

**ANTIBACTERIAL ACTIVITY AND ANTIOXIDANT ACTIVITY OF
CARICA PAPAYA ON SOME ENTERIC BACTERIAL ISOLATES
OF PUBLIC HEALTH IMPORTANCE**

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ABSTRACT

In the present study, ethanol extract and aqueous extract of Carica papaya in different concentration were evaluated for the antimicrobial properties against Enteric pathogenic organisms such as Escherichia coli, Shigella sp., Klebsiella sp., and Pseudomonas sp., by using agar well diffusion method. The extracts were screened for the phytochemical constituents using standard procedure. The anti-oxidant activity of ethanol and aqueous extract fractions from the leaf of papaya were evaluated and ethanol extract showed the strong DPPH activity, Nitric oxide radical scavenging assay, Ferric Reducing/Antioxidant Power (FRAP) Assay and Hydrogen Peroxide Scavenging Activity (H₂O₂). The leaves of papaya and these compounds might be used as natural antioxidants. Antibacterial activity against the test isolates was an indication of the possibility of sourcing alternative antibiotic substances in these plants for the production of newer antibacterial agents.

KEYWORDS: Antibacterial Activities, Carica Papaya, Antioxidant & Enteric Bacteria

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