

Growth response of cucumber treated with arbuscular mycorrhizal product Symbivit®

Experiment conducted by Szent Istvan University, Gödöllő, Hungary, contact person: Assoc. Prof. Katalin Posta



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Summary:

The seedlings of cucumber were treated with arbuscular mycorrhizal product Symbivit® when planted in the field. Since week 5 the growth parameters were evaluated. The treated plants had significantly greater fresh root weight and the crop production was increased by 10% compared to control treatment.

Aim:

To evaluate the growth response of cucumber (*Cucumis sativus* L. var. Perez) treated with arbuscular mycorrhizal product Symbivit®

Material and methods:

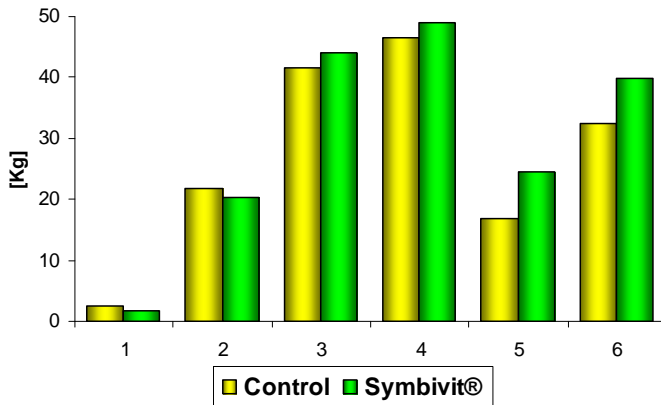
Field experiment was conducted on *Cucumis sativus* L. var. Perez plants in Experimental Horticultural Station in Gödöllő, Hungary in 2008. Symbivit® (arbuscular mycorrhizal product) was sprinkled into the planting hole in a dose of 15g per plant prior planting cucumber seedlings. Both treatments (control and inoculated one) consisted of 35 rep. Watering and nutrient supply was done by trickle irrigation. Since the fifth week of growth, the root biomass and root colonization were weekly evaluated based on one plant per treatment. The crop production was measured semi-weekly and is presented as cumulative weight of crop between two sampling dates.

Results:

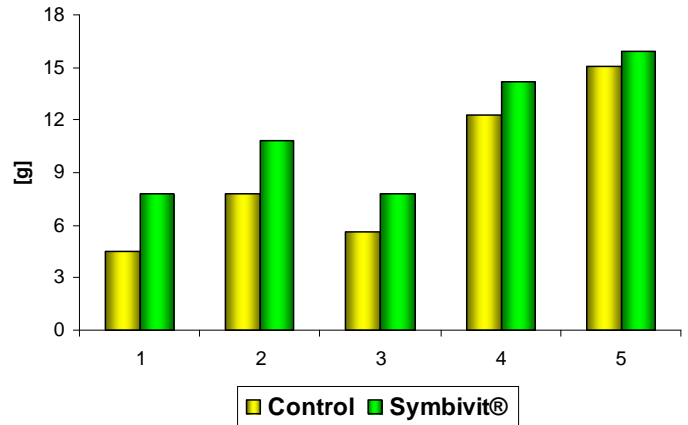
The plants of *Cucumis sativus* treated with Symbivit® had significantly greater development since the fifth week of growth. The increased development was visible in terms of fresh root weight. Finally, the total crop production was increased by 10% in comparison with untreated control plants.

Testing efficacy of mycorrhizal product Symbivit® on growth of *Cumumis sativus* plants

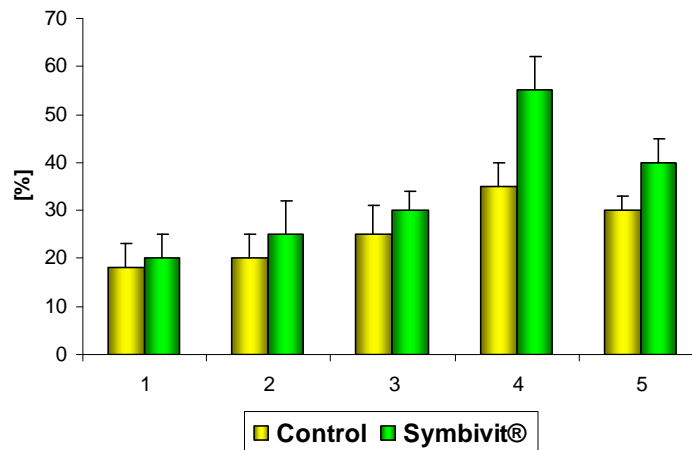
Crop production at different sampling dates



Fresh root weight



Mycorrhizal colonization



**Growth response of cucumber plants treated
with mycorrhizal product *Symbivit*[®]**

