

TRICHOTECH® WP

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Product Information

1. 1.A Registered Product for the Control of Soil Pathogenic Fungi (*Fusarium spp*)

Product	TRICHOTECH® WP
Active Agent	Trichoderma asperellum
Agent Type	Antagonistic Fungi
Product Use	<i>Fusarium spp</i>
Mode of Action	Grows and establishes around the root zone and controls soil borne pathogens through competition, antibiosis, mycoparasitism and growth promotion mechanisms.
Product Company	Dudutech
Experimental Site	Ethio-Magical Farm on Carnation (Dianthus caryophyllus L.)
Experiment Done by	Holeta Agricultural Research Center
Registered Date	July, 2021

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Ethiopian Institute of Agricultural Research

Ref. No. 9.7/0318/2021
Date: July 23, 2021



0318

MINISTRY OF AGRICULTURE
Plant Health & Product Quality Control Directorate
Addis Ababa

Subject: Submission of report for the verification of Antagonistic fungi, TRICHOTECH® WP (*Trichoderma asperellum*)
This is an official notification of the results of the candidate bio-control agent:
Trade Name: TRICHOTECH® WP
Scientific Name: *Trichoderma asperellum*
Formulation (conc. and type): 4.0 x 10⁹ *Trichoderma asperellum* spores per gram in inert carrier

In which it is requested to develop a Local Efficacy Data through verification of the test product as per the agreement MOU No. 089/2019.

In accordance with the results of greenhouse experiment extending for one season in 2020, TRICHOTECH® WP effectively controlled *Fusarium spp* on Carnation, *Dianthus caryophyllus* L. in the trial. Therefore it is recommended for the same purpose.

Attached herewith please find the results of the verification of TRICHOTECH® WP.

With regards,

[Signature]

Diriba Geleli (PhD)
Deputy Director General



CC:
• Ethiopian Horticulture Producer Exporters Association
• Dudutech
• Ethio-Magical Farm PLC

2. BIOLOGY

TRICHOTECH® WP contains spores of *Trichoderma asperellum* a soil dwelling fungus that is beneficial to plants. The fungus is antagonistic to soil pathogenic fungi; and has been used globally for control of soil borne fungal diseases caused by *Fusarium spp.*, *Pythium spp.* and *Rhizoctonia spp.* In addition, the strain is known to increase plant vigour.

3. MODE OF ACTION

TRICHOTECH® WP mechanisms:

Competition – TRICHOTECH® WP is a fast-growing fungus that easily out-competes soil pathogens, promoting niche exclusion of potential harmful microbes, and providing a barrier to combat disease causing fungi.

Antibiosis – TRICHOTECH® WP produces chemical metabolites, which inhibit various developmental stages of plant disease causing fungi.

Mycoparasitism – TRICHOTECH® WP produces enzymes that enable the fungus to invade and parasitize plant pathogenic fungi. Growth promotion – TRICHOTECH® WP increases plant growth vigour by releasing locked nutrients from decaying organic matter; supplying nutrients to plant roots.

4. Application Method

Owing to its mode of action, TRICHOTECH® WP should be applied preventively – before diseases occur in the plants.

The application recommendations vary depending on target crop and method of application:

Drip application – Apply 125g of TRICHOTECH® WP per hectare. Add 125g of TRICHOTECH® WP into 5 liters of water and mix thoroughly. Add the suspension into a large fertigation tank and make up the volume to 1,500L. Apply the suspension through the fertigation drip system. Agitate the mixture throughout the application period to ensure uniform distribution of the TRICHOTECH® WP in the water.

Drench application – Prepare a suspension of TRICHOTECH® WP at the rate of 125g/Ha in 5 liters of water and mix thoroughly. Add the mixture into a large drenching container and make up the volume of water to adequately cover the target area. Pour into a watering can or sprayer/applicator and apply evenly onto the target area. Irrigate the area treated with TRICHOTECH® WP after application.

Dip application – This is recommended as a pre-transplant application for rooted plantlets or cuttings. Prepare a paste of 125g/Ha TRICHOTECH® WP in 20L of water. Place rooted transplants/cuttings in a perforated crate and dip roots into the paste. Plant seedling as soon as they are dipped.

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5. RATE OF APPLICATION

RATE SCHEDULE	Dosage g/Ha	Interval (days)	Frequency
Preventative/Maintenance	125	30	as needed
Light Curative	125	14	x4
Then revert to maintenance.			
Medium Curative	125	14	x2
Heavy Curative	Drench with another product with knock-down effect then revert to Maintenance		

6. STORAGE

Store TRICHOTECH® WP in a cool dry place, away from direct sunlight. TRICHOTECH® WP may be stored for up to 6 months in original unopened container maintained at 8 - 12°C.

7. IPM

Before the introduction of the pesticide, it is important that the plant is clean of negative chemical residues.



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