

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

**Archana Tomar, Ayodhya Singh, Gaurav Thakur\*\*, A. K. Agarwal\* and V. K. Singh\*\***

Department of Chemistry, M. M. H. College, Ghaziabad - 201 009, India.

\*Department of Chemistry, M. S. College, Saharanpur - 247 001, India.

\*\*Department of Chemistry, M. I. E. T. Modinagar, India.

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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.