



Invigorated, Roots, and Soil

Bio-Tam[®] 2.0 Biofungicide

Product Use Guide



SePRO Ag
Upgrade Your Crop™

Bio-Tam[®] 2.0 Biofungicide

Invigorated, Roots, and Soil

Cozying up with your crop's roots, Bio-Tam creates a living barrier to most major disease-causing fungi including *Pythium*, *Phytophthora*, *Rhizoctonia*. Inoculating early enables the crop to establish quickly, weather in season abiotic stresses and increase yields. It's your first step in establishing an effective, economical disease control program that performs harmoniously with your other go to fungicides.

Bio-Tam is a unique blend of two highly active *Trichoderma* strains, proven to deliver preventative activity against several key soil-borne diseases. By using two different strains, Bio-Tam provides consistent performance across a wider range of environmental conditions (soil temperature, soil pH, organic matter) when compared to single species formulations. Each strain colonizes the soil rhizosphere where they outcompete pathogens for nutrients and space. In addition, they enter symbiotic relationships with the plant's roots, causing increased root growth and development. They bind to the roots surface, where they offer an expanding shield of protection by actively attacking soil borne pathogens which try and infect the roots. In short, Bio-Tam provides disease protection that actively grows with your crop.

Key features:

- Broad-spectrum disease control, across a wide variety of crops
- Consistent performance across a wide range of soil temperature and pH conditions
- Dormant spores allow for a best in class shelf life of 15 months
- An outstanding formulation with high wettability and dispersibility, that won't clog machinery and does not require constant agitation
- OMRI approved for organic production
- 4-hour REI
- Zero-day PHI



Pests	Vegetables	Grapes	Fruit trees, nuts & berries
<i>Pythium</i> spp.	●		●
<i>Phytophthora</i> spp.	●		●
<i>Rhizoctonia solani</i>	●		
<i>Sclerotinia</i> spp.	●		●
<i>Sclerotium rolfsii</i>	●		
<i>Thielaviopsis basicola</i>	●		
<i>Verticillium dahliae</i>	●		●
<i>Armillaria mellea</i>		●	●
<i>Esca</i> disease agents		●	

Application Guidelines

From transplant to harvest just dip, strip and let it rip.

Bio-Tam is a preventative biofungicide, so it's critical to apply it before any disease is present. The spores become active and start colonization once soil temperatures reach 50°, and it's critical to maintain moist soil conditions for optimum performance. Getting your crop off to a solid, disease-free start is easy when you follow these guidelines:

Dip. Successful use starts early, in the greenhouse if possible. For cuttings, or bare root transplants, crowns or bulbs, dust them with undiluted Bio-Tam, or dip them in a suspension that contains 0.25 to 2.0 pounds of Bio-Tam per gallon of water, then plant as you normally would. For traditional flats of transplants, suspend 2.5 to 7.5 ounces of Bio-Tam in 100 gallons of water and apply it to the flats as a drench. Use 50 to 100 gallons of the solution per 800 ft² when the flats or beds do not exceed 4 inches deep. This first step establishes the bond between the roots and the *Trichoderma*, stimulating root development and providing critical early disease prevention.

Strip. The second application should occur in the field just before direct seeding, or up to a week before transplanting occurs. Bio-Tam may be applied directly into the seeding trench, or as a banded application to the top of the rows. This helps create an initial field colony of *Trichoderma* within the root zone, and augments the protection brought to the field from the greenhouse.

Let it rip. Begin your standard fungicide program on the same schedule as you normally would. Bio-Tam is compatible with a wide range of other biological and conventional fungicides, making it perfect for inclusion in IPM programs. Using Bio-Tam to protect against soilborne disease pressure, allows you to focus on protecting your crop from early season foliar diseases. Once established, compatible foliar programs will not interfere with your *Trichoderma* population, enabling the two programs to work in concert and deliver enhanced yields. Bio-Tam applications may be rotated in every 14 to 21 days as needed depending upon disease pressure.

Bio-Tam 2.0 compatibility

The fungicides listed are fully compatible with Bio-Tam and may be tank-mixed for enhanced control of many diseases.

Compatible Fungicides				
See product label for a full list of compatible and non-compatible fungicides.				
Azoxystrobin	Copper oxychloride	Fluazinam	Kresoxym-methyl-	Myclobutanil
Boscalid	Cyazofamid	Fosetyl-AI	Mandipropamid	Pyraclostrobin
Copper hydroxide	Cyprodinil	Iprodione	Mefenoxam	Sulphur

Bio-Tam is not just compatible, it can also improve conventional IPM programs, working to build yields and protect against the development of resistant pathogens. The studies below highlight the yield effect that can be seen when using Bio-Tam to get your crop off to a fast start, then continuing with a strong conventional disease control program.

Bio-Tam 2.0 on Pepper			
Phytophthora crown rot (<i>Phytophthora capsici</i>); University of Georgia, Ji; (Market yield, lb/plot)			
Rotational Fungicide Program	Soil and Transplant Preparation	Market Yield (lb/plot)	Percent increase with Bio-Tam 2.0
Presidio (4flobz/A) + Kentan 40DF (2lb/A) foliar 10/30datp; alt/w Ridomil Gold Cu (2lb/A) foliar 10/20/30/40 datp	Bio-Tam 2.0*	15.3	30.8%
	No Bio-Tam	11.7	
Ridomil Gold (1pt) drench tp; Ridomil Gold Cu (2lb/A) foliar 10/20/30/40 datp	Bio-Tam 2.0	14.7	16.7%
	No Bio-Tam	12.6	
Ridomil Gold (1pt) drench tp	Bio-Tam 2.0	11.9	35.2%
	No Bio-Tam	8.8	
Untreated Control	Bio-Tam 2.0	11.1	109.4%
	No Bio-Tam	5.3	

Bio-Tam was applied at 2.2 lb/A as a drench 7 days before transplant, then again at transplant

Bio-Tam 2.0 on Squash			
Phytophthora blight (<i>Phytophthora capsici</i>); University of Kentucky, Seebold; (Marketable fruit wt, lb)			
Rotational Fungicide Program	Soil and Transplant Preparation	Market Yield (lb/plot)	Percent increase with Bio-Tam 2.0
Ridomil Gold SL (1pt) drip wk 1; Presidio SC (4flobz) + Kentan DF (2lb) foliar wk 3,5; Ridomil Gold Cu (2lb) foliar wk 4	Bio-Tam 2.0*	31.1	7.2%
	No Bio-Tam	29.0	
Presidio SC (4flobz) + Kentan DF (2lb) foliar wk 3,5; Ridomil Gold Cu (2lb) foliar wk 4	Bio-Tam 2.0	31.5	22.1%
	No Bio-Tam	25.8	
Ridomil Gold SL (1pt) drip wk 1; Revus (8flobz) + Kentan DF (2lb) foliar wk 3,5; Ridomil Gold Cu (2lb) foliar wk 4	Bio-Tam 2.0	20.5	-17.3%
	No Bio-Tam	24.8	
Revus (8flobz) + Kentan DF (2lb) foliar wk 3,5; Ridomil Gold Cu (2lb) foliar wk 4	Bio-Tam 2.0	24.3	4.3%
	No Bio-Tam	23.3	
Ridomil Gold SL (1pt) drip wk 1; Ridomil Gold Cu (2lb) foliar wk 3,4,5	Bio-Tam 2.0	27.0	68.8%
	No Bio-Tam	16.0	
Ridomil Gold SL (1pt) drip wk 1	Bio-Tam 2.0	26.7	71.2%
	No Bio-Tam	15.6	
Untreated Control	Bio-Tam 2.0	20.7	60.5%
	No Bio-Tam	12.9	

Bio-Tam (2.2 lb/A) was applied through drip irrigation at transplant and then again at week 1

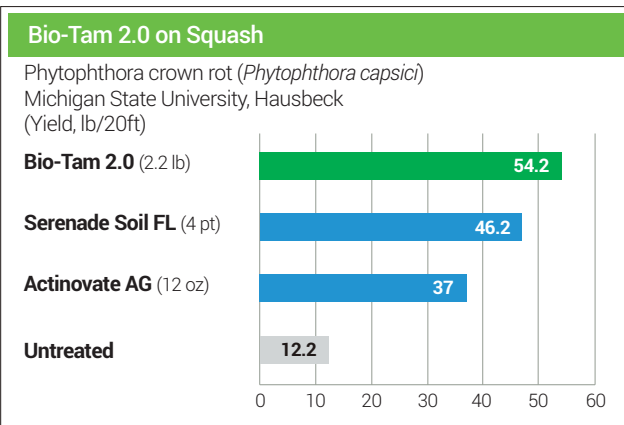
A cornerstone for organic production

OMRI approved and MRL exempt, Bio-Tam is an outstanding foundational biofungicide that gets your organically grown crop off to a strong start. It excels at controlling soilborne diseases other organic fungicides might miss, while lending strength to a well rounded biologically based IPM program. A comparison between Bio-Tam and other leading OMRI certified products can be seen in the charts on the right.

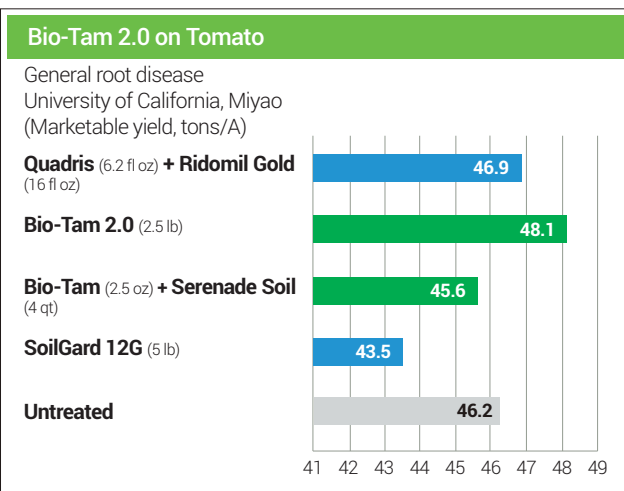
The bottom line on Bio-Tam 2.0

You protect your crops against soilborne diseases to help improve your bottom line. Bio-Tam helps you build your bottom line from the bottom up. It promotes increased root growth, plant size, and above all, marketable yield. Organic production, conventional program or a little bit of both. It's all about getting the crop off to a fast, disease free start.

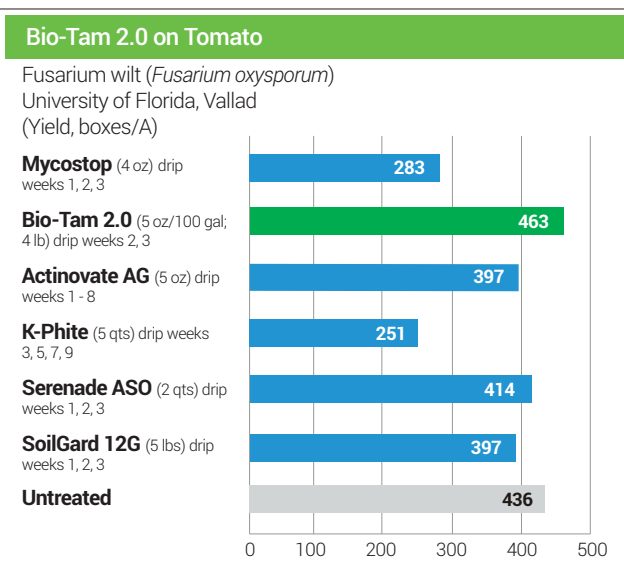
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All treatments, drench tp, 2 week intervals



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