



ChemTech

## International Journal of ChemTech Research

CODEN(USA): IJCRGG, ISSN: 0974-4290,

ISSN(Online):2455-9555

Vol.10 No.4, pp430-435,2017

### In Vitro Antimicrobial Potential of *Aspergillusniger* (MTCC-961)

Kalyani.P<sup>1</sup>, Hemalatha.K.P.J<sup>\*1,2</sup>

<sup>1</sup>Department of Microbiology, Andhra University, Visakhapatnam, India

<sup>2</sup>AdvancedAnalytical laboratory, Andhra University, Visakhapatnam, India

**Abstract:** In vitro antibacterial and antifungal activity of fungal extract at different concentrations were screened against four gram positive bacteria, *Bacillus coagulans*, *Staphylococcus aureus*, *Bacillus licheniformis*, *Corynebacterium glutamicum*, four gram negative bacteria, *Escherichia coli*, *Pseudomonas fluorescense*, *Klebsiella pneumoniae*, *Sphingomonas paucimobilis*, and three fungal species *Aspergillusniger*, *Aspergillus flavus*, *Aspergillus fumigatus* by cup plate method. The extract were found to inhibit the growth of all the bacteria and fungal organisms test. The antimicrobial activity of fungal extract were comparable with the standard antibacterial agent, gentamycine and chloramphenicol as standard antifungal agent and were found to be active against all the organisms tested.

**Key words:** *Aspergillusniger*, Fungal extract, Antibacterial activity, Antifungal activity.

Kalyani.P *et al*/International Journal of ChemTech Research, 2017,10(4): 430-435.

\*\*\*\*\*