

The biofungicide Mycostop® effectively controlled root diseases and improved the condition of the root system. The growth-stimulating effect of the product increased the evenness of the plants.



CONTEXT

In cyclamen, pathogens of the root system, as well as varying and stressful conditions during cultivation, stress the root system and reduce plant quality. **Mycostop** contains the ray bacterium *Streptomyces* K61, which has a wide-ranging and long-term control effect against root diseases such as *Pythium*, and *Fusarium*, and the mixed infections they cause. In addition, **Mycostop** stimulates root growth, thereby improving water and nutrient uptake.

OBJECTIVE

To study the effect of Mycostop on controlling root diseases and promoting the growth of cyclamen in a commercial greenhouse under practical conditions.

MATERIALS AND METHODS



LOCATION AND DATE

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June-August/2023



CULTIVAR

'Latinia'- color mix



CULTIVATION

Pot size 12 cm. Gutter cultivation. Irrigation and basic fertilization were given as sub irrigation, no recycled water was used during cultivation. Mycostop was applied with a Dosatron mixer.



TREATMENTS

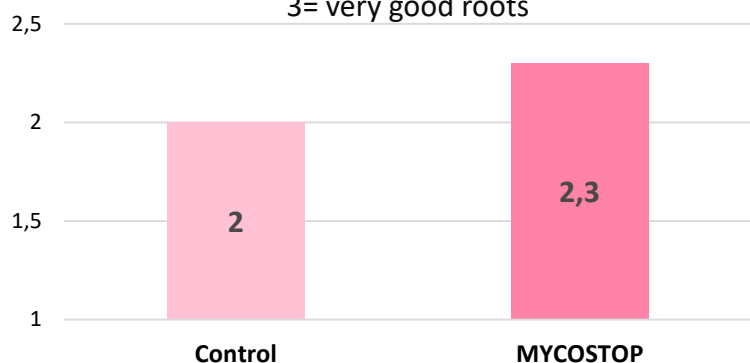
1) Untreated control

2) **Mycostop** drench (3 g/1000 plants) for young plants in trays before potting. After 5 weeks, Mycostop drench (5 g/1000 plants).

- **MYCOSTOP®** increased the root abundance, especially in the middle and upper part of the pot. The fungus *Pythium* was isolated from symptomatic plants. The disease pressure in the plant batch was low.
- Observations on 100 plants, 34 days after second Mycostop treatment.

Average root system condition on a scale of 0 - 3

3= very good roots



Control

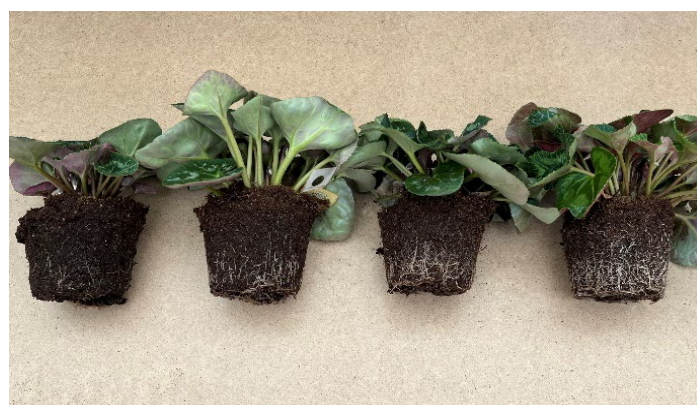
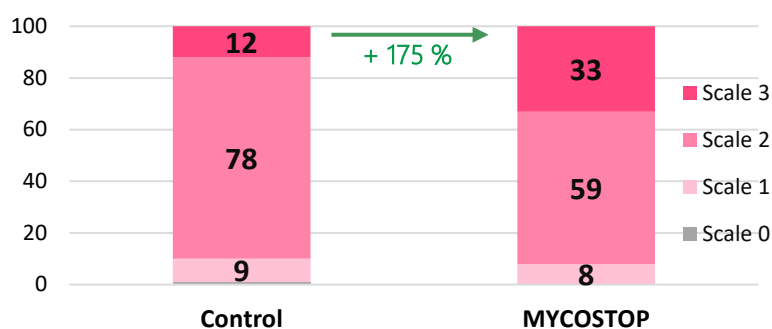


MYCOSTOP

- In the best root category 3 were more **MYCOSTOP®** treated plants.
- Observations on 100 plants, 34 days after second Mycostop treatment.

The abundance of the roots on a scale 0 - 3

3= very good roots



0

1

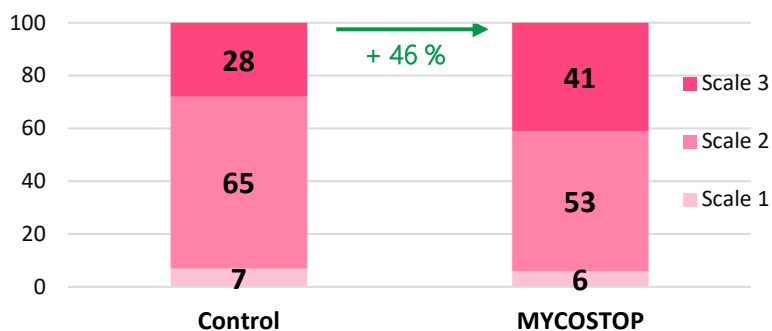
2

3

- **MYCOSTOP** treatment increased the size of the plants.
- Observations on 100 plants, 8 days after second Mycostop treatment.

Plant size on a scale 1 - 3

3= largest plant



1

2

3