

NEW YORK STATE INTEGRATED PEST MANAGEMENT *Biopesticide Profile*

Timorex ACT

Active ingredient
tea tree (*Melaleuca alternifolia*) oil

This information is not meant to be a substitute for reading the label. Always read and follow all pesticide labels. Ensure the pesticide is currently registered in your state.

PRODUCT

Formulations: NA

Pests: Plant diseases

FRAC Code (Fungicide Resistance Action Committee): BM 01 (formerly Group 46)

Mode of Action (see next page): Poison; Induce plant resistance

APPLICATION

Where to apply: Horticultural and agricultural crops; Foliage, soil

When to start applying: When disease pressure is low

How to apply: Keep spray solution at pH 5.5-7.5

Tank mix & application compatibility: Do not apply within 7 days of sulfur, captan, or chlorothalonil

ENVIRONMENT

Temperature tolerance in field:
Do not apply > 95°F

Rainfastness: Within 2 hrs

UV tolerance: Up to 14 days; more resilient to UV since not live microbe

STORAGE

How to store: Dry, cool place away from direct sunlight or heat. Do not freeze or overheat.

Shelf life: 2-3 years if stored correctly

RISK

Signal word: Caution

REI (Restricted-entry interval): 4 hrs

PHI (Pre-harvest interval): 48 hrs

Impacts on beneficial insects: Manufacturer reports tested and non-toxic (at labeled rates) to bumble bees, honey bees, minute pirate bug, 3 species of predatory mites, 2 species of parasitoid wasps

**Cornell
Cooperative
Extension**

 **IPM** New York State
Integrated Pest Management
Program

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About biopesticides





















USING BIOPESTICIDES

- Apply preventatively.
- Use as part of an IPM strategy, including cultural management practices, other pesticides, etc.
- Mix only what you need; don't leave in spray tank overnight.
- Don't expose to excessive heat in storage.
- When tank mixing, follow label instructions for all products. Check with company rep or distributor if you have questions. Do a "jar test" to determine physical compatibility if you want to mix two products for which you cannot find information on their compatibility.
- Proper cleaning of spray tanks after any pesticide application is always important. Pay special attention to tank cleaning when a biopesticide is applied after another incompatible product.

HOW BIOPESTICIDES WORK

Modes of action (MOAs)



Eat	Live microbe grows on/in pest	 	
Poison	Biopesticide (or its products) kills the pest directly	 	
Keep out	Live microbe grows on plant, leaving no room for pests		
Turn on resistance	Turns on the plant's defenses before pest attacks		
Grow strong plants	Makes plant stronger, healthier, more resilient		
Repel	Pest avoids plants treated with biopesticide		
Stop feeding	Stops pest from feeding; pest eventually starves		
Stop growth	Stops pest from growing or molting; pest eventually dies		
Stop reproduction	Hampers pests' ability to find a mate, lay eggs		

Support for this project provided by:
NYS Department of Agriculture & Markets



LEARN MORE

Efficacy of biopesticides

go.nysipm.org/biopesticide-efficacy

Biocontrol Bytes blog

blogs.cornell.edu/biocontrolbytes/

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