



Antimicrobial Analysis of Leaf Extracts of *Withania Somnifera*

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ABSTRACT: In the present work an attempt has been made to assess the *in vitro* antimicrobial activity of the leaves extracts of *Withania somnifera*, commonly known as *ashwagandha* against various micro-organisms: *Staphylococcus aureus*, *Escherichia coli*, *Lactobacillus acidophilus*, *Lactobacillus plantarum*, *Rhizopus oryzae*, *Aspergillus niger* and *Mucor spp.* Three types of extracts were prepared in different solvents: aqueous extract, methanolic extract and hexanolic extract. Antimicrobial screening of these extracts was done by using disc diffusion method. The selected microorganisms were also tested against commercially available antibiotics. All extracts used in this study were found effective against all the test micro-organisms. But amongst all the extracts used, hexanolic extract was found highest effective against all the test micro-organisms. © 2014 iGlobal Research and Publishing Foundation. All rights reserved.

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