

TRIATHLON® BA

Aqueous suspension biofungicide/bactericide



An American Vanguard Company

FOR INDOOR/OUTDOOR USE ON ORNAMENTAL FLOWERING PLANTS, VEGETABLES, HERBS, FRUIT TREES, SHRUBS AND FOLIAGE GROWN IN NURSERIES, GREENHOUSES, AND SHADEHOUSES, AND ON TURFGRASS.

Product Information Bulletin 902

GENERAL INFORMATION

Triathlon® BA is a broad-spectrum preventative biofungicide/bactericide for control or suppression of fungal and bacterial plant diseases. The active ingredient of **Triathlon BA** is a naturally-occurring strain of a beneficial bacterium. **Triathlon BA** is OMRI listed and approved for use in organic production.

Common Name: *Bacillus amyloliquifaciens* strain D747*

* Contains a minimum of 1 x 10¹⁰ colony-forming units (cfu) per milliliter

Class: Bacillus sp. and the fungicidal lipopeptides produced

GROUP	BM 02	FUNGICIDE
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Packaging: **Triathlon BA** is packaged in 1 gallon containers, 4 per case.

RESTRICTED ENTRY INTERVAL (REI) AND SIGNAL WORD

REI = 4 hours Signal Word = CAUTION

PERSONAL PROTECTION EQUIPMENT (PPE)

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Dust/mist filtering respirator meeting NIOSH standards

USE SITES

Triathlon BA may be used both indoors and outdoors on ornamental flowering plants, vegetables, herbs, trees, shrubs, and foliage grown in nurseries, greenhouses, shadehouses and on turfgrass.



CAN BE USED IN ORGANIC PRODUCTION

BENEFITS OF TRIATHLON BA

- Effective on fungal and bacterial diseases
- Spray or drench applications
- Part of a traditional or organic program
- Labeled for use on fruits, vegetables, and herbs

APPLICATION METHODS

Triathlon BA works as a contact foliar spray or drench to prevent diseases caused by fungi and bacteria on foliage and roots. Weekly foliar sprays may be necessary to protect new growth on ornamentals, trees, and shrubs.

DISEASES CONTROLLED

Alternaria	Phytophthora
Anthracnose	Powdery mildew
Bacterial leaf spot	Pythium
Botrytis	Rhizoctonia
Downy mildew	Rust
Fusarium	Scab
Leaf spots	

TANK MIXING

Triathlon BA may be applied alone or in combination and/or rotation with other fungicides and bactericides as a tool for integrated disease management in ornamental and nursery plants and on turfgrass.

To mix **Triathlon BA**, fill spray tank to ½ capacity with constant agitation. Do not use highly alkaline or highly acidic water to mix sprays. Use a buffering agent if necessary to maintain neutrality (pH 6 - 8) of water in the tank. Do not allow spray mix to stand overnight.

APPLICATION RATES

Foliar: **Triathlon BA** should be sprayed at 3 to 10 day intervals at a rate of 0.5 quarts to 6 quarts per 100 gallons.

Drench: Mix 0.5 to 4.5 pints per 100 gallons and apply as a coarse spray or drench to soil or media in pots.

Cutting or root dip: Dip basal end of cuttings or bare roots (individually or in bunches) in a suspension of 1 to 2 pints per gallon of water. Immerse for 5 - 10 seconds immediately before planting.

Chemigation: Mix 0.5 to 4.5 pints per 100 gallons of water and apply via drip, handheld, or sprinkler irrigation systems.

Phytotoxicity: **Triathlon BA** should be trialed first before widespread application to open blooms. Refer to the label for precautions on tender foliage and flowers.

Summary of trials to date

Disease	Results
Algal leaf spot	good
Alternaria	none to good
Botrytis	good to excellent
Fireblight	none to good
Fusarium	some to good
Powdery Mildew	some to very good
Pseudomonas leaf spot	some
Rhizoctonia damping-off	some to very good
Rust	none to excellent
Sclerotium	some
Xanthomonas leaf spot	very good to excellent
Xanthomonas blight and leaf spot	very good to excellent

Summary provided by A. R. Chase, Chase Ag Consulting, LLC.

This table represents research trials performed one the past 25+ years on Terraguard. The summary of results shows typical range of activity based on the fact that ornamentals includes many types of crops, both indoors and outdoors. Growers produce their crops in a variety of ways and results can be dependent on the growing conditions. Additionally, researchers rarely perform trials exactly the seem in different parts of the country.

ARChase

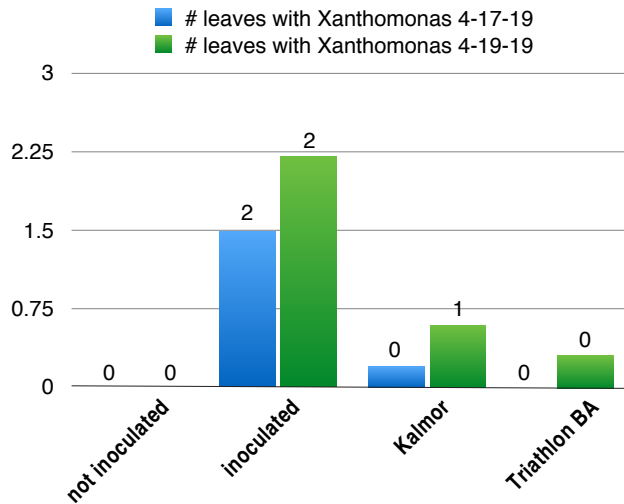
Use of Triathlon BA according to the labeling is subject to the use precautions and limitations imposed by the label affixed to the container. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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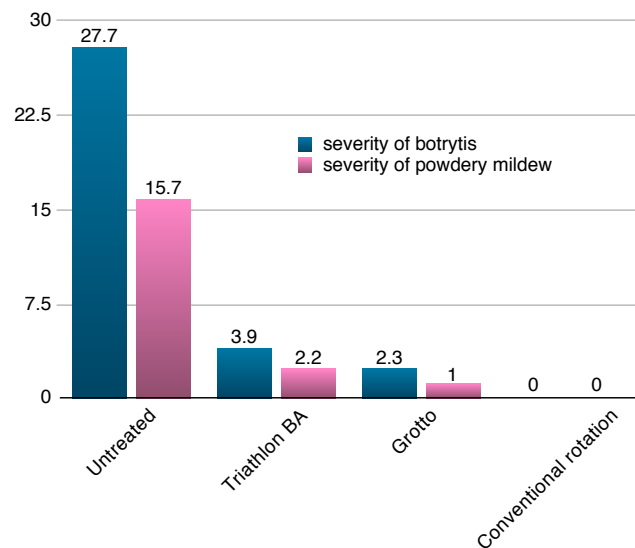
Xanthomonas on Ranunculus

Chase Ag Consulting, 2019



Control of Powdery Mildew and Botrytis on Raspberries in high tunnels

J.M. Gillet Michigan State 2018



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