A

MAJOR PROJECT REPORT

ON

EXTRACTION OF ESSENTIAL OIL FROM NIGHT JASMINE AND WOOD APPLE LEAVES

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ABSTRACT

Extraction of essential oil from Night Jasmine (*Nyctanthus arbortristis*) commonly known as parijata in Hindi and from wood apple leaves commonly known as Bael leaves using conventional methods like Solvent extraction, Steam distillation and by Soxhlet apparatus is done. Oil extracted from aromatic plant like night jasmine is known for its fragrance and is widely used in cosmetics and traditional medicines. And also, Bael leaves has many medicinal properties. Solvent extraction, using organic solvents like n-hexane was used for the extraction of oil and later solvent was evaporated off and recovered oil is separated. Steam distillation is the cleanest and most economical way of extraction of oil using water as steam. And Soxhlet apparatus using n-hexane as a solvent, was also carried out to compare and yield and efficiency in recovering the essential oil. The percentage of extraction of essential oil in solvent extraction method was high for night jasmine and low in steam distillation since it is heat sensitive plant. Although it has high yield in solvent extraction method, some traces of solvent exist in extracted oil. And Soxhlet apparatus extracted oil is waxy in nature.