

**SHORT COMMUNICATION**

**Antioxidant potentiality of *Artemisia absinthium* from Handwara region of Jammu and Kashmir**

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**ABSTRACT**

*Artemisia absinthium*, commonly known as wormwood, (Tyethwan) is well known medicinal plant for its extensive used in traditional ayurvedic medicine for treating hepatitis, wound healing and jaundice. The aim of this study was to conduct antioxidant potentiality of *Artemisia absinthium* from Handwara region of J&K. Phytochemical analysis demonstrated high content of phenolic (4.9925 mg GAE/g) and flavonoidal compounds (45.375 mg QE/g). The DPPH assay results depicted an IC<sub>50</sub> value of 23.9742 µg/mL indicating significant free radical scavenging ability, comparable to standard antioxidants such as ascorbic acid. This study validates the traditional medicinal uses of *A. absinthium* and establishes its potential as a natural source of antioxidants. These findings suggest that *A. absinthium* could be further explored for therapeutic applications, contributing to the development of natural antioxidant formulations for health and well-being.

**Keywords:** Antioxidants, *Artemisia absinthium*, phytochemical analysis