

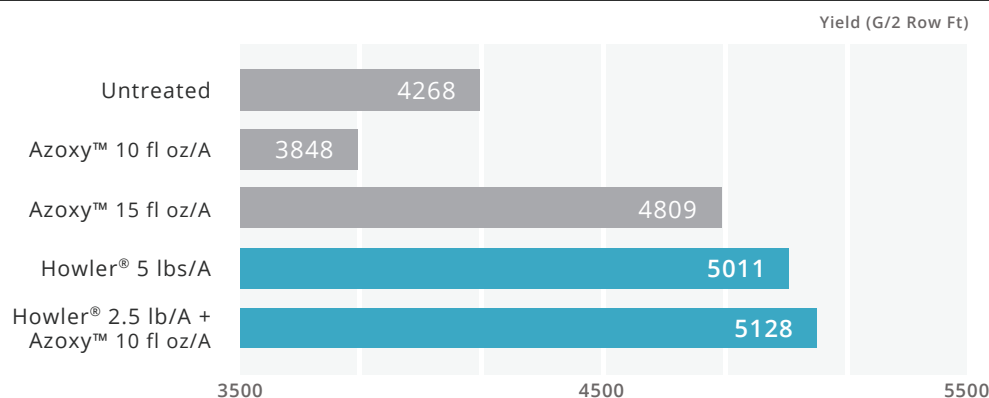
# HOWLER®

## FOR CUCURBITS



Introducing Howler® fungicide from AgBiome Innovations, a revolutionary fungicide that harnesses the power of the plant microbiome to create an efficacious fungicide with multiple modes of action that provide preventive, long-lasting activity on a broad spectrum of soilborne and foliar diseases. Howler® fungicide can be used effectively at every phase of production: greenhouse, pre-plant through harvest.

### HOWLER® EFFECT ON CUCUMBER YIELD: DOWNY MILDEW (CA)



Howler® alone and reduced rates of Howler and Azoxystrobin produced the highest yields.

- High disease pressure in the untreated
- Application Method: foliar spray
- Application volume: 50 GPA
- Number of Applicants: 4
- Spray interval: 7-14 days
- Assessments: g 2/ft

TRIAL ID: ABI-IV19-FT-CUC-AZXY-01

### Target Diseases:

- Downy Mildew
- Gummy Stem Blight
- Fusarium



### Key Features & Benefits

- Novel mode-of-action fungicide with multiple sites of action
- Superior, broad spectrum control of key soil-borne and foliar diseases
- Compatible with synthetic chemistries either as a tank mix or program partner
- Exempt from US residue tolerances
- 4-hr REI
- 0-day PHI
- Application flexibility – can be applied by soil incorporation, drench, drip, foliar or chemigation
- OMRI approved

# HOWLER®

EPA REGISTRATION NUMBER:  
91197-3-92488

ACTIVE INGREDIENT:  
*Pseudomonas chlororaphis* strain AFS009

FORMULATION:  
Dry Flowable

RATE:  
5 lbs/acre alone or 2.5 lbs/acre in a tank mix with  
another fungicide

## Best Management Practice for Mixing Howler® Fungicide:

Howler® fungicide is a 50% dry flowable (DF) formulation. Howler® fungicide can be applied by incorporation, drip or drench applications, chemigation, and foliar.

## Compatibility:

Howler® has been tested with a variety of tank mix partners. However, it is not possible to test all possible combinations. To ensure compatibility of products, it is recommended to conduct a jar test (see product label).

## Application:

Foliar, field chemigation, or drench. Howler® can be applied using conventional spray application equipment and spray volumes but cannot be applied via aerial application.

## Equipment and Procedures for Mixing Howler® Fungicide for Best Results:

### EQUIPMENT:

Continuous, vigorous agitation is required for dispersion and uniform suspension.

The following methods can improve mixing: Pre-mix tank/mixing inductor, paddle agitation, and pre-slurrying (5 lb in a 5-gallons of water using a paint stirrer)

### MIXING:

- Fill spray tank 1/3 with clean water
- Dispense Howler® via induction or pre-tank
- Finish filling spray tank to the desired volume
- Allow Howler® fungicide to be mixed before adding other products

### MIXING ORDER BY FORMULATION TYPE:

- Howler® DF
- Dry flowables
- Liquid flowables
- Emulsifiable concentrates
- Adjuvants (spreaders, stickers, etc.) and nutritionals

IN-FURROW SPRAY OR TRANSPLANT STARTER SOLUTION:  
Howler® is applied at 67 oz/100 gal water.

### FOLIAR:

Apply at 7-21 day intervals as needed. Thoroughly cover plant foliage and soil surfaces with spray solution.

### PRE-HARVEST INTERVAL (PHI):

0 days

