

LALGUARD M52^{od}

Broad spectrum bioinsecticide

Effectively protect your crops against pests

BIOINSECTICIDE

Metarhizium brunneum strain Ma 43

LALGUARD M52 OD is a bioinsecticide formulated with a high concentration of *Metarhizium brunneum* strain Ma 43. The technology of encapsulating the spores with oil microdroplets promotes the viability of the entomopathogenic fungus. LALGUARD M52 OD is applied by foliar spray for effective control of crop pests in protected and open field conditions.



MODES OF ACTION ADHESION DIALLEMAND PLANI Spore When applied, the fungal spores adhere to the insect cuticle. A germ tube rapidly develops at the point of Appressorium contact. **Epicuticule** Point of penetration PENETRATION The germ tube produces a large variety Cuticule of enzymes in order to perforate the insect's cuticle completely and gain access to the haemolymph. Epidermis 📕 Blastospore The fungus then multiplies in the form of a large number of blastospores, Haemolymph causing progressive necrosis and death within 3 to 7 days.

BENEFITS

• Proven effectiveness against a broad spectrum of pests:

Thrips *(Thysanoptera)*, Whiteflies *(Trialeurodes vaporarorium, Bemisia tabaci)*, Spider mites *(Tetranychidae)*

- Formulation suitable for use in protected and open-field conditions
- Can be used on a wide range of crops: strawberry, cucumber, courgette, melon, pumpkin, tomato, pepper, chilli, onion, shallot, garlic, leek and ornamental plants

ADVANTAGES

- Management of resistance risk
- Compatible with Integrated Pest Management (IPM)
- No pesticide residues
- Can be used in organic farming

LALLEMANDPLANTCARE_COM

LALLEMAND



LALGUARD M52°

AUTHORISED USES

ТҮРЕ	CROP	TARGET	DOSE RATE (L/ha)	STAGE	NUMBER OF TREATMENTS
Protected	Cucumber, courgette, summer squash, melon, winter squash, pumpkin, aubergine	Thrips, spider mites, whitefly	1.25 L/ha	All	8
	Strawberry	Thrips, spider mites			8
	Pepper, chili, tomato	Thrips, spider mites, whitefly			8
	Nursery fruit trees	Whitefly			8
	Ornamental plant production	Whitefly			8
Open field	Leek, onion, spring onion, garlic, and shallot	Thrips			6

A minimum interval of 3 days must be observed between applications.

COMPATIBILITY:

In a rotational program, LALGUARD M52 OD is compatible with many fungicides, insecticides and beneficial insects and can be used in Integrated Pest Management (IPM) programs. Please check the compatibility table before mixing with plant protection products of spray in the presence of macro beneficials.

CHARACTERISTICS

• ACTIVE INGREDIENT: Metarhizium brunneum strain Ma 43 2.10¹² CFU*/L *CFU: colony forming unit. Enumeration of living micro-organisms

capable of multiplying

- FORMULATION: oil dispersion (OD)
- PACKAGING: 1 L
- STORAGE: 24 months between +4°C and +20°C
- MAPP 19824 PCS 05859
- Can be used in organic farming

USAGE RECOMMANDATIONS

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, 3 to 7 day intervals	Delays increase of pest infestation
ROTATIONAL	Advanced crop season	Pest population outburst	Rotate LALGUARD M52 OD with conventional products to knockdown pest populations	Reduces risk of resistance
	Harvest time	Pest management	Rotate LALGUARD M52 OD with conventional products	Tolerance exemption reduces residues in harvested crops

Authorisation holder: DANSTAR FERMENT AG/ LALLEMAND PLANT CARE

Poststrasse 30, CH-6300 Zug SWITZERLAND

Microbial by nature



GBR-EN V02 01/2024