Plantanus
JURNAL PENELITIAN TANAMAN OBAT INDONESIA

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Hypoglycemic Effect of Andrographis paniculata Nees and Lagerstroemia speciosa extract combination

Efek Hipoglikemik Kombinasi Ekstrak Andrographis paniculata Nees dan Lagerstroemia speciosa

Abstract

The aim of this present study is to determine the hypoglycemic effect of combined extract consists of alcoholic extract from herbs of Andrographis paniculata Nees and leaves of Lagerstroemia speciosa in alloxan-induced diabetic mice. Hypoglycemic effects were tested by treating mice alloxan-induced Balb/C in five groups of five animals for each group using extract from herbs of Andrographis paniculata Nees, extract from leaves of Lagerstroemia speciosa and combined extract from herbs of Andrographis paniculata Nees and leaves of Lagerstroemia speciosa at doses of 28 mg/20 g body weight. Obtained results were statistically compared with the results from group treated with CMC-Na 0.5% (control) using one way ANOVA followed by Tukey test to determine the significant changes in blood glucose level. Orally administration of 28 mg/20 g body wt. of Andrographis paniculata Nees extract exhibited blood glucose level reduction significantly on 7th days of treatment, on the other hand mice treated with Lagerstroemia speciosa extract and the combination from extract of Andrographis paniculata Nees and Lagerstroemia speciosa with all ratio for 7 days did not significantly reduce blood glucose level in alloxan-induced diabetic mice.

Keyword : Andrographis, paniculata, Lagerstroemia, speciosa, Hypoglycemic, Effect,

Daftar Pustaka :