

**SCREENING OF ANTIBACTERIAL ACTIVITY OF THE ESSENTIAL OIL
FROM SEED OF *ARTOCARPUS HETEROPHYLLUS***

SHIPRA JHA & A K SRIVASTAVA

Amity Institute of Biotechnology, Amity University, Noida, Ghaziabad, U.P., India

ABSTRACT

The objective of this work is to investigate the antibacterial activity of *Artocarpus heterophyllus* plant. The antibacterial activity of essential oil obtained from plant was examined. To evaluate the antibacterial activities of these extracts; their in vitro antibacterial activities were determined by disk diffusion testing and minimum inhibitory concentration (MIC). *Escherichia coli*, *Pseudomonas aeruginosa* and *Staphylococcus aureus* were used as test bacterial strains.

The analysis of seed part resulted in representing 93.21% of the total oil and the yield were 2.34%. The bacterial strains tested were found to be sensitive to essential oils studied and showed a very effective bactericidal activity with minimum inhibitory concentration (MIC) ranging from 1.50 to 5.20 mg/mL.

KEYWORDS: *Artocarpus heterophyllus*, Essential oil, Antibacterial activity, Gram- positive, Gram-negative.