

# Pharmacological Evaluation of Anti-Diabetic Activity of *Dioscorea alata* Leaves in Animal Model

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**Abstract:** *The current study investigated the anti-diabetic potential of Dioscorea alata extract in streptozotocin-induced diabetic rats. Diabetes was induced in rats by a single intraperitoneal injection of streptozotocin (60mg/kg). The diabetic rats were treated with low (100 mg/kg) and high (200 mg/kg) doses of Dioscorea alata extract. The study assessed the effect of the extract on body weight and blood glucose levels. The results showed that Dioscorea alata extract significantly reduced blood glucose levels and attenuated weight loss in diabetic rats. These findings suggest that Dioscorea alata possesses anti-diabetic activity and may be a potential source of therapeutic agents for managing diabetes mellitus.*

**Keywords:** *Dioscorea alata, Diabetes, Streptozotocin, Blood glucose, Body weight, Phytochemicals*

