

Testing efficacy of arbuscular mycorrhizal product Symbivit® on daisy plants

Experiments conducted by Symbio-m Ltd. Czech Republic



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Summary

Effect of the inoculation of growing substrate with mycorrhizal product Symbivit[®] was tested in an experiment with daisy plants. Mycorrhizal inoculation positively affected the number of lateral shoots (8x higher than control, uninoculated plants), fresh and dry shoot weight (2x higher than control, uninoculated plants) as well as the mycorrhizal colonization.

Purpose/Aims:

The aim of this work was to evaluate the effect of inoculation of growing substrate with mycorrhizal product Symbivit[®] on the blooming of daisy plants.

Procedure/Methods:

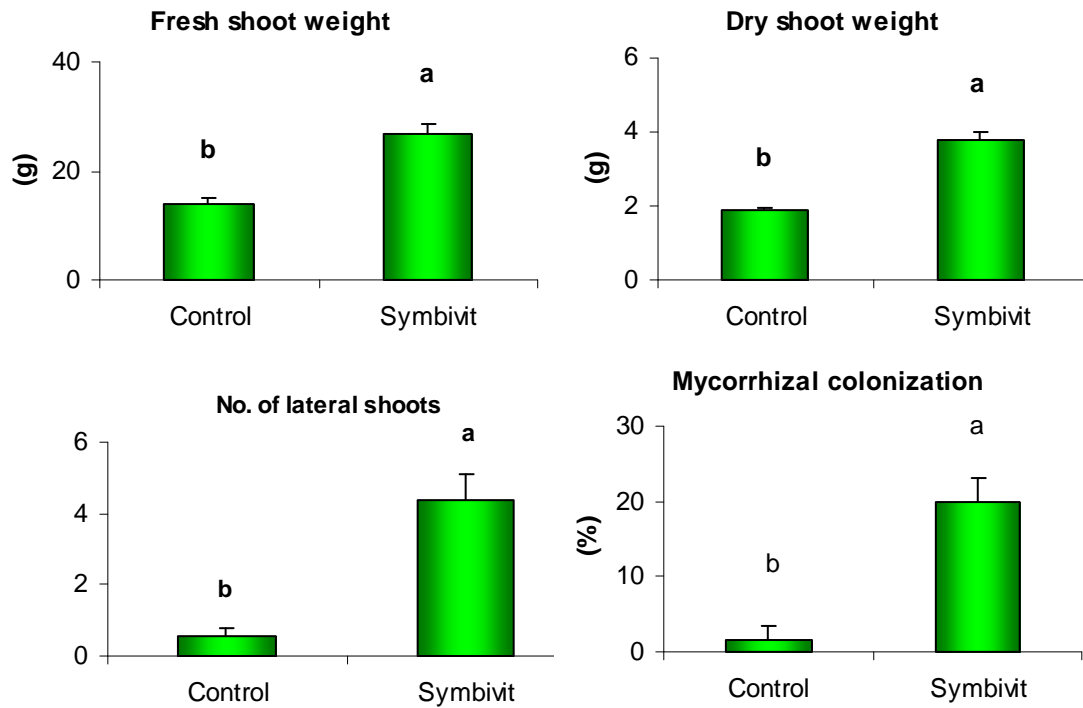
The pot experiment was conducted on *Bellis* sp. plants in the experimental greenhouse of Symbio-m Ltd. in 2007. The mycorrhizal product Symbivit[®] was mixed into the growing substrate (mixture of peat and zeolite in 4:1) before planting in a dose of 32g per 400 mL pot. The experiment involved two treatments: control, uninoculated plants and plants inoculated by Symbivit[®]. Each treatment consists of 10 daisy plants.

15 weeks after application the number of lateral shoots, fresh and dry shoot weight were determined for both treatments. The mycorrhizal colonization was evaluated for 4 plants per each treatment as a length of root colonized by symbiotic fungi (root maceration in 10% KOH for 45 min in 90°C, Trypan staining, microscopic evaluation). Data were statistically analyzed by ANOVA. The bars above columns in figures refer to standard error (SE). The columns marked by the same letters are not significantly different.

Results:

It was proved that Symbivit[®] - treated daisy plants exhibited significantly higher number of lateral shoots (8x), 2x higher fresh and dry shoot weight and manifold higher mycorrhizal colonization than the control, uninoculated daisy plants.

Testing efficacy of mycorrhizal product Symbivit[®] on vegetative growth of daisy plants



Comparison of the effects of mycorrhizal product Symbivit[®] on vegetative growth of daisy plants

