



ANTIMICROBIAL ACTIVITY AND MINIMUM INHIBITORY  
CONCENTRATION OF EHRETIA LAEVIS LEAVES EXTRACTS  
AGAINST DIFFERENT MICROORGANISMS

Kshama Murarkar<sup>1\*</sup> Ph.D, Diksha Bande<sup>2</sup> and Anita Chandak<sup>3</sup> Ph.D

<sup>1,3</sup> Assistant Professor Kamla Nehru Mahavidyalaya.

Article Received on  
22 April 2018,

Revised on 13 May 2018,

Accepted on 03 June 2018,

DOI: 10.20959/wjpr201812-12608

\*Corresponding Author

Kshama Murarkar Ph.D

Assistant Professor Kamla

Nehru Mahavidyalaya.

ABSTRACT

*Ehretia laevis* is a medicinal plants belonging to the Boraginaceous or Borage family. The present study aimed to evaluating the in vitro antimicrobial activity of acetone and isopropanol extracts of *Ehretia laevis* plants dried leaves against *Escherichia coli*, *Staphylococcus aureus* and *Pseudomonas aeruginosa*. The extract was effective against *Escherichia coli* and *Staphylococcus aureus*. The minimum inhibitory concentration (MIC) of the all the extracts were found out by broth dilution method by taking extracts volume 1 ml and 5 ml respectively. The minimum inhibitory concentration of isopropanol

extract was 1 ml and 2.5 ml, and for acetone extract was 2.5 ml and 1.25 ml respectively for *S. aureus* and *E. coli*.

**KEYWORDS:** *Ehretia laevis*, *Escherichia coli*, *Staphylococcus aureus* and *Pseudomonas aeruginosa*, minimum inhibitory concentration.

INTRODUCTION

Many medicinal plants are already explored for medicinal purpose, but more and greater still remains, which has great medicinal potential for social benefit. *Ehretia laevis* is a small tree belonging to the Boraginaceous or Borage family.

It is native tree of Asia, and found in China, Bhutan, India, Pakistan, Laos, Burma, and Vietnam. This plant is mainly used for wound healing, joint pain and minor fractures by local people with promising results and commonly known as khandu chakka in Maharashtra. The plants of this genus have significant medicinal importance and find uses in traditional medicine as a remedy for the treatment of diarrhea, cough, cachexia, syphilis, toothache,