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EVALUATION USING *IN-VITRO* ASSAYS FOR GLUCOSE DIFFUSION AND KINETICS OF AMYLOLYSIS OF *LEEA MACROPHYLLA* STANDARDIZED EXTRACTS

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ABSTRACT

The standardized aqueous and methanol extracts of *Leea macrophylla* were studied for their effects on assay of diffusion glucose and for kinetics of amylolysis using *in vitro* models.

The results verified the antidiabetic potential of the standardized aqueous and methanol extract of *Leea macrophylla*.

Keywords: Leea macrophylla; glucose diffusion; amylolysis kinetics

INTRODUCTION

Leea macrophylla (Roxb.), of Leeaceae family, an herbaceous shrub with big sized leaf similar to a elephant ear. Ethnobotanical survey shows some important therapeutic uses in cancer, dysentery, body-

ache, and sexual disability [1]. It is traditionally used for nephrolithiasis, rheumatism, arthritis, pain, tonsillitis, tetanus, snake bites, sore and blood effusion [2, 3]. Leaf juice is used for local anti-

