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(57) Abstract :
The present invention relates to pharmaceutical field, be specifically related to effects of Clitorea ternateaLinn.against Streptozotocin induced diabetes in rats. By measuring fasting serum glucose (FSG) using the enzymatic glucose oxidase or peroxidase technique, the antihyperglycemic effect of EECT was investigated in normal fasted, glucose-fed, hyperglycemic rats. Lipid peroxide/thiobarbituric acid reactive substances (TBARS), superoxide dismutase (SOD), total nitric oxide, catalase (CAT) and glutathione levels were assayed in diabetic rats. EECT (100 and 300 mg/kg) demonstrated noteworthy antihyperglycemic activity by reducing fasting glucose (FSG) in all hyperglycemic models, where FSG was only improved with EECT at a 300 mg/kg dose. Additionally, animals treated with EECT (100 and 300 mg/kg) showed a significant decrease in TBARS ($P<0.001$), nitric oxide and a significant increase in SOD, CAT and reduced glutathione levels in comparison to the diabetic control group.

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