

# BOTECTOR®

## TECHNICAL BULLETIN

# EFFECTIVE PROTECTION AGAINST BOTRYTIS & OTHER FRUIT ROT DISEASES



Botector® is a highly effective biofungicide that works through competitive exclusion to prevent various fungal diseases, which can lead to significant crop losses and may negatively impact fruit quality. In addition to preventing botrytis in grapes and berries,

Botector® is approved for use in the control of botrytis in tomatoes, anthracnose, phomopsis and rhizopus rots in berries, Eastern filbert blight in hazelnuts, blossom blight and brown rot in stone fruit and almonds, and post-harvest rots in pome fruit.

### PRODUCT BENEFITS

- Works through competitive exclusion
- Ideal for use in Integrated Pest Management Programs
- No pathogen resistance
- No effect on wine quality
- Exempt from Maximum Residue Limits (MRLs)
- Zero pre-harvest interval
- Safe for pollinators and beneficial insects
- Approved for organic production

### Mode of Action: Competition for Space and Nutrients

Botector® contains naturally-occurring ubiquitous microorganisms (*Aureobasidium pullulans*) that prevent the pathogen from colonizing infection sites on the grape or berry surface. Botector® inhibits the pathogen through natural competition for space and nutrients. It aggressively colonizes the flower and fruit surfaces, blocking the site of infection. Since Botector® acts as a competitive antagonist and does not directly affect the metabolism of the pathogen, there is no risk of developing resistance, even with frequent applications.

### GRAPE APPLICATION TIMINGS & RATES

- Between early and late bloom (10%-80%)\*
- Before bunch closure
- During veraison/berry softening
- During ripening\*\*

6-14 ounces per acre with 100-500 gallons of water sprayed into the bunch zone.

\*1-3 applications depending on infection pressure

\*\* Additional applications with intervals of 3-7 days depending on infection pressure.

### BERRY APPLICATION TIMINGS & RATES

- Weekly from beginning of bloom until end of harvest.
- Since Botector® is not systemic, new tissue is not protected against disease. Time the applications to minimize unprotected tissue.

5-10 ounces per acre with 100-500 gallons of water.

**Contact SAN Agrow for additional crop application timings and rates.**

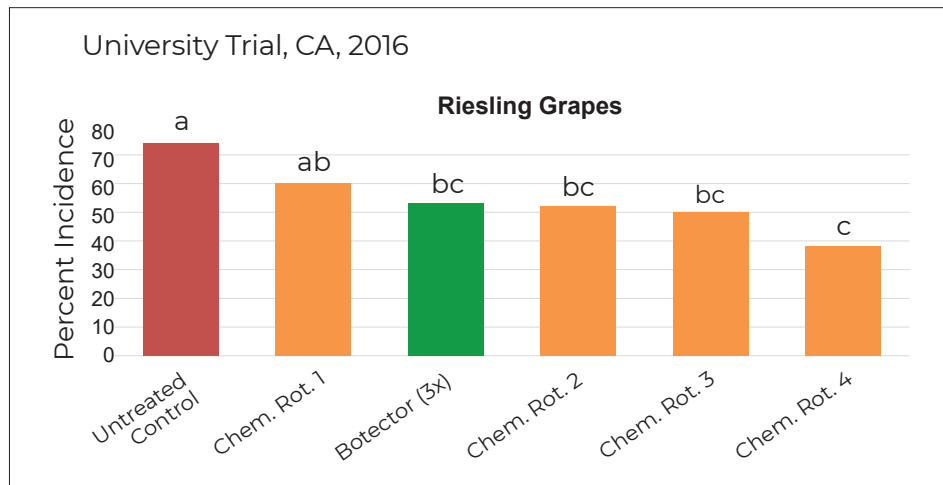
### PRODUCT STORAGE AND STABILITY

- **KEEP REFRIGERATED FOR MAXIMUM SHELF LIFE. DO NOT FREEZE.**
- From date of manufacture, Botector® can be stored 30 months at cold temperature (not to exceed 46°F), or 18 months at room temperature (not to exceed 68°F).
- Botector® must be stored out of direct sunlight in a cool dry place.
- Always keep out of reach of children.
- Wastes resulting from the use of Botector® may be disposed of on-site or at an approved waste disposal facility.

### COMPATIBILITY/MISCIBILITY:

For detailed information on the compatibility of Botector® with other products, please refer to: <http://www.bio-ferm.com/en/products/botector/>

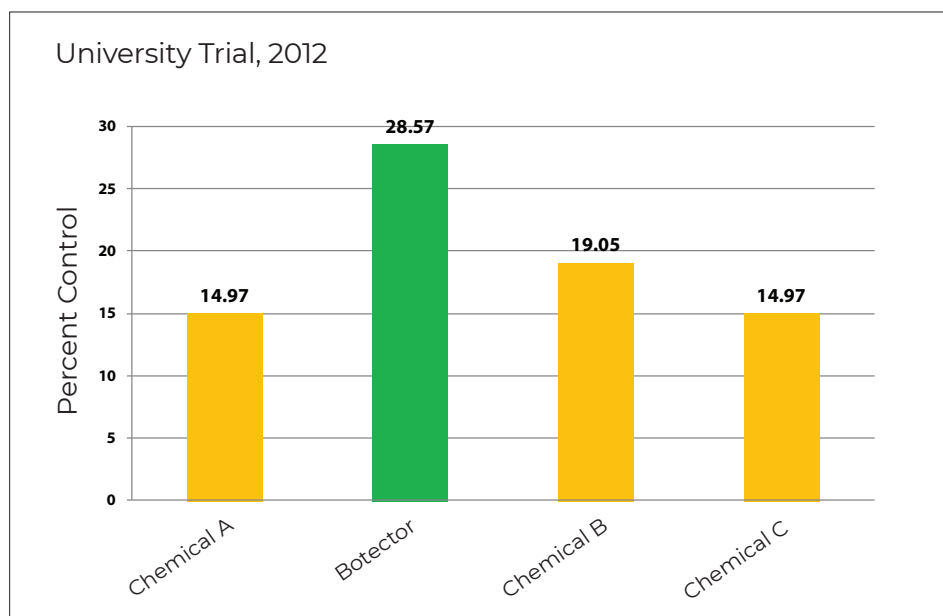
## Botector® is Comparable to Conventional Controls in the Prevention of Botrytis on Grapes



~ Three applications with rotating chemicals - (1): BLAD//Cyprodinil//Fenhexamid; (2): Fluopyram/Tebuconazole//Fluopyram/Tebuconazol//Pyrimethanil/Bacillus subtilis QST 713; (3): Pyraclostrobin/Boscalid//Fenhexamid//Fludioxonil/Cyprodinil; (4): Fluopyram/Tebuconazole//Pyrimethanil//Trifloxystrobin

~ Spray Dates: Full Bloom (5/10), Pre-Closure (6/10), and Veraison (8/4)

## Botector® Increases Botrytis Control on Strawberries



FOR ORGANIC PRODUCTION