IN VITRO AND IN VIVO STUDY ON TINOSPORA CORDIFOLIA EXTRACT AS AN ANTIDIABETIC AGENT IN RAT

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ABSTRACT – Clinical trials have shown that some plants are useful as antidiabetic agents. One such plant is Tinospora cordifolia. Oral administration of the organic extract of T. cordifolia roots for 6 weeks resulted in a significant reduction in blood and urine glucose in alloxan diabetic rats. Tinospora cordifolia extract interferes with cellular metabolic oxidative mechanisms. In all diabetic patients, treatment should aim to lower blood glucose to near normal level. The present investigation fulfills this statement by producing a significant fall in blood glucose levels in organic extract administered STZ diabetic rats.

Keywords: Tinospora cordifolia, antidiabetic agent, rat.