

Phytochemical analysis of *Rauvolfia tetraphylla* L. from Marathwada region of Maharashtra

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Abstract

Rauvolfia tetraphylla L. is important medicinal plant. It is used in various traditional as well as modern medicine. *Rauvolfia tetraphylla* is rich source of various phytochemical like alkaloids, phenols, saponins flavonoids and tannin. whole plant is medicinally important but root is essential source of phytochemical. now day climate change and overexploitation of plant for medicine. This plant is become endangered. It is alternative source of reserpene. Plant root is beneficial source for extraction of phytochemical.

Key Word: Phytochemical, *Rauvolfia tetraphylla*.

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Figure 1: IG: *Rauvolfia tetraphylla* L.

INTRODUCTION

Rauvolfia tetraphylla L. is plant of apocynaceae family Its genus is *Rauvolfia* this genus have number of species. *tetraphylla* is important species¹. It contains various type of phytochemical which are medicinal valuable. *Rauvolfia tetraphylla* contain alkaloid and it called as *rauvoltetraphylla* A-E It has tremendous importance in various medicine. It show anticancer antihypertension, and sedative activity. It is used in folklore and traditional medicine²

MATERIAL AND METHOD

The collection of plant: Plants *Rauvolfia tetraphylla* L. collected from garden of Vasant Rao Naik Marathwada vidyapeeth Parbhani and Botanical garden of Science College Nanded and third plant collected from Sangam Nursery latur

Extract preparation from *Rauvolfia tetraphylla* L. : soxhlet extractor: The dried root were crushed into fine particles (powder) using a mixer. the powder plant material (250gm) was packed in a soxhlet. Extract obtained was passed through the whatman filter paper no 1 and the methanol was evaporated at 40°C with help of heating mantle and dried in a desiccator.³

Preparation of aqueous extract of plant *Rauvolfia tetraphylla* plant L: plant leaves, stem and root collected from healthy plant and all plant material washed under tap water and rinsed with distilled water. The washed