



MYCOSTOP®

LALLEMAND

LALLEMAND PLANT CARE



The
**MICROORGANISM
SPECIALIST**

Naturally fight against damping-off and root or wilt diseases

Mycostop® contains mycelia and spores of *Streptomyces griseoviridis* strain K61, a naturally occurring bacterium isolated from *Sphagnum peat*, selected through Lallemand Research for its capacity to control a range of very important crop diseases.



© LALLEMAND PLANT CARE

Streptomyces griseoviridis strain K61

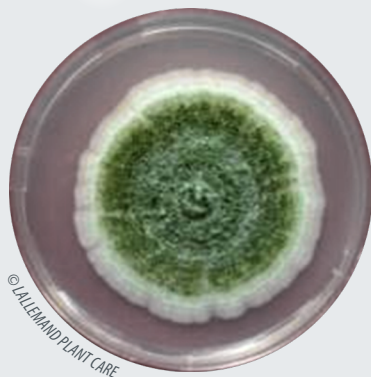
■ BENEFITS

Mycostop® can give effective control of a wide variety of plant pathogens:

- ✓ **Damping-off** caused by various fungi such as *Alternaria* and *Rhizoctonia*.
- ✓ **Wilt and root diseases** caused by *Fusarium*, *Phytophthora* and *Pythium*.

MODE OF ACTION

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



© LALLEMAND PLANT CARE

Streptomyces griseoviridis strain K61 growing on a petri dish

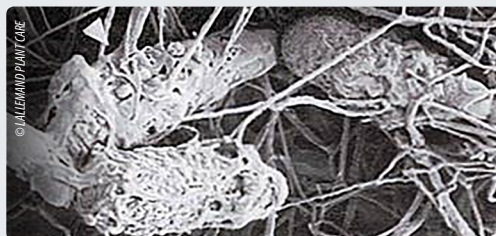
- 1 Competition:** depriving pathogenic fungi of living space and nourishment by colonising plant roots.

Lettuce root colonised by *Streptomyces* K61



© LALLEMAND PLANT CARE

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



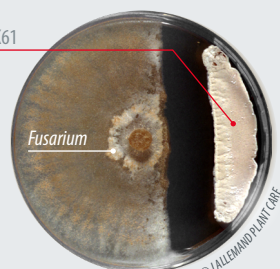
© LALLEMAND PLANT CARE

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

© LALLEMAND PLANT CARE



MYCOSTOP®



SPECIFICATIONS

- **Composition:** 5×10^8 CFU/g (25 % w/w of active ingredient) of spores and mycelium of *Streptomyces griseoviridis* K61.
(CFU: Colony Forming Unit. Unit of measure for living microorganisms able to multiply)
- **Formulation:** wettable powder.
- **Storage:** can be stored unopened for 12 months in a cool and dry place (at or below +8°C). It is recommended that all of the contents of the package are used immediately once opened.
- **Organic Agriculture:** usable in organic production subject to certification body approval.
- **Harvest interval:** none.
- **Harmful residues:** none.
- **Safety:** safe for humans, the environment and beneficials.

COMPATIBILITY

Mycostop® 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.



Manufactured by:

LALLEMAND PLANT CARE

DANSTAR FERMENT AG,
Poststrasse 30, Zug CH-6300
Switzerland

APPLICATIONS

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

Mycostop® powder is mainly used in the form of an aqueous suspension. The application rate depends on the cultivation system and the crop growth stage when Mycostop® is used.

Dose rate & frequency:

	Maximum individual dose	Maximum total dose	Maximum number of treatments	Latest time of application
All edible crops (protected) (seed), all non-edible crops (protected) (seed)	8 g product / kg seed used as a dry seed treatment	—	1 per batch see Other Specific Restrictions 2	—
All edible crops (protected), all non-edible crops (protected)	10 g product/m ³ soil as a soil incorporation only before transplanting seedlings OR 1 kg product/ha	—	1 per batch OR 2 per crop see Other Specific Restrictions 1	—
Protected Edible Fruiting Crops	1 kg product/ha OR 10 g product/1000 plants applied via drip irrigation	—	4 per crop See Other Specific Restrictions 1 OR 4 per crop See Other Specific Restrictions 1	—
Protected Edible Leafy & Fresh Herb Crops	1 kg product/ha OR 10 g product/m ³ soil as soil incorporation OR 1 g product/1000 plants when applied via nutrient film technique (NFT) in a hydroponic system	—	3 per crop See Other Specific Restrictions 1 OR 1 per batch OR 1 per crop	—
Protected Edible Bulb Crops	10 g product/100 L water as a bulb soak prior to planting	—	1 per crop	—
Ornamental plant production (before planting)	10 g product/100 L water as a root dip prior to planting	—	1 per batch	—
Ornamental plant production (protected)	10 g product/m ³ soil as a soil incorporation OR 1 kg product/ha OR 10 g product/1000 plants when applied via drip irrigation	—	1 per batch OR 4 per crop See Other Specific Restrictions 1 OR 4 per crop See Other Specific Restrictions 1	—

Other Specific Restrictions:

- (1) A minimum interval of 21 days must be observed between applications.
- (2) Treated seed must not be used for food or feed.
- (4) Sacks containing treated seed must not be re-used for food or feed.
- (5) Sacks containing treated seed must be labelled with the safety precautions and PPE requirements given on the product label.
- (6) This product may only be used in greenhouses.

Information provided above is compiled from details within the AUTHORISATION FOR A PLANT PROTECTION PRODUCT (PPP), PPP REGULATION (EC) N°1107/2009, Authorisation N°1684 of 2018, MAPP N°18613 (Registration holder: Danstar Ferment AG).

Preparation:

- Mix the wettable powder with a small quantity of water (e.g. 0.5 litres)
- Leave the suspension standing for 30 minutes
- Stir or shake and dilute to the final volume
- Apply the suspension the same day it is prepared or store for a maximum of 2-3 days below +8°C.

LALLEMAND

LALLEMAND PLANT CARE