

## THE APPLICATION OF NEW TECHNOLOGIES FOR THE DEVELOPMENT OF MEDICINAL PLANTS *ROSA DAMASCENA* MILL IN IRAN

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The New technologies in Agriculture and civilization, put people into a new realm of life. Earth lifetime, three agricultural revolution occurred in any of them have an important role in technology, water and climate. Agriculture offered a very different set of opportunities and gathering, and these had far reaching consequences. Today agriculture, especially the cultivation and processing of medicinal herbs domain companies with mass production of raw materials and products are diverse, which have the characteristics of a modern industrial manufacturing line. Rose (*Rosa damascena* Mill.) is the king of flowers is classified in old garden roses . The origin of Damask rose is in Iran and the Middle East region and it is the national flower of Iran. The major use of Damask rose is distillation of petals in order to extract its essential oil and producing rose water. The fragrance of the rose flower captured by extraction is one of the most valuable odors and fragrances produced. The most common aroma concentrates of rose are rose oil and rose water, derived from distillation. This type of rose is mainly grown in temperate climates, usually at an altitude between 300- 1800 m. Also rose oil is a valuable natural drug agent possessing bacte- riostatic, antihistological, gall curative, antispasmodic and relaxing etc. Avicenna showed that rose oil has uses in aroma-therapy for treatment of cardiac diseases. There are different kinds of traditional and modern devices for the extraction of volatile oil from *Rosa damascene*. Number of reports has appeared on the chemical evaluation of rose oil. The objective of the present study is focused on the evaluation of distillation of *Rosa damascene* and also a comparative study of the components in whole flower.



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