ISSN: 2278-1862



## Journal of Applicable Chemistry

2017, 6 (2): 219-226 (International Peer Reviewed Journal)



## Phytochemical Screening and antioxidant activity of Glochidion ellipticum

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Accepted on 8<sup>th</sup> February 2017, Published online on 27<sup>th</sup> March 2017

## **ABSTRACT**

Glochidion ellipticum was investigated for its phytochemical content and antioxidant activity. For this purpose, leaves of the plant were selected and phytochemicals were extracted using different solvents viz. methanol, ethanol, aqueous and petroleum ether. The total Phenolic and Flavonoid content was found to be highest in ethanolic extract having 162.2 µg/ml equiv. Ferulic Acid and 135.2µg mL<sup>-1</sup> equivalent quercetin respectively. The Antioxidant activity of the different extracts was evaluated using DPPH radical scavenging, ABTS radical scavenging, ferric reducing antioxidant power, (FRAP) and Reducing power. Methanolic extract showed the maximum antioxidant activity in all the assays.

## GRAPHICAL ABSTRACT Ethanol Methanol Solvent Extraction Water Pet Ether Glochidion ellipticum 1. Total Phenolic and Flavonoid contents 2. Antioxidant Activity: Methanolic extract of the Glochidion a. DPPH method ellipticum showed maximum b. ABTS method antioxidant activity in all the assays. c. Ferric reducing ability of plasma [FRAP] d. Reducing Power

Keywords: Antioxidants, Total Phenolic Content, Phytochemicals.