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In-vitro antibacterial study of Withania somnifera root extracts on Human Pathogenic Bacteria

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ABSTRACT

The current work is designed to study the possible antibacterial effect of plant extracts against some known bacterias . Studies on the antibacterial activity of root extracts of Withania somnifera (L.) was assessed with zone of inhibition studies and minimum inhibitory concentration. The bacteria used includes Streptococcus mutans, Streptococcus pyrogens, Salmonella typhimurium and Vibrio cholerae. This extract shows antibacterial activity against these experimental strains. Inhibition zones are revealed by methanol extract which are reasonably more than the ethanol extract. For methanol extract Vibrio cholerae exhibits the least inhibition zone (31.12 ±0.11 mm), where as Streptococcus mutans shows the highest inhibition zone (35.33±0.49 mm). Likewise, the ethanol extract, Streptococcus mutans exhibits the highest inhibition zone (33.33±1.04 mm) and Vibrio cholerae exhibits the least inhibition zone (29.21±0.52 mm). the most susceptible bacteria strain was Salmonella typhimurium for both ethanol and methanol extract, while Streptococcus mutans was also one of the most susceptible Gram-positive bacteria. This study can open up a new outlook in research of medicines.

Keyword: Withania somnifera, antibacterial, agar cup plate

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