

CONSIDERING THE EFFECT OF COCOPEAT CULTIVATION ON SOME OF GROWTH CHARACTERS OF *VIOLA ODORATA* FLOWER

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Introduction

The flower of *viola odorata* is one of the most important native medicinal herbs in Iran. The *viola odorata* and many treatment specifications of it have been recognized by the people from long time ago (3). Cocopeat is one of the coconut palm's products which are a perfect bed for cultivating the plants because of its good capacity to keep water, foodstuff and air porosity (1). The goal of this research is the study of effect of Cocopeat cultivation bed and to introduce a suitable bed for growing *viola odorata*.

Materials and Methods

This experience was done in completely randomized design (CRD) with 2 treatments and 3 repetitions including 9 flower vases. This experience was performed in research greenhouse of Islamic Azad University of Khorasgan (Isfahan). The cultivation substrate of treatments with voluminal ratios were included: Coco peat- manure- loam (25%+25%+50%) and the loam – manure (50%+50%). The statistical analysis of data was performed in LSD method and by SAS.

Results and Discussion

The results showed that the maximum numbers of leaves and maximum bush height related to the treatment Cocopeat + loam + manure. In general, the results show that the Cocopeat cultivation substrate can be introduced as a proper cultivation substrate for *viola odorata* herb and also as a substitution for other cultivation substrates according to physical and chemical characters of its tissue. In order to effect of different substrate the treatment in *lilium hybrids*, the result shown that the cocopeat substrate was better than mineral substrate in aspect of bush height and number of leaf rate (2).

Keywords: cocopeat, *viola odorata*, vegetative growth.

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