

## DATA SHEET

# NACILLUS HORTALIZAS BACTERICIDE WETTABLE POWDER (WP)

**NACILLUS HORTALIZAS** is a biological bactericide composed of native strains of the biocontrollers *Bacillus spp.* and *Brevibacillus brevis*. With action on bacteria according to the instructions for use.

The formulation of **NACILLUS HORTALIZAS**, is composed of endospores, which are recognized as the most resistant survival structures in nature, being able to withstand high temperatures and absolute lack of humidity.

Strains of *Bacillus spp.* and *Brevibacillus brevis* used have bactericidal action through competition, antibiosis and predation of phytopathogenic bacteria, achieving both preventive and curative control of the diseases presented in the "Instructions for use" table.

Biological bactericide composed of native strains of the biocontrollers *Bacillus subtilis*, *Bacillus licheniformis* and *Brevibacillus brevis*.

**Chile SAG Registry No. 2.928-O**  
**Authorized by SAG for use in national organic agriculture.**

## Formulation

COMPOSITION	(% p/p)
<i>Bacillus subtilis</i> strain Antumávida	0.602% p/p (6,02 g/Kg)
<i>Bacillus subtilis</i> strain Vilcún	0.602% p/p (6,02 g/Kg)
<i>Bacillus licheniformis</i> strain Mallerauco	0.602% p/p (6,02 g/Kg)
<i>Brevibacillus brevis</i> strain Maguellines	0.602% p/p (6,02 g/Kg)
<i>Brevibacillus brevis</i> strain Maguellines I	0.602% p/p (6,02 g/Kg)
Coformulants q.s.s.	100% p/p (1 Kg)
Contains a concentration of strain sums $1 \times 10^8$ ufc/g	

## INSTRUCTIONS FOR USE TABLE

### Table Instructions for Use for Land Applications

CROP	DISEASE / PATHOGEN	DOSE (g/hL ó 100 L)	REMARKS
Tomato	Bacterial spot ( <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> ) Bacterial canker ( <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> ) Bacterial freckle ( <i>Pseudomonas syringae</i> pv. <i>tomato</i> )	300 (Preventive)	In nursery, transplant and after any work that generates wounds. Foliar application in nursery and after transplanting, tying, first weeding and hormone application (after any work that generates wounds). Then, only in the presence of symptoms
		500 (Curative)	Curative, applications every 3 days, until lesions are dry and without progress. Minimum 2 applications and the maximum per season will depend on the phenological stage, tillage and generation of wounds in the crop, with wettings of 300 - 400 L/ha.
Cabbage	Black rot ( <i>Xanthomonas campestris</i> pv. <i>Campestris</i> )	300	Foliar application with wetting of 200 L/ha every 7 to 14 days in the presence of symptoms or favorable conditions for the disease. Repeat in presence of new symptoms or favorable conditions for the pathogen.
Lettuce	Bacterial blight ( <i>Pseudomonas cichorii</i> )	300	Foliar application with wetting of 200 L/ha every 7 to 14 days in the presence of symptoms or favorable conditions for the disease. Repeat in presence of new symptoms or favorable conditions for the pathogen.

## Table Instructions for Use for Area Applications

CROP	DISEASE / PATHOGEN	DOSE (g/hL ó 100 L)	REMARKS
Tomato	Bacterial spot ( <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> ) Bacterial canker ( <i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i> ) Bacterial freckle ( <i>Pseudomonas syringae</i> pv. <i>tomato</i> )	1 kg/ha	Foliar application from transplanting. Then, in presence of symptoms, with wettings of 50 to 80 L/ha. Minimum 2 applications and the maximum per season will depend on the phenological stage, tillage and generation of wounds in the crop.

**Preparation of the mixture:** Dissolve the necessary amount of **NACILLUS HORTALIZAS** in a bucket of water, shaking vigorously, then pour into the application equipment that has previously been filled halfway; shake and finish filling. Keep with constant agitation. In order to ensure its effectiveness, the mixture should be used within a maximum period of 12 hours.

**Incompatibility:** Incompatibility for joint applications with cupric compounds and antibiotics. Do not mix **NACILLUS HORTALIZAS** with other pesticides without first performing a compatibility test. Check with the manufacturer's compatibility list.

**Phytotoxicity:** There is no phytotoxicity in recommended crops.

**Grace Period:** None.

**Re-entry time to the treated area:** In the case of humans, it is possible to re-enter 2 hours after application or once the deposit has dried on the foliage. For animals, it does not apply, as these crops are not for animal consumption.

**Storage:** **NACILLUS HORTALIZAS** should be stored in their original sealed container, in a cool, dry environment. Maximum storage time: 24 months.

### Use in organic and biodynamic agriculture:

Product suitable for use in Organic Farming in accordance with: NOP Regulation and JAS Regulation.  
Control ECOCERT F-32600.



Product suitable for use in organic agriculture in accordance with the KIWA BCS regulation.  
Product suitable for use in Biodynamic Agriculture in accordance with the DEMETER

**International regulation  
Authorized by SAG for use in national organic agriculture.**



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