

## Technical Specification Sheet – SYMBIVIT® TRIC

**Manufacturer:** Symbiom Ltd., Sazava 170, Czech Republic

*Type of material – Beneficial soil fungi for plants*

### Description of the product SYMBIVIT® TRIC

The product contains reproductive particles of five species of beneficial symbiotic Arbuscular Mycorrhizal Fungi, *Trichoderma harzianum*, with small amendment of bioadditive components, which support development of mycorrhizal symbiosis.

### Composition:

**(A) Bioactive particles (fragments of colonized roots, spores and mycelium fragments) of five mycorrhizal fungi naturally occurring in European soils:**

1. *Claroideoglomus etunicatum*
2. *Claroideoglomus claroideum*
3. *Rhizophagus irregularis*
4. *Funneliformis geosporus*
5. *Funneliformis mosseae*

#### Concentration:

minimum number of infective propagules: 200.000 per Kg, typical average number of infective propagules 325.000 per Kg (evaluated by Most Probable Number test)

**B) Bioactive particles (conidia) of *Trichoderma harzianum* naturally occurring in the soils**

**Concentration:** min.  $1 \times 10^7$  CFU/g

#### Inert carrier components:

1. Expanded clay, at 532 g per Kg (brown particles, fraction: 1-2.5mm)
2. Clinoptilolite clay (zeolite), at 414 g per Kg (green particles, fraction: up to 2.5mm)

### Method of production:

400 L bags are filled with clean soil-less substrate, which is then inoculated with the mycorrhizal fungi. Zea mays, *Tagetes* sp. and *Trifolium* sp. seeds are planted into the bags and left to grow in a greenhouse. After 5 months, the grown plants are cut at ground level and the upper parts are thrown away. The substrate with grown colonized roots is sieved to separate the roots from the substrate. The roots are dried, cut into small fragments (1-10 mm) and mixed back into the cultivation substrate. Bioadditive components are subsequently added into the final mix in the above listed amounts.

### Use and effect of the product:

Application of SYMBIVIT® when planting (as per manufacturer's directions) will give plants their best growth potential, sustainable and ecological nutrition, reduced mortality at transplanting, greater drought and salt tolerance, increased flowering and fruit yield and reduced transplant stress. A decreased vulnerability to root pathogens and to other stress environmental factors can be expected.

**(B) Bioadditive components:**

(Natural minerals, sea weed extracts, natural keratin etc.; bioadditive part represents 54g per Kg of product)

Keratin  
 Milled phosphates  
 Alginates (seaweed)  
 Patentkali  
 Dolomite

**Average mass of the product is 700-800 Kg/m<sup>3</sup>. We declare that the product does not contain genetically engineered material. The product is free of pathogens and soil.**

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## Application:

**DRY APPLICATION** – Apply 15g (one spoone) per L of root ball volume. Apply into the planting hole to cover its base (1-2cm layer) and plant immediately. For grown plants, make several 10 cm deep holes around the plant and apply SYMBIVIT® into each hole, close to the roots. Could be mixed with the substrate (e.g. for seed sowing) in a ratio 1.5:100.

**Dosage:** The product must come into direct contact with plant roots. It is impossible to overdose – higher dosage ensures better establishment of mycorrhiza.

Root ball size	Dose per plant	Plants treated
up to 1 L (e.g. pelargonium)	15 g (1 table spoon)	50 plants
1 to 3 L (e.g. large rose)	45 g (3 table spoons)	16 plants
3 to 5 L (e.g. thuja seedling)	75 g (5 table spoons)	10 plants
5 to 10 L (e.g. magnolia)	120 g (8 table spoons)	6 plants

## Plant suitability:

- majority of flowers (roses, geranium, petunias etc.), creeping plants, house pot plants, vegetables
- fruit trees, olive and palm trees
- most ornamental conifers including thuja, yew tree, juniper, cypress, Chamaecyparis, Taxodium, Araucaria, Ginkgo etc.
- some broad-leaved trees including maple, green ash, alder, rowan, dogwood
- suitable for establishing lawns, turfs and sporting greens
- suitable for applications in the garden, nursery etc.

## NOT SUITABLE FOR:

- orchids
- the Brassicaceae family (broccoli, turnip, cabbage, Brussels sprouts, mustard, cauliflower etc.)
- the Chenopodiaceae, Amaranthaceae, Caryophyllaceae, Cyperaceae, Juncaceae families

For conifers (pine, spruce, fir etc.) and some broad-leaved trees (oak, beech, birch etc.), use the product ECTOVIT®. For ericaceous plants (heather, azaleas, blueberries, rhododendrons etc.), use the product RHODOVIT®.

For a full list of plant compatibility, visit [www.symbiom.com](http://www.symbiom.com)

SYMBIVIT® can be combined with the natural fertilizer CONAVIT®.

**Storage and Shelf-life:** Store in a cool, dry place (less than 20°C, relative air humidity up to 60%). Under these conditions the product can be used for 2 years from production date.

**Packaging:** The product is supplied in 150 g PE bags.

**Health and safety information:** The product contains naturally occurring fungi and is partially biodegradable. It is not toxic or harmful to the environment. The product does not leave toxic residue in the soil. In case of contact with eyes, wash eyes thoroughly with clean water. If irritation persists, seek medical help. Do not ingest.

**Precautions:** It is essentials for a proper function of the product that it comes into direct contact with plant roots. Avoid direct contact of SYMBIVIT® with systemic fungicides during the first 3 weeks after application. The effect of SYMBIVIT® can be reduced by excessive use of chemical fertilizers, especially superphosphate.

Registered at Central Institute for Supervising and Testing in Agriculture, the Czech Republic (ÚKZÚZ, [www.ukzuz.cz](http://www.ukzuz.cz))

Decision of the supplementary substance registration: 3736

Product is approved for use in ORGANIC systems. Approved by Biokont CZ, s.r.o. (CZ-BIO-003).

Licence no.: 3006

**Manufacturer:** Symbiom Ltd., Sazava 170, 563 01 Lansroun, Czech Republic

**Biokont®**