Biotak fungicide
technology sheet

An innovative broad-spectrum biological fungicide that protects plants from common fungal diseases in nurseries and greenhouses.

- The most concentrated biological fungicide on the market due to its pure spore formulation—setting the standard for quality, purity and performance reliability
- Targets a broad spectrum of diseases
- Suppresses foliar diseases
- Protects the root system early in the production cycle
- Promotes healthier soil/growing media by preventing disease
- Can be tank mixed or used in rotation with conventional chemistries
- Favorable toxicological and environmental profile makes it a flexible option for disease control
- With no recordable residue, Biotak® fungicide allows for greater flexibility by extending the window of application, especially near harvest time

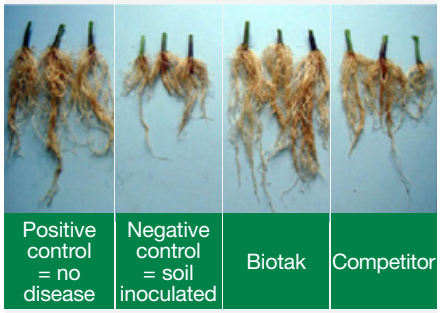
Active ingredient
Bacillus amyloliquefaciens strain MBI 600 – Group 44

Formulation
Wettable powder

One pack contains
4 x 2 kg jugs

Storage
Store product away from food or feed. Store in a dry area for up to 36 months from date of manufacture. Protect from freezing.

Fusarium in pepper roots



Source: BASF internal trial

Crop and diseases suppressed	Timing
Planting media incorporation:	
In greenhouse fruiting vegetables, cucurbits and ornamentals.	
Damping-off and root diseases caused by *Fusarium* spp., *Rhizoctonia solani* and *Pythium* spp.	Apply to plant growing media such as potting soil, peat moss or peat-based mixtures prior to planting
Foliar application:	
In cucumber. Downy mildew (*Pseudoperonospora cubensis*)[1]	7 to 10 day application interval
In cucurbit vegetables. Powdery mildew (*Sphaerotheca fuliginea* [syn. *Podosphaera xanthii*])[1]	7 to 10 day application interval
In lettuce. Botrytis grey mold (*Botrytis cinerea*) White mould (*Sclerotinia sclerotiorum*)[1]	7 to 10 day application interval
In low-growing berries. Botrytis grey mold (*Botrytis cinerea*)	7 to 10 day application interval
In peppers. Botrytis grey mold (*Botrytis cinerea*) Powdery mildew (*Leveillula taurica*)	7 to 10 day application interval
In tomatoes. Botrytis grey mold (*Botrytis cinerea*) Early blight (*Alternaria solani*)	7 to 10 day application interval

Biotak fungicide must be used preventatively.
Maximum application rates and shorter spray intervals are recommended when conditions favour high disease pressure.

[1] Partial suppression.

BASF
We create chemistry

Biotak®
Fungicide

Application rate

One jug of Biotak fungicide will treat 2 to 8 ha (5 to 20 acres).

Greenhouse fruiting vegetables, cucurbits, ornamentals	50 g / 21.9 m^3 of plant growing media
Lettuce, tomatoes	0.25 to 1.0 kg/ha (0.1 to 0.4 kg/ac)
Cucumber, cucurbit vegetables, low-growing berries, peppers	0.25 to 0.5 kg/ha (0.1 to 0.2 kg/ac)

For greenhouse use, refer to label for recommended application volume.

Mixing order

1. Ensure the spray tank is clean before use.
2. Fill the spray tank 3/4 full of water and start agitation.
   a. The pH of the spray solution should be between 4 and 9.
3. Before adding Biotak to the spray tank, create a pre-slurry by mixing the required amount of Biotak with water in a bucket.
4. With the spray tank agitation system running, add the Biotak pre-slurry to spray tank.
5. Add the required amount of tank-mix partner, if applicable.
6. Add the recommended amount of adjuvant, if applicable.
7. Continue agitation while filling the remainder of the spray tank, throughout mixing and application.
8. The spray mixture should be applied shortly after mixing. DO NOT allow the spray mixture to sit overnight.
9. After use, clean the spray tank according to label precautions.

Application tips

Restricted entry interval – 4 hours or until sprays have dried.

Resistance management – Biotak is an excellent resistance management tool to include in an IPM program. It can be used in combination or rotation with other chemistries to prevent the development of resistant strains.

Pre-harvest interval

0 days for all labeled crops.

Tank mixes and additives

BASF supported tank-mix partners include:

- Abamectin
- Acetamiprid
- Azoxystrobin
- Boscalid
- Captan
- Chlorantraniliprole
- Copper hydroxide
- Copper oxychloride
- Copper sulfate
- Cyflumetofen
- Cyprodinil
- Difenoconazole
- Dinutefuron
- Fenhexamid
- Fludioxonil
- Fluopyram
- Fluxapyroxad
- Imidacloprid
- Metrafenone
- Non-ionic surfactant
- Organosilicone surfactant
- Paraffinic oil
- Prohexadione-calcium
- Pyraclostrobin
- Pyrimethanil
- Spinosad
- Spirotetramat
- Streptomycin
- Sulfur
- Trifloxystrobin

For information concerning additives and supported tank mixes, contact your local BASF Turf and Greenhouse Representative.

Chlorothalonil, mancozeb and metalaxyl are not compatible with Biotak. Allow 7-10 days between any of these chemistries and any Biotak application.

For more information: Contact your local BASF Turf and Greenhouse Representative or visit **betterplants.ca**

Always read and follow label directions.