ANTIBACTERIAL ACTIVITY OF HELICTERES ISORA FRACTIONS

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Abstract: The aim of the present study was to evaluate the antibacterial activity of Helicteres isora extracts. We have tested different concentrations of three Ethanol, aqueous and hydroethanol fractions of H. isora root on selected pathogenic gram positive (Staphylococcus aureus, Bacillus subtilis, Enterococcus faecalis and Bacillus cereus) and gram negative bacteria (Pseudomonas aerogenosa, Proteus mirabilis, Salmonella typhie, Klebsiella pneumonia, Proteus vulgaris and Escherichia coli) with the well diffusion method in agar. All the three extracts exhibited antibacterial activity against seven strains of pathogenic bacteria. Hydroethanol extract showed best antibacterial activity as compared to both other extracts. Ethanol extract showed good antibacterial activity against K. pneumonia in comparison to other extracts. However aqueous extract showed minimum antibacterial activity against all the pathogens. This finding showed the good antimicrobial activity of H. isora, so it forms the basis for further antibacterial drug isolation from this medicinal plant.

Keywords: Helicteres isora, Antibacterial, Hydroethanol, Medicinal plant

REFERENCES


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