

PERSETUJUAN PEMBIMBING

Skripsi Yang Berjudul Uji Efek Ekstrak Etanol Benalu (*Dendrophthoe pentandra*)
Terhadap Penurunan Kadar Gula Darah Tikus Putih (*Rattus novergicus*) yang
diinduksi Glukosa

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**UJI EFEK EKSTRAK ETANOL BENALU (*Dendrophthoe pentandra*)
TERHADAP PENURUNAN KADAR GULA DARAH TIKUS PUTIH
(*Rattus novergicus*) YANG DIINDUKSI GLUKOSA**

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ABSTRAK

Diabetes mellitus merupakan suatu kumpulan gejala yang timbul pada seseorang yang disebabkan karena adanya peningkatan kadar glukosa dalam darah yang melebihi nilai normal. Kadar glukosa darah normal yaitu 145 mg/dl. Penelitian ini bertujuan untuk menguji efek penurunan kadar gula darah ekstrak benalu (*Dendrophthoe pentandra*) pada tikus putih (*Rattus novergicus*) yang diinduksi glukosa. Penelitian ini menggunakan metode ekstraksi maserasi menggunakan pelarut etanol 96% selama 3 kali 24 jam untuk mendapatkan ekstrak benalu. Setelah itu, ekstrak dibagi menjadi 3 konsentrasi yaitu 3% b/v, 6% b/v, 9% b/v. 15 ekor tikus putih jantan dibagi menjadi 5 kelompok dan setiap kelompok terdiri dari 3 tikus putih jantan. Kelompok I adalah kontrol negatif yang diinduksi Na CMC suspensi 1%, kelompok II adalah kontrol positif yang diinduksi Akarbose 0,009% b/v dan kelompok III, IV, V adalah kelompok perlakuan yang diinduksi ekstrak benalu 3% b/v, 6% b/v, 9% b/v. Data diperoleh dengan hasil pengukuran kadar gula darah puasa, 30 menit setelah diinduksi glukosa 13,5 % b/v dan pada menit 60, 90, 120, 150 dan 180 setelah perlakuan. Hasil penelitian menunjukkan bahwa ekstrak etanol benalu (*Dendrophthoe pentandra*) dapat menurunkan kadar gula darah tikus putih (*Rattus novergicus*) yang diinduksi glukosa, dan ekstrak benalu (*Dendrophthoe pentandra*) 9% b/v memberikan efek yang paling efektif terhadap penurunan kadar gula darah (KGD) tikus putih (*Rattus novergicus*) sebesar 64.67 %.

Kata Kunci : Diabetes Mellitus, Ekstrak Benalu, Tikus Putih

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ABSTRACT

Nurmiati Latae. 2015. The Test of Effect of Ethanol Extract from *Benalu* (*Dendrophoe pentandra*) toward the Blood Sugar Level of Glucose Induced White Rats (*Rattus Novergicus*). Skripsi. Study Program of Pharmacy, Department of Pharmacy, Faculty of Health Science and Sports, State University of Gorontalo. Principal Supervisor was Dr. Widysusanti Abdulkadir, M.Si, Apt and Co-supervisor was Hamsidar Hasan, S.Si., M.Si., Apt

Diabetic mellitus is a group of symptoms that can be found in someone due to the high level of glucose in his/her blood. The normal level of blood glucose is 145 mg/dl. This research was designed to test the effect *benalu* extract to lower the blood sugar level in glucose induced white rats. This research used the maseration extraction method of 96% of ethanol emulsifier for 72 hours to extract the *benalu*. Further, the extract was divided into 3 concentrates of 3% b/v, 6% b/v, and 9% b/v. fifteen white rats were then divided into five groups of three. The first group was a negative control group, in which the rats were induced with 1% suspense of Na-CMC; the second group was a positive control group induced with the acerbose of 0.009% b/v; the third, fourth and fifth groups were treatment groups which were induced with 3% b/v, 6% b/v, and 9% b/v of *benalu* extract. The data were collected from the result of fasting glucose level, 30 minutes after the induction of 13.5% b/v of glucose and in the 60th, 90th, 120th, 150th, and 180th minutes after the treatment. This research showed that the ethanol extract from *benalu* could lower the blood sugar level of glucose induced white rats, and that the 9% b/v extract gave the most effective effect in lowering the blood sugar level in the glucose induced white rats of 64.67%.

Keywords: Diabetic Mellitus, *Benalu* Extract, White Rats.

