

PHYTOCHEMICAL SCREENING AND ASSESSMENT OF SECONDARY METABOLITES IN DIFFERENT PLANT PARTS OF *SOLANUM XANTHOCARPUM* : A DASHMOOL SPECIES

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ABSTRACT: Secondary metabolites provide defense to plants against pests and pathogens and also form the backbone of modern system of medicines. In the present investigation, phytochemical screening of leaves, fruits, stems and roots of *Solanum xanthocarpum* and quantification of secondary metabolites were carried out. The results showed the presence of alkaloids - 3.62%, 5.23%, 2.4% and 2.43%, cardiac glycosides - 0.71%, 1.34%, 1.3% and 1.16%, flavonoids – 0.34%, 0.38%, 0.08% and 0.02%, phenols - 2.27%, 2.45%, 0.15% and 0.22% in leaves, fruits, stems and roots respectively. Saponin content was found in leaves (4.4%) and fruits (2.69%) only.

Key words: *Solanum xanthocarpum, phytochemical screening, secondary metabolites, leaves, fruits, stem, roots*

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