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Anti-tubercular Evaluation of *Balanitesroxburghiana*Linn.Fruit Extracts Against*Mycobacterium tuberculosis* H37Rv Strain

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Abstract: The present investigation is to observe the antitubercular activity of different solvent extracts (n-hexane, dichloromethane and methanol) of *Balanitesroxburghiana* fruitagainst *Mycobacterium tuberculosis*H37Rv strain.Theantitubercularactivityis carried outusingmicroplatealamar blue assay (MABA) at concentrations of 0.8 µg/ml to 100 µg/ml.The result reveals thatanti-tubercular activityof *B. roxburghiana*n-hexane extract has shown sensitivity at 25µg/ml concentration when compared with the standard pyrazinamide (3.125µg/ml). The other samples viz dichloromethane and methanol extracts have shown less sensitivity compared to n-hexane extract. The anti-tubercular activity might be due to the phytochemicals present in the extracts of *B. roxburghiana*which inhibit the cell wall synthesis or the enzyme responsible for synthesis of cell wall of *M. tuberculosis.*

Keywords:*Mycobacterium tuberculosis*, *Balanitesroxburghiana*, Antitubercular, Pyrazinamide, MABA, H37Rv.

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