

## ABSTRAK

Penyakit Diabetes Mellitus merupakan masalah kesehatan yang perlu diwaspadai di Indonesia, mengingat semakin meningkatnya jumlah penderita penyakit ini dari tahun ke tahun. Akibat dari penyakit diabetes mellitus ini, timbul berbagai macam komplikasi seperti penyakit jantung, gagal ginjal, kebutaan, dan sebagainya. Adanya peningkatan jumlah penderita dan komplikasi yang ditimbulkan penyakit ini maka semakin banyak biaya perawatan yang diperlukan. Oleh karena itu, pengenalan dan penggunaan tanaman tradisional sebagai obat sangat diperlukan karena harganya relatif lebih murah. Tanaman-tanaman tradisional yang diduga dapat menurunkan kadar glukosa darah adalah pare, sambilata, dan kumis kucing.

Pada penelitian ini telah dilakukan uji efek kadar glukosa darah formula "SUSANA 99 – 2003" sebanyak 10 ml/kg BB pada tikus putih jantan diabetes akibat pemberian alloxan 200 mg/kg BB secara intra peritoneal. Dalam penelitian ini digunakan 18 ekor tikus putih jantan strain Wistar yang dibagi menjadi 3 kelompok, yaitu kelompok kontrol (diberi suspensi amilum 10 ml/kg BB secara oral), kelompok pembanding (diberi suspensi Metformin HCl 500 mg/kg BB sebanyak 10 ml/kg BB secara oral), dan kelompok uji (diberi formula "SUSANA 99 – 2003" sebanyak 10 ml/kg BB secara oral).

Berdasarkan hasil penelitian, formula "SUSANA 99 – 2003" tidak dapat menurunkan kadar glukosa darah tikus putih jantan diabetes akibat induksi alloxan secara intra peritoneal.



## ABSTRACT

Diabetes Mellitus disease is a health problem which is needed to be awared in Indonesia, concerning the increasing number of the sufferer of this disease each year. The result from this diabetes mellitus disease is any variance of complication such as heart disease, kidney failure, lost of sight, etc.

The increasing number of the sufferer and the complication resulted from this disease cause a costly treatment needed. Because of that, the knowledge and the using of traditional herbs as a medicine is very needed because of its relatively low cost. Traditional herbs predicted can decrease glucose plasma are pare, sambilata, and kumis kucing.

In this research, glucose plasma effect test by using the formula of "SUSANA 99 - 2003" as much as 10 ml/kg body weight had been conducted on male white rat. That are diabetes sufferer because they had been given alloxan 200 mg/kg body weight by means of intra peritoneal. In this research, 18 strain Wistar male white rats are used. These rats are divided into 3 groups namely control group (orally given amilum suspension 10 ml/kg body weight), comparative group (orally given metformin HCl suspension 500 mg/kg body weight much as 10 ml/kg body weight), and tested group (orally given the formula of "SUSANA 99 - 2003" as much as 10 ml/kg body weight).

Base on the result of this research the formula of "SUSANA 99 - 2003" can not lower glucose plasma on male white rats that are diabetes sufferers because of alloxan induction by means of intra peritoneal.

