ABSTRACT

THE EFFECT OF CIVET COFFEE INFUSION AGAINST BLOOD GLUCOSE LEVEL IN MICE (Mus musculus L.) INDUCED ALLOXAN

by

Ardiansyah

Diabetes Mellitus (DM) is a disease characterized by high glucose levels in the blood. Treatment of DM can be done with non pharmacological and pharmacological. Various traditional herbal medicines have been used by the Indonesian community to treat diabetes. One of them is by drinking coffee routinely. This study aims to determine the effect of civet coffee infusion against blood glucose levels in mice induced alloxan and know optimal dose of civet coffee infusion to reduce blood glucose levels in mice induced alloxan. Research arranged in a randomized block design complete with 9 groups and three replications. One group of mice was used as normal control and other mice groups were given alloxan dose of 4.8 mg/g body weight and civet coffee infusion doses of 0, 6, 12, 18, 24, 30, 36, and 42 mg/kg body weight once daily for 7 days starting day 8 post induction of alloxan. The results showed that application of coffee infusion gave significant effect against blood glucose levels in mice induced alloxan. Application of civet coffee infusion dose of 36 mg/kg body weight once daily for 7 days can lower blood glucose levels to normal of 187 mg/dL.

Keyword: alloxan, blood glucose, civet coffee infusion, diabetic.