



BIOFUNGICIDE

Streptomyces strain K61

LALSTOP K61^{WP}

Broad spectrum disease controlling biofungicide

Fight effectively against root or base-rot diseases

LALSTOP K61 WP contains a high concentration of spores and mycelia of *Streptomyces* sp. K61, an actinobacterium with disease controlling properties present in certain soils.




WETTABLE POWDER

MODES OF ACTION

The active bacteria *Streptomyces* K61 operates through several useful modes of action:

1 **COMPETITION:**
depriving pathogenic fungi of living space and nourishment by colonising plant roots.

Lettuce root colonised by Streptomyces K61



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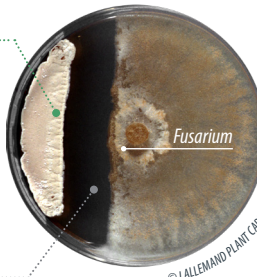
2 **HYPERPARASITISM:**
disrupting and destroying cell walls of plant pathogens.



Streptomyces K61 destroying cell walls of a pathogenic fungi

3 **ANTAGONISM:**
producing metabolites that inhibit plant pathogens in a number of ways.

Antagonistic activity of Streptomyces K61 against Fusarium sp. (isolated from tomatoes)



Streptomyces K61

Fusarium

Zone of inhibition

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BENEFITS

- **Against a wide range of soil-borne plant pathogens (*Pythium*, *Fusarium* and *Phytophthora*)** that cause damping-off, seedling death, crown-rot, base-rot, wilt and root-rot disease.

ADVANTAGES

- **Broad spectrum of use.**
- **Several modes of action:** low risk of resistance.
- **Persistence of action:** 3 weeks in the soil and growing media.
- **Environmental profile:**
 - without toxicological classification.
 - usable in organic farming and zero residue programmes.

APPROVED USES

Use	Targets	Application	Doses	Number of treatments
Soil (cultivation substrates)	Soil cryptogams (Fungi). Proven efficacy against <i>Fusarium</i> , <i>Pythium</i> and <i>Phytophthora</i> in cucumbers, tomatoes and peppers	Preventively. Incorporation into the substrate	10 g/m ² of substrate (10 L of a 0.1 % suspension per m ² of substrate)	1
All crops	Soil cryptogams (Fungi)	Preventively. From sowing, transplanting or repotting	Watering: 20 mg/plant or 10 g/100 m ² . Drip irrigation: 10 mg/plant	1-2 per crop

Other Specific Restrictions:

A minimum interval of 21 days must be observed between applications. Information provided above is compiled from details given on the official PHYTOWEB Facility for Belgium concerning Authorisation N° 9809P/B, Dossier N° 24092, Dated 19/03/2020, Listed against the Registration holder Danstar Ferment AG.

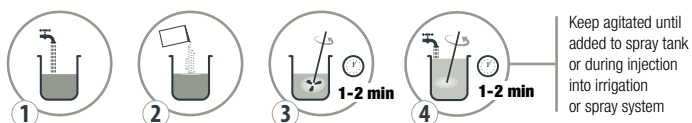
COMPATIBILITY

LALSTOP K61 WP is compatible with many chemical pesticides and can be used in Integrated Pest Management (IPM) programmes.

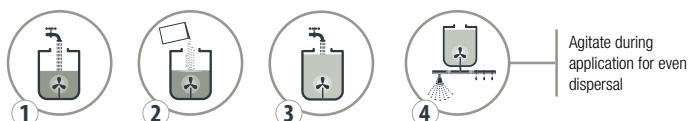
Ask your distributor before mixing with plant protection products.

PREPARATION

Premix concentrate preparation



Mixing in spray tank



Authorization holder: DANSTAR FERMENT A.G.

Poststrasse 30,
CH-6300 Zug
SWITZERLAND

CHARACTERISTICS

- **ACTIVE INGREDIENT:** 10⁸-10⁹ CFU*/g (35%) of spores and mycelia of *Streptomyces* K61
*CFU: Colony Forming Unit. Unit of measure for living microorganisms able to multiply
- **FORMULATION:** wettable powder (WP)
- **PACKAGING:** 25 and 100 g
- **STORAGE:** 12 months in a cool and dry place below +8°C or 2 to 4 weeks at room temperature.
- **AUTHORIZATION N°:** 9809P/B.
- **Usable in organic production.**

USAGE RECOMMENDATIONS

The most efficient way to use LALSTOP K61 WP is preventatively. The active microorganism survives in the rhizosphere for several weeks protecting the crop against pathogens.

LALSTOP K61 WP powder is mainly used in the form of an aqueous suspension.

The application rate depends on whether LALSTOP K61 WP application will be made to a growing medium (soil, compost, other substrate) before sowing or repotting of crop plants or alternatively at a timing from sowing, transplanting, repotting and soil drench of crop plants.

Dose rates for certain cropping situations in Belgium are not recommended to be lower than the following:

- **200 g/ha** per application in greenhouses and open fields.
- **400 g/ha** per application in lawns, green areas and sport fields.