

BROAD SPECTRUM PEST CONTROL

LALGUARD M52 OD (formerly Met52) is an effective and versatile bioinsecticide for foliar and soil pest management. Composed of spores of the fungus *Metarhizium brunneum* strain F52 (formerly *Metarhizium anisopliae*), this bioinsecticide provides proven pest control efficacy with minimum impact to applicators, non-targets, and the surrounding environment.

LALGUARD M52 OD offers growers proven efficacy against the most destructive pests infesting greenhouse and open field crops, which include:

- ✓ Whiteflies
- ✓ Psyllids
- ✓ Aphids
- ✓ Ticks
- ✓ Thrips
- ✓ Weevils
- ✓ Mites

Refer to the product label for the complete list of pests.

ADVANTAGES

- Broad spectrum control
- No known risks for resistance
- Compatible with IPM programs using beneficial insects
- Tolerance exempt

MODES OF ACTION

LALGUARD M52 OD causes the insect to die in 3 to 7 days after application. When in contact with the pest, spores of the active ingredient:

- Adhere to the insect's body
- Germinate and penetrate the insect cuticle (3 to 4 hours)
- Colonize and kill the insect

*Only in US states where legally permitted. Contact your Lallemand representative for information.

CHARACTERISTICS

EPA Reg. No.:
64137-33

Active Ingredient
Metarhizium brunneum
strain F52

Package Size
1.06 quart (1 liter)

Storage information
12 month shelf-life in a dry
and cool place ≤68°F (20°C).
18 months at 40°F (4°C).

4-hour REI drench, dip and
foliar applications
0-hour REI soil incorporated
0-day PHI

Always read and follow label instructions



RECOMMENDED CROPS



Greenhouse
Fruit & Vegetables



Turf



Field-Grown
Fruit & Vegetables



Cannabis*



Ornamentals

About Lallemand Plant Care

Since the beginning of the 20th Century, LALLEMAND has been an expert in yeast and bacteria manufacturing. The family-owned company is now a global leader in the development, production, and marketing of microorganisms for various agri-food industries. Using sound science and know-how, LALLEMAND PLANT CARE (LPC) works closely with clients to deliver the right technology, in the right formulation, for the right application. LPC is committed to solving grower challenges, significantly improving yield and crop vitality.

Microbial By Nature

www.lallemandplantcare.com

LALLEMAND

LALLEMAND PLANT CARE




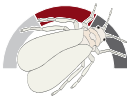
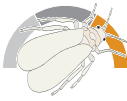
LIQUID



BIOINSECTICIDE

PRODUCT USE RECOMMENDATIONS

LALGUARD M52 OD can be applied preventively and as a rotational tool.

	CROP GROWTH STAGE	PEST OCCURANCE	HOW TO INCORPORATE	BENEFITS
PREVENTIVE	Early crop season	 First pest appearance	Start the crop season with LALGUARD M52 OD applications, 2 to 7 day intervals.	Delays increase of pest infestation.
	Advanced crop season	 Pest population outburst	Rotate LALGUARD M52 OD with conventional products to knockdown pest populations.	Reduces risk of resistance.
ROTATIONAL	Harvest time	 Pest management	Rotate LALGUARD M52 OD with conventional products.	Tolerance exemption reduces residues in harvested crops.

APPLICATION RATES

CROP	PEST	APPLICATION	RATE
Cucurbits	Thrips ¹ , Whiteflies, Mites	Drench	40–80 fl. oz. / 100 gal
		Foliar	8–64 fl. oz. (0.5 pt.–2 qt.) / acre
Onions	Thrips ¹	Drench	40–80 fl. oz. / 100 gal
		Foliar	8–64 fl. oz. (0.5 pt.–2 qt.) / acre
Celery, lettuce, spinach	Thrips ¹ , Whiteflies, Mites, Aphids, Psyllids	Drench	40–80 fl. oz. / 100 gal
		Foliar	8–64 fl. oz. (0.5 pt.–2 qt.) / acre
Peppers, tomatoes	Thrips ¹ , Whiteflies, Mites, Aphids, Psyllids	Drench	40–80 fl. oz. / 100 gal
		Foliar	8–64 fl. oz. (0.5 pt.–2 qt.) / acre
Grape, strawberry, cranberry, raspberry, blackberry, blueberry <small>For cranberry applications, do not apply to flooded fields.</small>	Thrips ¹ , Whiteflies, Mites, Weevils ² , Aphids, Psyllids	Drench	40–80 fl. oz. / 100 gal
		Foliar	8–64 fl. oz. (0.5 pt.–2 qt.) / acre
Potatoes	Psyllids	Foliar	8–64 fl. oz. (0.5 pt.–2 qt.) / acre
Ornamental plants and grasses including, but not limited to: shrubs, vines, trees, lawn, bedding plants, poinsettia	Thrips ¹ , Weevils ² , Mites, Whiteflies	Drench	40–80 fl. oz. / 100 gal
		Foliar	8–32 fl. oz. (0.5 pt.–1 qt.) / 100 gal, spray to wet but avoid runoff
Turf: institutional, residential lawns (urban and suburban)	Ticks	Foliar	2–3 fl. oz. / 1000 ft ²

¹ Drench application only for Thrips pupae.

² Drench application only for Weevil larvae.