



## Study of antifungal potential of some actinomycetes isolated from soil

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Received : November 2012  
Accepted : March 2013  
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**Abstract :** *The present investigation was aimed to study the antifungal activities of actinomycetes, isolated locally from soil samples collected from five different regions of Patna. On the basis of powdery texture of the colonies having musty smell and gram positive filamentous micro morphology, twenty isolates presumed to be actinomycetes strains were selected. Among these, five isolates, possessing antifungal potential and designated as 2,3,5,11, and 16; were selected on the basis of primary screening by cross plug method against*

*Penicillium sp., Aspergillus niger, Curvularia sp., Coccidioides sp., Aspergillus flavus, and Candida albicans obtained from the Department of Industrial Microbiology of Patna Women's College. The antifungal activities of the selected actinomycetes strains were assayed by the Agar well diffusion method and the zone of inhibition were measured in mm. The results revealed that the zone of inhibition ( in diameter) was maximum by strain 2 against Aspergillus niger (26 mm), followed by strain 3 against Coccidioides sp. (24 mm), strain 5 against Curvularia sp. (23 mm), strain 11 against Curvularia sp. (18 mm) and strain 16 against Penicillium sp. (21 mm), respectively.*

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**Key words:** *actinomycetes strains, antifungal activity, fungal strains.*