

## Safety Evaluation Studies of *Citrullus Colocynthis* for diabetes in Rats

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### Abstract

An experiment conducted in the department of Pharmacology and Toxicology, Nagpur Veterinary College, Nagpur reported *Citrullus colocynthis* to possess antidiabetic effect in rats at the rate of 50 mg/kg b.w and 100mg/kg b.w. So it was decided to also evaluate the safety of *Citrullus colocynthis* in rats at its antidiabetic dose. The experiment was conducted for 28 days. 18 wistar rats were divided into three groups containing six rats in each group. Group T<sub>1</sub> was maintained as normal control, whereas groups T<sub>2</sub> and T<sub>3</sub> received aqueous extract of *Citrullus colocynthis* @ 50 and 100 mg/kg body weight. Haematological and Biochemical estimations were done at the end of experiment i.e. on 29<sup>th</sup> day by using standard kits. Rats were then sacrificed and histopathological examinations were done. The results obtained showed that *Citrullus colocynthis* is safe at its antidiabetic dose and is safe for use as an antidiabetic remedy.

**Keywords:** Diabetes, Safety Evaluation, Metabolic disease, Herbal drug.