

ABSTRACT

Activity of Two Cultivars Pepino Fruit (*Solanum muricatum*) on Decreasing Blood Glucose Level in Streptozotocin-Induced Diabetic Mice

The aim of this study was to know the activity of oval pepino fruit and round pepino fruit on the effect in decreasing blood glucose level in diabetic mice. Twenty four mice were divided into 4 group i.e oval pepino fruit juice , round pepino fruit juice, positive control and negative control. Streptozotocin was given for 5 days of 1.12 mg/20 g BW by i.p once daily. The oval pepino fruit juice and round pepino fruit juice given orally in 6th day to 21st day after streptozotocin inducing. Dosage of oval pepino fruit juice of 11,42 mg/20g BW once daily and 13,90 mg/20g BW once daily for round pepino fruit juice. Glucose levels were calculated from the 7th day to 21st day. The data were analyzed by Anova Two Way and continued uses LSD tests. There were a significance differences ($p = 0,046$) between oval pepino fruit juice and negative control. But, there was no significance difference between round pepino fruit juice and negative control. The result of this study showed that pepino fruit juice oval decreased glucose level us diabetic mice at 11,42 mg/20g BW once daily, while round pepino fruit juice did not decrease glucose level of streptozotocin diabetic mice

Keyword : *Solanum muricatum*, mice, streptozotocin