

TAE GRO[®]

A microorganism based fungicide formulated as a wettable powder containing 130 g/kg *Bacillus amyloliquifaciens* strain FZB24 (13% w/w, minimum of 1x10¹³ cfu/kg).



Suppresses diseases on cucurbits, solanaceae, lettuce and strawberry in protected situations and in grapevine in unprotected situations.

Product registration number: MAPP 19204

Bacteria based biofungicide for suppression of a range of diseases.
Based on a unique strain of a naturally occurring non genetically modified bacterium.

Multiple modes of action:

- Colonisation and competition on the plant surface against pathogens,
- Release of antimicrobial metabolites,
- Induced systemic resistance.

Activity on a range of diseases including from the label:

- Early blight,
- Botrytis,
- Powdery mildew,
- Downy mildew,
- (with activity against other fungal and bacterial disease reported from overseas trials).

Use to suppress disease, to reduce the risk of resistance developing, to eliminate or reduce chemical fungicide residues, to form part of an IPM programme.

Long shelf life.

Short harvest interval.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

Use plant protection products safely. Always read the label and product information before use.

VERSION CONTROL

Version	Publication Date	Main changes from previous version
06/20	June 2020	New product.
01/23	January 2023	Revised format of manual

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The following text is taken from the approved Product Label:

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Suppresses diseases on cucurbits, solanaceae, lettuce and strawberry in protected situations and in grapevine in unprotected situations.

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DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

TAE GRO is a microorganism based fungicide containing the bacterium *Bacillus amyloliquefaciens* strain FZB24 (13% w/w, minimum of 1x10¹³ cfu/kg), naturally occurring in the environment and not genetically modified.

Bacillus amyloliquefaciens strain FZB24 can combine several modes of action: competition, antibiosis and induction of plant resistance.

To obtain the most effective use of TAE GRO, it should be applied prior to, or in the early stages of disease development. It is good management, and therefore recommended, to use TAE GRO as a component of IPM. Levels of suppression can be variable and additional control measures may be required.

Avoid TAE GRO suspension in chlorinated water sources (at a concentration of 5 ppm or more).

Apply TAE GRO late in the day to reduce spore exposure to UV radiation.

Consult processors before using on crops grown for processing. The effects on fermentation processes in wine production have not been fully tested.

A fungicide treatment should only be applied at least 7 days after a treatment with TAE GRO.

RESTRICTIONS

TAE GRO has optimum performance when the temperature is between 15 and 30°C. Outside this temperature range, activity may be reduced but spores remain viable, unless temperatures rise above 40°C when spore viability may decline rapidly.

DISEASES CONTROLLED

TAEGRO suppresses diseases on cucurbits, solanaceae, lettuce, strawberry and grapevine crops in protected and unprotected situations.

Cucurbits (cucumber, courgette, melon, watermelon and summer squash) in protected conditions:	Powdery mildew
Lettuce in protected conditions:	Downy mildew
Solanaceae in protected conditions (tomato, aubergine, pepper, and chilli):	Powdery mildew, Early blight
Strawberry in protected conditions:	Grey mould
Table and wine grapes (outdoor):	Grey mould, Powdery mildew

RESISTANCE

There are no reports of resistance to TAEGRO, however it is good practice to use such products as components of Integrated Crop Management systems, alternating with other control measures. This is particularly important for sequential crops.

CROP SPECIFIC INFORMATION

CUCURBITACEAE

Powdery mildew

Timing: BBCH 11-89

Rate of use: 0.37 kg product per hectare. 3 to 12 applications should be performed per crop season with a minimum of 3 days interval between applications.

LETTUCE

Downy mildew

Timing: BBCH 12-49

Rate of use: 0.37 kg product per hectare. 3 to 12 applications should be performed per crop season with a minimum of 3 days interval between applications.

SOLANACEAE

Powdery mildew

Timing: BBCH 20-89

Rate of use: 0.37 kg product per hectare. 3 to 12 applications should be performed per crop season with a minimum of 3 days interval between applications.

Early blight

Timing: BBCH 13-89

Rate of use: 0.37 kg product per hectare. 3 to 12 applications should be performed per crop season with a minimum of 3 days interval between applications.

STRAWBERRY

Grey mould

Timing: BBCH 61-89

Rate of use: 0.37 kg product per hectare. 3 to 12 applications should be performed per crop season with a minimum of 3 days interval between applications.

GRAPEVINE

Grey mould

Timing: BBCH 61-91

Rate of use: 0.37 kg product per hectare. 3 to 10 applications should be performed per crop season with a minimum of 7 days interval between applications.

Powdery mildew

Timing: BBCH 00-89

Rate of use: 0.37 kg product per hectare. 3 to 10 applications should be performed per crop season with a minimum of 7 days interval between applications.

MIXING AND SPRAYING

TAEGR0 must be pre-mixed thoroughly with water to assure a properly distributed suspension. If the pH of the water is less than 5 or greater than 8, adjust to a pH within the range 5-8 before mixing with TAEGR0.

It is recommended to pre-mix the required amount of TAEGR0 in a container with 2-5 L of water. Add half of the water required to the tank and begin agitation. Then slowly empty the TAEGR0 pre-mix into the tank. When the suspension is thoroughly mixed, add the remaining water. Keep the mixture in constant agitation in the spray tank prior to application. Apply content of entire suspension within a few hours of mixing, and do not leave in direct sunlight during mixing and prior to application to ensure viability of TAEGR0. TAEGR0 can be applied using conventional spray machinery. No special machinery is required.

Volume of water

Use in water volumes of 180-1000 L/ha.

COMPATIBILITY

TAEGR0 has been tested on a wide range of crops and conditions without causing crop damage. When used as recommended no unacceptable crop effects are expected.

IMPORTANT INFORMATION				
FOR USE ONLY AS A FUNGICIDE BY PROFESSIONAL USERS				
Crop	Maximum individual dose: (kg product/ha)	Maximum total dose	Maximum number of treatments:	Latest time of application:
Cucurbits in permanent protection with full enclosure (cucumber, courgette, melon, watermelon and summer squash)	0.370	-	12 per crop	1 day before harvest
Lettuce in permanent protection with full enclosure	0.370	-	12 per crop	1 day before harvest
Solanaceae in permanent protection with full enclosure (tomato, aubergine, pepper and chilli)	0.370	-	12 per crop	1 day before harvest
Strawberry in permanent protection with full enclosure	0.370	-	12 per crop	1 day before harvest
Table and wine grapes (outdoor)	0.370	-	10 per year	1 day before harvest
READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.				

TAEGRO A wettable powder containing *Bacillus amyloliquefaciens* strain FZB24 (13% w/w, minimum of 1×10^{13} cfu/kg).

Keep out of reach of children.
Do not breathe dust.
Wear protective gloves/protective clothing.
Wear respiratory protection.

To avoid risks to human health and the environment, comply with the instructions for use.

Contains *Bacillus amyloliquefaciens* strain FZB24. Microorganisms may have the potential to provoke sensitising reactions.

MAPP No. 19204

SAFETY PRECAUTIONS

(a) Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

OPERATORS MUST WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND SUITABLE RESPIRATORY PROTECTIVE EQUIPMENT* when handling the concentrate or applying the product.

*Disposable filtering facepiece respirator to at least EN149 FFP3 or equivalent.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

AVOID CONTACT WITH SKIN AND EYES.

IF YOU FEEL UNWELL, seek medical advice immediately (show the label where possible).

WASH HANDS AND EXPOSED SKIN before meals and after work.

(b) Environmental protection

Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

(c) Storage and disposal

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

Keep in a cool, dry, well-ventilated place.

Protect from direct sunlight.

Do not store above 30°C. Do not freeze.

Ideally, store at room temperature (around 23°C).

TAEGRO has a shelf-life of 36 months at room temperature.

Once open, use entire contents.

WASH OUT CONTAINER THOROUGHLY and dispose of container safely.

CLEAN ALL EQUIPMENT after use.

While every care is taken, Novozymes France SAS will accept no liability for lack of product effectiveness if the label instructions are not followed.

APPROVAL HOLDER:

Novozymes France SAS,
Parc Techno. des Grillons, 60, route de
Sartrouville, Bâtiment 6, 78230 LE PECQ
France.
Tel: +33 1 30 152840

MARKETING COMPANY:

Syngenta UK Ltd.,
CPC 4, Capital Park, Fulbourn,
Cambridge.
CB21 5XE
Tel: +44 (0) 1223 883400

Pack size 375g, outers of 10.

Distributed in the UK by Fargro Ltd.

In case of toxic or transport emergency with TAEGRO, ring +44 (0) 1484 538444 any time.

Safety data sheet available on request.

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