

Reference trials on application of Symbivit[®] in cultivation of strawberries planting stock

Experiments conducted by Research Institute of Pomology and Floriculture in Skierniewice, Poland



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Summary:

Strawberry plantlets of ‘Senga Sengana’ cultivar were treated with mycorrhizal product Symbivit® during planting into the rhizoboxes. It was proved that Symbivit® application improved the vegetative growth of roots and shoots of the treated plants and increased the P and K content in the rhizosphere soil.

Purpose/Aims:

In order to test the effect of the endomycorrhizal product Symbivit® of the company Symbio-m on the mineral nutrition of strawberry plants, their growth and yielding, an experiment was conducted in experimental greenhouses of Research Institute of Pomology and Floriculture in Skierniewice, Poland. Strawberry plants were treated during planting into the rhizoboxes.

Procedure/Methods:

The greenhouse experiment was conducted during the season 2005 on plants of the strawberry cultivar ‘Senga Sengana’ in a greenhouse of Research Institute of Pomology and Floriculture in Skierniewice, Poland. The plants were grown in rhizoboxes (2 plants per a rhizobox) filled with mineral soil. The experiment was set up in 5 replications (10 plants) per treatment. Inoculation of plant roots was done only once while they were being planted in the rhizoboxes. Control plants were fertilized conventionally with NPK.

After three months, fresh and dry weight of roots and shoots, the number of leaves, the volume of roots and the mineral composition of the rhizosphere soil were determined.

Results:

The experiment revealed stimulating properties of the mycorrhizal product Symbivit® on the vegetative growth of the shoots and roots of strawberry plants of the ‘Senga Sengana’ cultivar. It was proved that Symbivit® - treated plants exhibited greater number of leaves, 1.5x greater leaf biomass, greater fresh and dry weight of roots and root volume. Inoculation of strawberry plants with the mycorrhizal product increased the P and K content in the rhizosphere soil. The effect of mycorrhizal product Symbivit® on the fructification was not studied.

Strawberry plants of 'Senga Sengana' cultivar treated with mycorrhizal product Symbivit® in rhizobox experiment



Testing of efficacy of mycorrhizal product Symbivit® on vegetative growth of strawberry plants and mineral composition of rhizosphere soil

