



## **Antidiabetic and Hepatoprotective Activity of Seed Extract of Brassica Nigra Seed on Alloxan Induced Model**

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**Abstract:** The present study investigated the hepatoprotective and antidiabetic effect of BRASSICA NIGRA in alloxan induced rats. Antidiabetic activity of the aqueous extracts of B. nigra seeds (AEBN) was studied in alloxan induced diabetic rats. The effect of extract on fasting blood glucose, body weight, lipid profile, and total protein were analyzed. Metformin was used as standard reference drug.

Aqueous extract B. nigra seeds (AEBN) showed highly significant blood glucose lowering effect. After diabetic rats treated with AEBN (400 mg/kg) for 21 days, there were a significant decrease in fasting blood glucose, total cholesterol and total significant increase in body weight, serum total protein levels as compared to untreated diabetic rats.

The results of the experiments showed that AEBN seeds might be useful for management of hepatic damage, diabetes mellitus and other abnormalities associated with this metabolic disorder. The present study might support the traditional use of B. Nigra for diabetes mellitus treatment.

**Key words:** *Brassica nigra*, diabetes mellitus, alloxan and hepatoprotection.

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