

# 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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