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In Vitro Anti-Diabetic Evaluation and Formulation of Oral Suspension of *Ananas comosus* Leaf Extract

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ABSTRACT

To know the therapeutic effect of certain traditional medicines, the present study was aimed to evaluate the phytochemical screening and in-vitro antidiabetic activity of ethanolic extract of *Ananas comosus* leaf by alpha amylase inhibition assay, at different concentrations (10,40,60,80,100µg/ml). The extract was also used for formulating oral suspension. The results indicated the presence of various phytochemicals and also demonstrated significant dose-dependent inhibitory activity of alpha amylase assay. The formulated oral suspension exhibited acceptable evaluation results.

Key words: *Ananas comosus* leaf, alpha amylase inhibition assay, oral suspension, dose-dependent inhibitory activity.

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