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Der Pharmacia Lettre

Abstract

[Screening of Saraca indica \(linn\) medicinal plant for antidiabetic](#)

and antioxidant activity

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The objectives of the present study are to evaluate the anti-diabetic and anti-oxidant activities of saraca indica. Standard methods were adopted for pharmacological evaluation. PTP1-B assay and DPPH assay were used to evaluate anti diabetic and anti oxidant activities respectively. Rat liver homogenate was used as a source of protein tyrosine phosphatase 1B. Sodium orthovanadate was taken as standard for this enzyme assay. DPPH method used to determine anti oxidant activity of leaves extract of saraca indica. Methanol, chloroform extracts possess potent percentage inhibition of protein tyrosine phosphatase enzyme and the highest radical scavenging activity was observed in the methanolic extract. The present study has demonstrated the anti diabetic and anti oxidant potential of the leaves extracts of saraca indica. Hence the present study had verified the traditional use of saraca indica in diabetes and free radical formation in body. As the phytochemical screening has shown the presence of flavanoids and glycosides, the potent activity may be attributed to the presence of these phytoconstituents.

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