

ABSTRAK

Nama : Imanullah
Program Studi : S1 Farmasi
Judul : Uji Efektivitas Antihiperglikemia Sari Tebu (*Saccharum officinarum* L.) Terhadap Mencit.

Sari tebu (*Saccharum officinarum* L.) mengandung *kakutou*, *saccharant*, flavonoid dan tannin. Penelitian ini bertujuan untuk menentukan efektivitas antihiperglikemia sari tebu (*Saccharum officinarum* L.) terhadap mencit jantan. Uji efektivitas antihiperglikemia dilakukan dengan pemberian aloksan pada 25 mencit untuk meningkatkan kadar gula darah, setelah 48 jam kepada masing-masing kelompok mencit diberikan Na CMC 0,5%, glibenklamid 0,013 mg/20 g BB, sari tebu 5,6 mg/20 g BB, 11,2 mg/20 g BB dan 16,8 mg/20 g BB. Kadar gula darah mencit ditentukan pada hari ke 1,3,7 dan 14. Data penurunan kadar gula darah dianalisis menggunakan uji statistik anova dilanjutkan LSD pada taraf kepercayaan 95%. Hasil penelitian menunjukkan bahwa sari tebu (*Saccharum officinarum* L.) memiliki efektivitas antihiperglikemia terhadap mencit jantan yang diinduksi aloksan.

Kata kunci:

Sari tebu (*Saccharum officinarum* L.), diabetes mellitus, aloksan.

ABSTRACT

Name : Imanullah
Study Program : S1 Pharmacy
Title : Effectiveness Antihyperglycemia of Sugarcane Juice
(*Saccharum officinarum* L.) on Mice.

Sugarcane juice (*Saccharum officinarum* L.) contains kakutou, saccharant, flavonoids and tannins. This study aims to determine the effectiveness antihyperglycemia of sugarcane juice (*Saccharum officinarum* L.) on male mice. Antihyperglycemia effectiveness test was carried out by giving alloxan to 25 mice to increase blood sugar levels, after 48 hours each group of mice was given Na CMC 0.5%, glibenclamide 0.013 mg / 20 g BB, sugarcane juice 5.6 mg / 20 g BB, 11.2 mg / 20 g BB and 16.8 mg / 20 g BB. The blood sugar levels of mice were determined on days 1,3,7 and 14. Data of blood sugar decrease levels were analyzed using ANOVA statistical tests followed by LSD at the 95% confidence level. The results showed that sugarcane juice (*Saccharum officinarum* L.) had the effectiveness of antihyperglycemia on male mice induced by alloxan.

Keywords:

Sugarcane juice (*Saccharum officinarum* L.), diabetes mellitus, alloxan.