

PELARGONIUM, GERANIUM OIL PLANT Pelargonium (GERANIACEAE)



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Uses

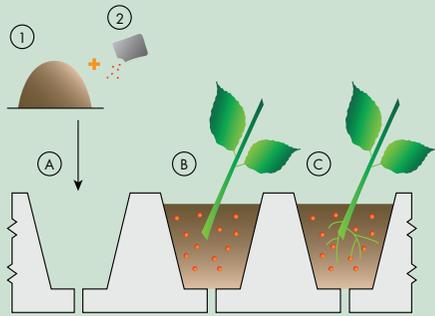
Pelargonium is grown for the essential oil (geranium oil) obtained from the leaves. The rose-scented oil is one of the most widely used fragrance materials and an essential component of most rose-scented perfumes and soaps. Its adaptability for tropical conditions and the relative uniformity of geranium oil from different origins are suitable for growing this crop in conditions e.g. in South-East Asia and South Africa.

Ecology & Planting

For optimum growth requires an average annual rainfall of 1.000 – 1.500 mm and an average daytime temperature of 20 – 25°C. Pelargonium is propagated vegetatively, mostly by stem cuttings. Some 20 – 25 cuttings can be taken from a vigorous plant. Direct planting is common (in moist soil), but nursery planting is also used. Cuttings should be planted immediately after preparation; to plant 1 ha 30.000 – 50.000 cuttings are needed. The economic life of a well-managed plantation can be 10 years. First harvest can be taken when the crop is 6 – 8 months old, after than 2 – 3 times per year.

Mycorrhiza & Bio-fertilizers

Introduction of inoculum can be done by dipping cuttings before planting into gel formulation of inocula or in the nursery by mixing dry inoculum formulation in the planting substrate. Expected effect of mycorrhiza and its combination with biofertilizers in the field is larger number of branches and more vigorous growth, it was shown that treated plants have about 15% more flowers and they flowering onset is earlier and flowers last longer. Total biomass of the plants in the field is expected to be 20% higher. Mycorrhiza was also reported to increase production of essential oils for numerous medicinal plants.



- Ⓐ Prepare a mix of ① substrate and 2 Symbivit® and fill in the pot.
- Ⓑ newly placed cutting
- Ⓒ the cutting takes advantage of Symbivit®

Application of Conavit within outplanting in the field.

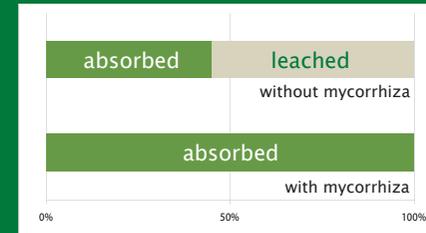


Geranium oil, also called citronella oil, is the most significant product.

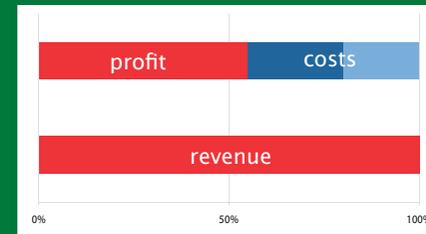


your current yield

potential yield with the use of mycorrhiza



potential efficiency of conventional fertilizers



potential profit and costs of bio-products

Make new progress in your essential oil business

Products store in a cool, dry place; can be used for 2 years from production date if stored properly. Contains occurring fungi and is not toxic or harmful to the environment. Does not contain genetically engineered organisms, does not leave toxic residue in the soil. Recommendation is to refrain from using systemic fungicides within 3 following mycorrhizal inoculations. Majority of conventional herbicides, insecticides and non systemic fungicides do not inhibit development of mycorrhiza. Excessive application of superphosphates can reduce mycorrhiza efficacy.

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Recommended products:

Symbivit® - is an inoculating product improving growth and yield of majority of plant species. It is based on endomycorrhizal (arbuscular) fungi.

Conavit® - is ecological, long term, slow release fertilizer composed 100% natural components. Its high calcium content predestines the fertilizer to be used particularly in acid soils.