

Evaluation of Antimicrobial Activity of N-Hexane Extract of Different Parts of Pumpkin (Seed, Leaves and Pulp)

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Abstract

The present study deals with the antimicrobial activity of different extracts of pumpkin (*Cucurbita pepo L.*) (Seed, Leaves and pulp) against seven microorganisms: two Gram-positive bacteria, i.e. *Staphylococcus aureus*, *Bacillus cereus*; three Gram-negative bacteria, i.e. *Pseudomonas aeruginosa*, *Escherichia coli*, *Proteus mirabilis* and two yeasts, i.e. *Candida albicans* & *C. parapsilosis*. Results revealed that all extracts (Seed, Leaves and pulp) were very effective against *P. aeruginosa* while some extracts showed no inhibition against *S. aureus* at all tested concentration (20, 40 & 80 μ g/ml). The maximum inhibition zone at 80 μ g/ml concentration of n-hexane pulp extract was 39 ± 0.1 mm against *P. aeruginosa*. The minimum concentration (MIC) for n-hexane pulp extract was 1.65 μ g/ml for *P. aeruginosa*, leading to a conclusion that the n-hexane pulp extract of pumpkin was found to be the most potent. Thus it can be concluded that n- hexane pulp extract of *Cucurbita pepo L.* was more potent as compared n- hexane seed and leaves extract of *Cucurbita pepo L.*

Speaker Publications:

1. Mr. Harsh Chunara(2019) Evaluation of antimicrobial activity of N-Hexane extract of different parts of Pumpkin(Seed, Leaves and Pulp).J Pharm Res,2019;8(3):72-75



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Biography:

Mr. Harsh Chunara holds a superlative scholastic in Pharmacy discipline at master level from renowned institutes of Gujarat, India. He incepted his career by rendering public health services. Being robust research he switched to academics for reignite the scientists within everyone. His core skills includes find out various antimicrobial activities of different microbes in plants and fruits and he has great skill to formulate different novel pharmaceutical formulations. He has played a vital role in endeavoring career of many young minds in very short span. He also attended few international and national conferences. He has been serving as assistant professor at reputed pharmacy institute in Gujarat Technological University.