

## Reference trials on application of Symbivit® in cultivation of fruit tree: peach, plum/apricot and cherry plum

Experiments conducted in collaboration with Research Institute for Fruitgrowing and Ornamentals (RIFO) in Budapest, Hungary, under supervision of Dr. Tamas Barna



<http://www.resinfru.hu>



**Address: Research Institute for Fruitgrowing and Ornamentals, Park u. 2,  
H – 1223 Budapest - Érd, Hungary**



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## Summary:

Micropropagated peach and plum/apricot rootstocks and cherry plum seedlings were treated with mycorrhizal product Symbivit® at the beginning and after acclimatization and during seedlings planting. Independently on cultivar and mode of application it was proved that Symbivit® - treated plants exhibited positive effects on vegetative growth of micropropagated rootstocks during and after acclimatization, and on total shoot weight of containerized seedlings as well.

## Purpose/Aims:

In order to test effects of the endomycorrhizal product Symbivit® of the company Symbio-m on fruit trees cultivation three types of greenhouse experiments were conducted: 1. at the beginning of acclimatization of *in vitro* rootstocks, 2. after the acclimatization of *in vitro* rootstocks, and 3. during container planting of seedlings. Size of *in vitro* plantlets was determined six weeks after application; in the case of containerized plantlets the shoot weight was evaluated at the end of growing season.

## Procedure/Methods:

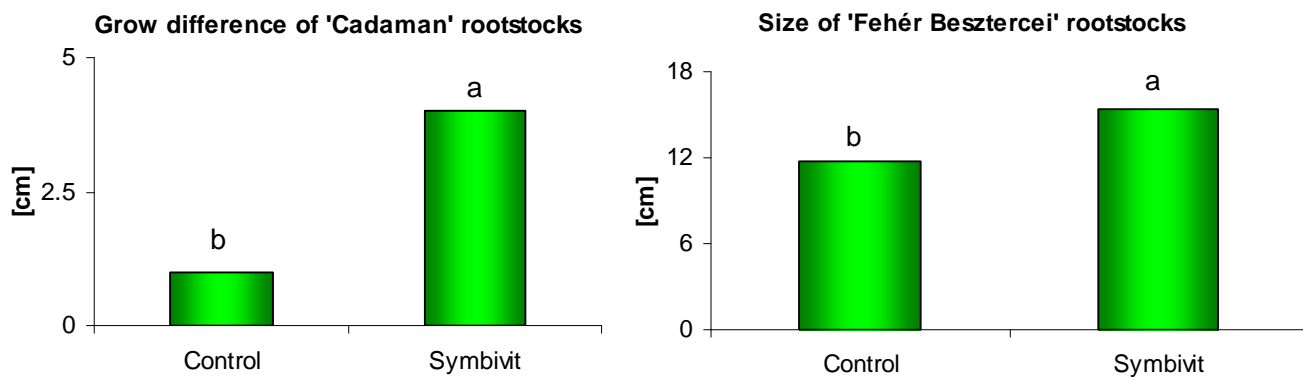
The greenhouse experiments were conducted on micropropagated peach rootstocks of 'Cadaman' cultivar and plum/apricot rootstocks of 'Fehér Besztercei' cultivar, and on cherry plum (*Prunus myrobalan*) seedlings in greenhouses of Research Institute for Fruitgrowing and Ornamentals in Budapest, Hungary during 2005 growing season. The mycorrhizal product Symbivit® was applied: 1. on 'Cadaman' rootstocks at the beginning of acclimatization by mixing into the growing substrate (mixture of turf, sand, perlite, zeolite and slowly releasing nutrients) in a dose of 1-2% of the product/volume of the substrate, 32 plants/plate in 3 repetitions; 2. on 'Fehér Besztercei' rootstocks after the acclimatization by dipping into the gel containing Symbivit® (1L of the product, 20g of the gel, 4L of water), 32 plants/plate in 3 repetitions; and 3. on cherry plum seedlings during planting into the containers by mixing 100 ml of the product/plant with the growing substrate, 10 plants/treatment in 5 repetitions.

Six weeks after application, the size of peach and plum/apricot rootstocks were determined, in the case of containerized plantlets of cherry plum the total shoot weight was evaluated at the end of growing season.

## Results:

Independently on cultivar and mode of application it was proved that Symbivit® - treated plants exhibited positive effects on vegetative growth of micropropagated rootstocks during and after acclimatization, and on total shoot weight of containerized seedlings as well.

### Testing of efficacy of mycorrhizal product Symbivit® on vegetative growth of *in vitro* rootstocks



### Testing of efficacy of mycorrhizal product Symbivit® on vegetative growth of containerized seedlings

