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Pharmacognostic and physicochemical studies of the roots of *Stereospermum suaveolens*

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The aim of the present study is to evaluate pharmacognostically parameters of roots of *Stereospermum suaveolens* which includes macro morphology, microscopically characters, physicochemical constants and phytochemical screening. Roots of *Stereospermum suaveolens* were collected from Tirumala hills, Chittoor district, A.P and authenticated by the botanist Dr. Madhava Chetty, Herbarium Keeper, Department of Botany, Sri Venkateswara University, Tirupati, India and a specimen has been deposited in Department of Botany, Sri Venkateswara University, Tirupati, India. Roots were washed thoroughly, made into small pieces, shade dried and powdered in a Wiley mill. The fresh root was used for the study of macromorphological and microscopical characters; whereas the dried root powder was used for determination of powder microscopy, physicochemical characterization and phytochemical screening. The dried plant material was subjected for determination of physicochemical parameters such as total ash value, acid insoluble ash, water soluble ash, alcohol soluble extractive, water soluble extractive value, pH, moisture content, foreign matter present, foaming index, etc. Fluorescent analysis and preliminary phytochemical studies had been carried out. Physicochemical parameters had shown characteristic values such as total ash value of 4.5%, acid insoluble ash of 1%, moisture content 16.5% and alcohol soluble extractive 8.8%. Preliminary phytochemical studies showed the presence of flavonoids and saponins. This information will assist in standardization for quality, purity and sample identification and further it will be used for pharmacological and therapeutical evaluation of the species.

Biography

K Sai Sruthi has completed her BPharm from C.L. Baid Metha College of Pharmacy, Chennai and MPharm from Vishwabharathi College of Pharmaceutical Sciences affiliated to JNTUK. She is currently pursuing her PhD from Sri Padmavathi Mahila Visva Vidyayalayam as a full time Research Scholar. She has attended one international and five national conferences.

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