Phytochemical Investigation and Evaluation of Antimicrobial Activity of Aegle Marmelos Linn Thorns

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Abstract: Aegle marmelos, is a Traditional medicinal plant commonly known as ‘Bael’, with Ethnomedicinal application and has a great mythological significance for Hindus Traditional system of medicines like Ayurveda, Siddha and Unani have been highlighted the use of A. marmelos parts (bark, leaves, fruits, flowers etc.) for the treatments of various diseases. Present study aims at Phytochemical and biological evaluation of thorn extract of Aegle marmelos Linn. Standardization of powder is done by determination of ash value, extractive value and moisture content of Aegle marmelos. Pharmacognostic study was carried out in which macroscopic and microscopic characteristics were studied. For characterization plant parts used are Thorns of Aegle marmelos. The extraction was done by successive method in different solvents ranging from Non polar to polar solvents. The percentage yield of thorn is found to be in the range 0.4 %, 2.4933 %, 1.6 %, 0.2 %, 1.57 and 5.13% respectively. Phytochemical screening conclude that the given plant material shows the presence of alkaloid, glycoside, flavonoids, tannin, phenolic, carbohydrates, proteins and amino acids. Transverse section of Aegle marmelos L. plant Thorn shows the presence of cork cambium, cortex, stone cells, starch grains, parenchymatous cells and Trichomes. The antimicrobial activity was checked using different test organisms.

Keywords: Ethnomedicinal, Aegle marmelos, mythological, Traditional

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