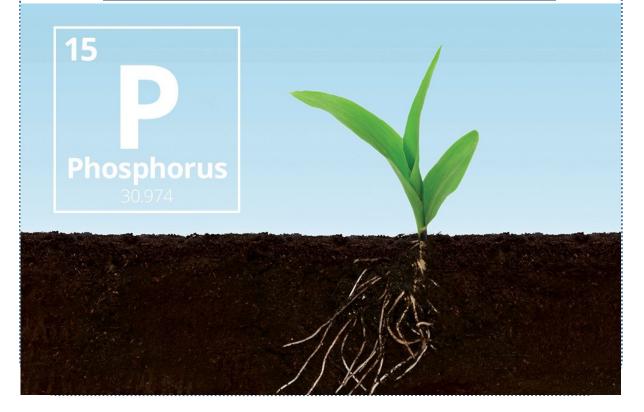


HYOROMY









quick description high-performance phosphorous solubilisers, an effective component of a SUSTAINABLE APPROACH TO P-**NUTRITION**



HYOROPUS HYOROPUS





LIQUID HYOROPUS

HYORO Plus G Apply 4-8kg/acre. It is suitable to all crops (arable & industrial crops, fruits & vegetables, nuts & plantation crops, ornamentals).

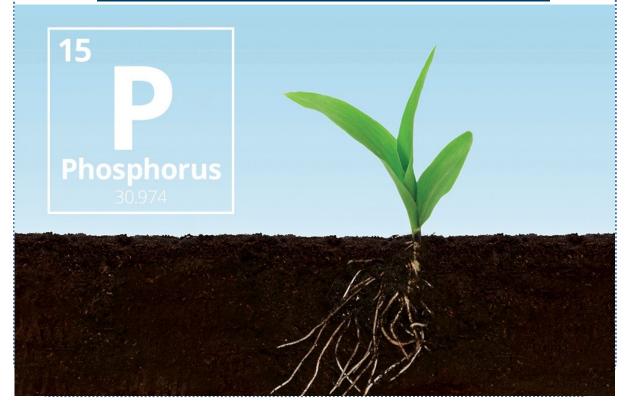
The content of the pack is sufficient to be broadcasted on soils before seed sowing, after seed sowing, during transplantation of any crop, irrespective of soil types.

Ensure moisture in the soil at the time of application.

HYORO Plus L, 250-500 ml / acre by fertigation. HYORO PLUS L is suitable to all crops (arable & industrial crops, fruits & vegetables, nuts & plantation crops, ornamentals) in the most diverse environmental conditions.



HYOROPUS HYOROPUS



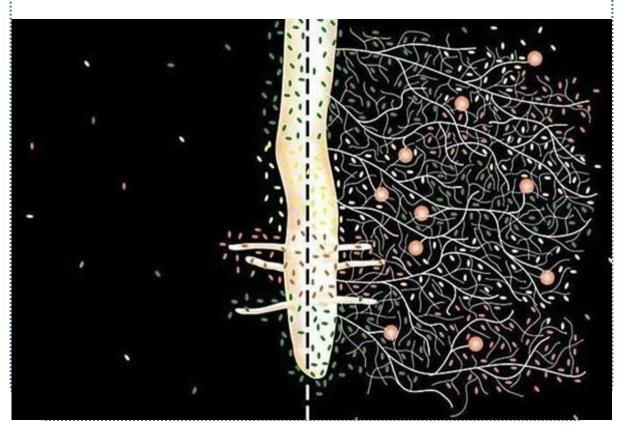
They are the **UNIQUE OUTCOME** of a RESEARCH PROCESS to provide the excellence as far as Phosphorous solubilisation is concerned.









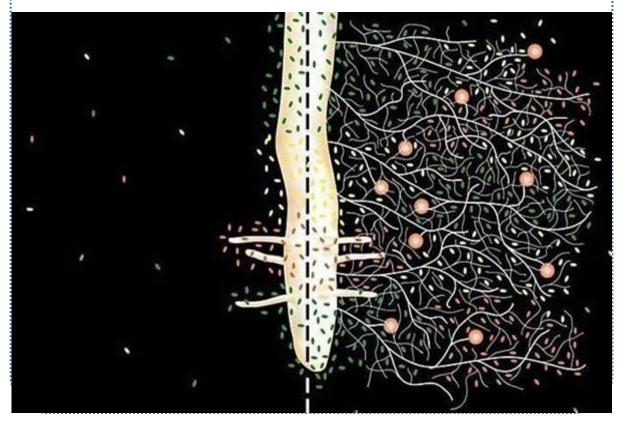


quick description

HYORO MY+ is the Valagro solution for the SUPPLEMENT OF **MYCORRHIZAE TO** SOILS







what it does

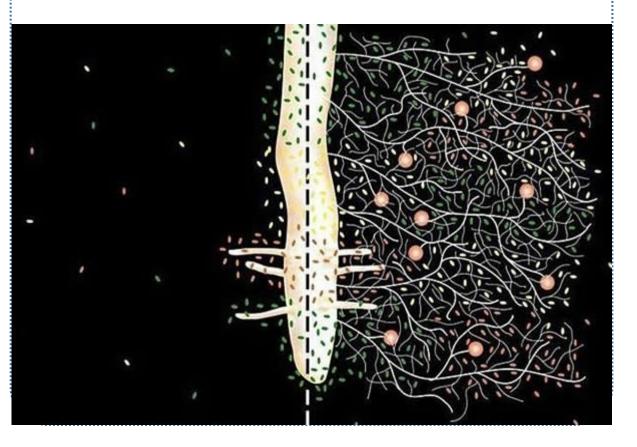
HYORO MY⁺ forms kilometres of filaments

as an EXTENDED ROOT SYSTEM to

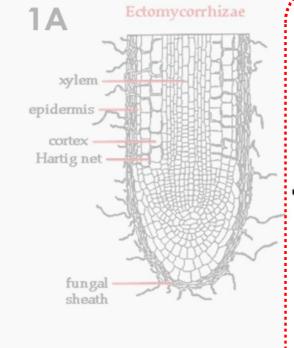
- enhance water and nutrient uptake
- optimize imigation efficiency
- increase drought and other abiotic stress tolerance

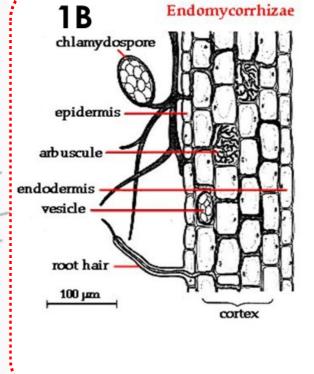
4-8 kg/acre. Mix 4kg of HYORO MY⁺ with any moist soil/FYM and broadcast on 1 acre (row crops) or apply at the base of individual plant (horticulture crops).





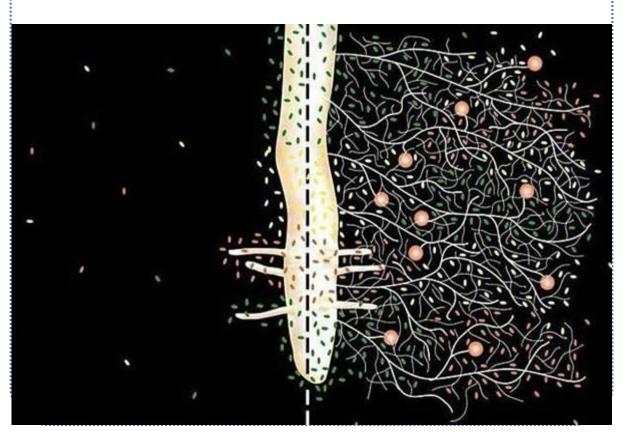
Concept 1: HYORO MY+ consists of ENDOMYCORRHIZAE







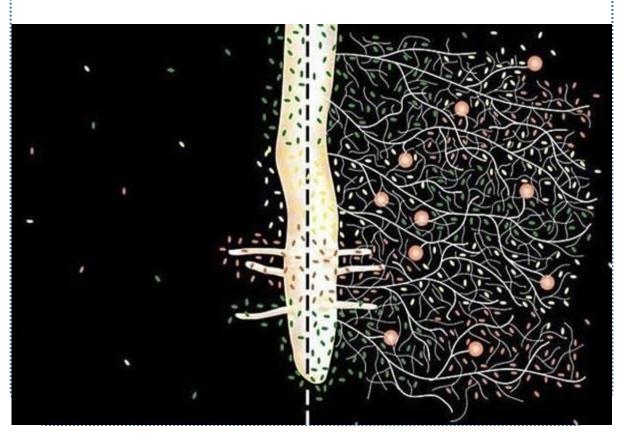




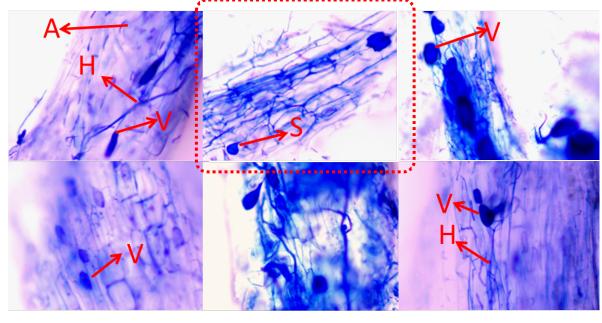
Concept 2: HYORO MY⁺ is a complete formulation to make the solution MORE EFFECTIVE





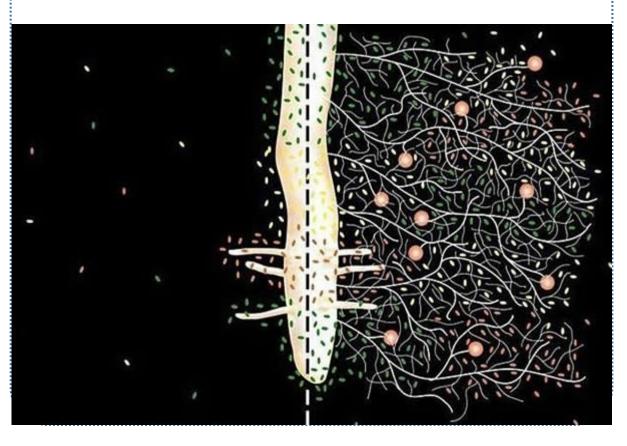


Concept 3: we do guarantee the n. of **VIABLE SPORES/g**

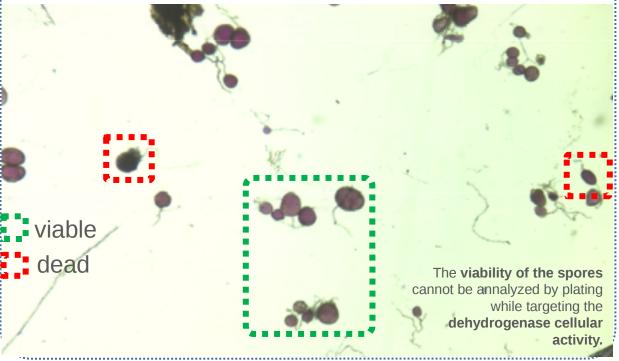


H-Hyphae, A-Arbuscules, V-Vesicles, S-Spores



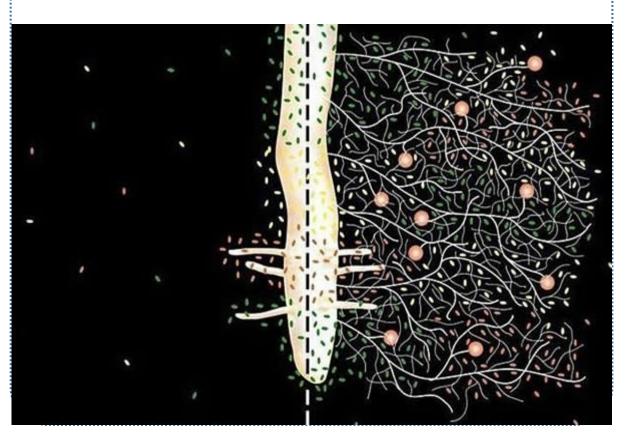


Concept 3: we do guarantee the n. of VIABLE SPORES/g

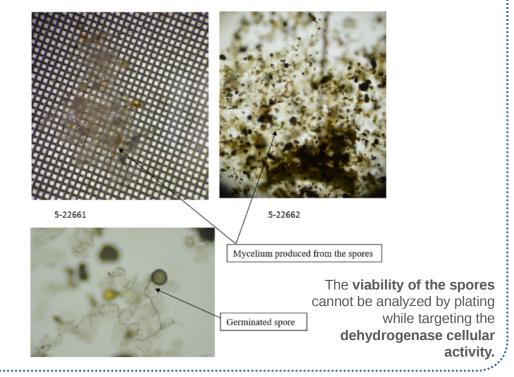




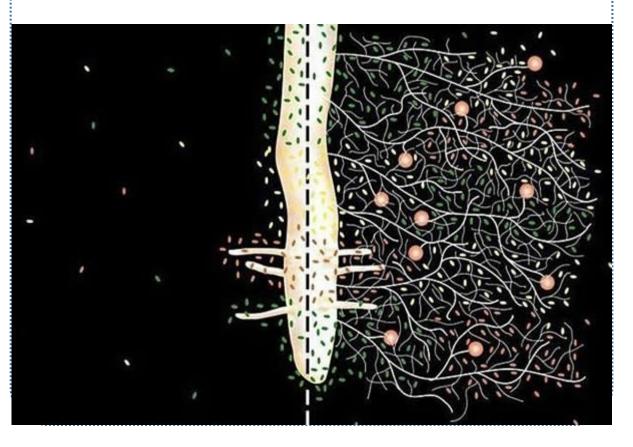




Concept 3: we do guarantee the n. of VIABLE SPORES/g







Concept 4: everything is followed by FIELD ASSESSMENTS





BIOCONTROL

F-027

TROOT43

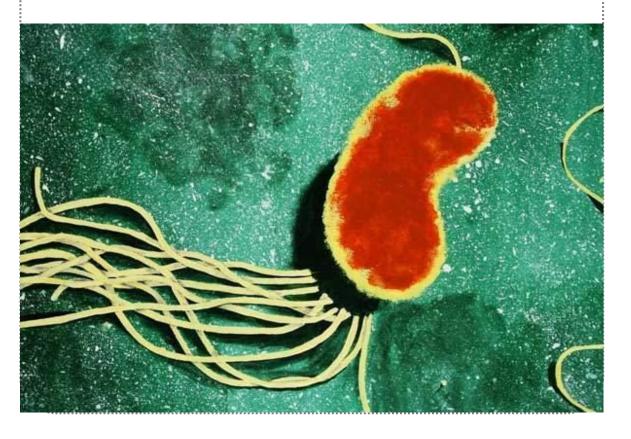






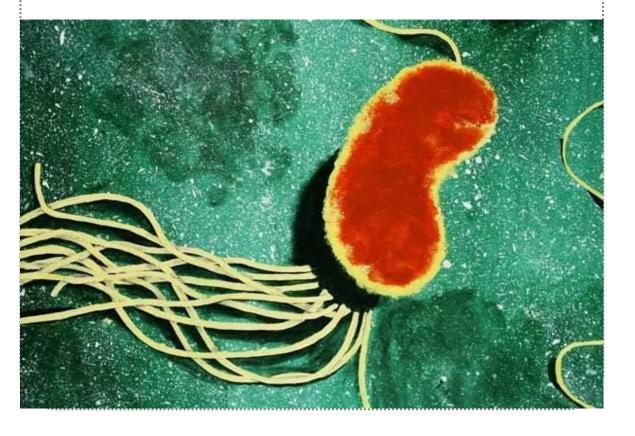


14(•)?(₹44)



Pseudomonas fluorescens 1% (WP)

14(0):\ \$\\$4\\



Targets PESTS &DISEASES Target plant Target plant pathogen/pest

Crop

disease

Root knot Carrot

nematode

Bacterial

soft rot

Okra Root knot

nematode

Brinjal

(Eggplant)

Vascular wilt

Tomato and Root knot nematode

Bacterial wilt

Meloidogyne incognita Erwinia carotovora

Meloidogyne incognita Fusarium oxysporum f.sp.

vasinfectum

Meloidogyne incognita

Ralstonia solanacearum



14(0):3 = 4 = 7



APPLICATIONmet hod

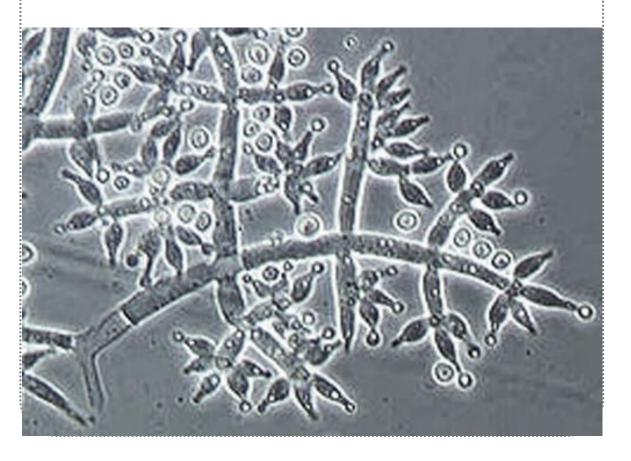
- Seed application: 20gm/kg seed
- Nursery treatment: 50gm/sq.mt
- Soil application: 5 MT/ha of enriched FYM*

*Enriched FYM (Farm Yard Manure): add 1 kg of Florezen to 1 MT of FYM or compost to enrich it. FYM added with this biopesticide should be left under shade for a period of 15 days, maintaining optimum moisture and in between it should be mixed thoroughly at an interval of days for proper enrichment of FYM with this bioagent.

Equipment used in application: seed treatment drums and foliar sprayers like knapsack sprayer, compressor knapsack sprayer, compressor knapsack battery sprayer, ASPEE-HTP power sprayer.

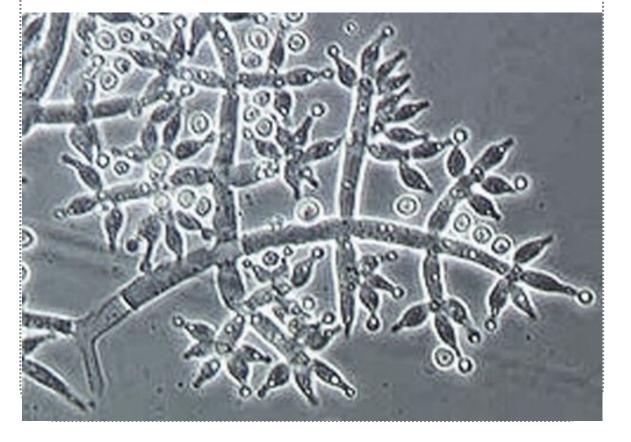
Re-entry: immediately after sowing of treated seeds and seed bed and main field treatment. **■ Valagro**•

173(90)437



Trichoderma harzianum 1% (WP)

TROOTEN



Trichoderma harzianum 1.0% WP(Strain No. IIHR-TH-2 Accessions No. ITCC6888)

Tomato	Root-knot nematode Wilt causing fungi (Fusarium)	Treat the seed with trichoderma Harzianum 1% WP @ 20 gm/kg of seeds & treat the nursery beds with the trichoderma harzianum 1% WP @ 50gm/sq.m and apply Trichodrma Harzianum 1% WP @ 5kg/ha enriched FYM*@5tons /hectare to the soil before transplanting.
Brinjal	Root-knot nematode Wilt causing fungi (Fusarium)	Treat the seed with trichoderma Harzianum 1% WP @ 20 gm/kg of seeds & treat the nursery beds with the trichoderma Harzianum1% WP @ 50gm/sy.m and apply Trichodrma Harzianum 1% WP @ 5kg/ha enriched FYM*@5tons /hectare to the soil before transplanting.
Carrot	Root-knot nematode Root rot (Sclerotium rolfsi)	Treat the seed with trichoderma Harzianum 1% WP @ 20gm/kg of seeds and apply trichoderma Harzianum 1% WP @ 5kg/ha enriched FYM*@ 5tons/hectare to the soil before sowing.
Okra	Root-knot nematode Wilt causing fungi (Fusarium)	Treat the seed with trichoderma Harzianum 1% WP @ 20gm/kg of seeds and apply trichoderma Harzianum 1% WP @ 5kg/ha enriched FYM*@ 5tons/hectare to the soil before sowing.





WIN THEGLOBAL CHALLENGE Valagro® Where science serves nature









