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RESEARCH ARTICLE

In vitro evaluation of antibacterial property of *Jatropha curcas* L. against different pathogens

■ SEEMA DWIVEDI

SUMMARY

The various plant parts (root, stem, leaf) of *Jatropha curcas* were dried and powdered, they were soaked in different solvents *i.e.* water, 70 per cent ethanol, 80 per cent methanol, 100 per cent acetone, 100 per cent hexane, 100 per cent petroleum ether, chloroform and 100 per cent ethylacetate so that secondary metabolites may get dissolved. Screening of these extracts for antibacterial property was performed by using antibacterial susceptibility assay by agar well diffusion method also called cup plate method to compare their effectiveness against various pathogens. In case of leaf extract maximum zone of inhibition was observed against *E.coli* (methanol extract). The antibiogram analysis of root extract gave the maximum zone of inhibition for *E.coli* (ethanol extract). The antibiogram analysis of stem extract gave the maximum zone of inhibition for *E.coli* (cold water extract).

Key Words : *Jatropha curcas*, Secondary metabolites, Antibacterial property, Antibiogram

How to cite this article : Dwivedi, Seema (2016). *In vitro* evaluation of antibacterial property of *Jatropha curcas* L. against different pathogens. *Internat. J. Plant Sci.*, **11** (1): 115-121.

Article chronicle : Received : 19.11.2015; Revised : 10.12.2015; Accepted : 25.12.2015

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