

Antibacterial Effect of *Lantana Camara* L. Fruit Extraction with Ethanol

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ABSTRACT

Background: *Lantana camara* L. is a tropical plant that is used for a variety of purposes, including herbal medicine and, in some areas, as firewood and mulch. It is also used to treat asthma, measles, and various types of cancer.

Method and results: The ethanoic extract of *Lantana camara* fruits were incubated for 24 hours with strains of *Staphylococcus aureus*, *Bacillus subtilis*, *Pseudomonas aeruginosa*, *E. coli*, *Proteus mirabilis* and *Shigella* sp.) The extract showed the highest inhibition zone (39 mm) against *Bacillus subtilis*, it also showed activity against *Staphylococcus aureus* isolate resistant to the antibiotics (AK, AX, A/S and CIP), the activity represented by inhibition zone equal to 17 mm. The second isolate of *Staphylococcus aureus* showed sensitivity to the extract represented by inhibition zone (11mm). One isolate of *E. coli* showed sensitivity to the extract while was resistant to AK, AX and A/S.

Conclusion: Because the ethanolic extract of *Lantana camara* fruits shown antibacterial action, it could be developed into a more effective traditional medicine to offer an alternative to the problem of antibiotic resistance.

Key words: *Lantana camara*, antibacterial activity, Ethanol extract

Bahrain Med Bull 2025; 47 (1): 2704-2706

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