

PDF - EFFECTS OF VERNONIA AMYGDALYNA ETHYL ACETATE FRACTION ON INTESTINAL GLUCOSE ABSORPTION IN ALLOXAN INDUCED DIABETIC ADULT WISTAR RATS - researchcub.info

ABSTRACT

Diabetes mellitus is a metabolic disorder characterized by hyperglycemia and hyperlipidemia caused by insulin deficiency or insulin resistance. This study evaluated the effects of ethyl acetate fraction of *Vernonia Amygdalina* extract on glucose absorption in alloxan induced diabetes in adult *Wistar* rats. Twenty (20) rats weighing between 150g -180g were used for the study and were grouped into four groups (n=5). Group 1 (control) were only fed with growers mash and water daily. Group 2 were diabetic control. Group 3 rats were non-diabetic and treated with 1ml of *Vernonia Amygdalina* extract. Group 4 rats were diabetic and treated with 1ml of *Vernonia Amygdalina* extract. 40mg/kg intraperitoneal injection of Alloxan solution was used to induce diabetes mellitus in this animal model. After 8days of *Vernonia Amygdalina* administration, glucose absorption in the small intestine was determined by everted sac method where a part of the small intestine was inserted into a Kreb's bicarbonate solution in an aerated flask and incubated for 30 minutes and the glucose absorption by the tissue is accessed by spectrophotometer. Data from this study were analyzed using Statistical Package for Social Sciences (SPSS version 21) software and expressed as Mean \pm Standard Error of the mean (SEM) using ANOVA with significant level at $P < 0.05$. The result shows a reduction in blood glucose level in diabetic rats treated with *Vernonia Amygdalina* extract. This may be attributed to inhibitory action of *Vernonia Amygdalina* on glucose transporters (SLGT-1 and GLUT-2) while subsequently increasing sodium ion (Na^+) transport. Conclusively, *Vernonia Amygdalina* has hypoglycemic potential which were evidenced in the reduced blood glucose level observed in this study.

EFFECTS OF VERNONIA AMYGDALYNA ETHYL ACETATE FRACTION ON INTESTINAL GLUCOSE ABSORPTION IN ALLOXAN INDUCED DIABETIC ADULT WISTAR RATS

The complete project material is available and ready for download. All what you need to do is to order for the complete material. The price for the material is NGN 3,000.00.

Make payment via bank transfer to Bank: Guaranteed Trust Bank, Account name: Emi-Aware technology, Account Number: 0424875728

Bank: Zenith Bank, Account name: Emi-Aware technology, Account Number: 1222004869

or visit the website and pay online. For more info: Visit <https://researchcub.info/payment-instruct.html>

After payment send your depositor's name, amount paid, project topic, email address or your phone number (in which instructions will sent to you to download the material) to +234 70 6329 8784 via text message/ whatsapp or Email address: info@allprojectmaterials.com.

Once payment is confirmed, the material will be sent to you immediately.

It takes 5min to 30min to confirm and send the material to you.

**For more project topics and materials visit: <https://researchcub.info/> or For enquiries:
info@allprojectmaterials.com or call/whatsapp: +234 70 6329 8784**

Regards!!!