

## ABSTRAK

Gout merupakan penyakit metabolik yang menyebabkan kadar asam urat darah melebihi batas normal. Tujuan dari penelitian ini untuk menentukan nilai LD<sub>50</sub> ekstrak air herba Akar Kucing (*Acalypha indica* Linn.) dan pengaruhnya terhadap kadar asam urat dalam darah.

Pada penentuan nilai LD<sub>50</sub>, 20 ekor mencit dibagi secara acak menjadi 4 kelompok. Mencit-mencit ini diamati selama 24 jam. Hasil menunjukkan bahwa nilai LD<sub>50</sub> dari ekstrak air herba Akar Kucing adalah 8,1329 g/kg bb.

Pada uji khasiat ekstrak air herba Akar Kucing digunakan 36 tikus jantan yang dibagi menjadi enam kelompok. Kelompok I, II dan III masing-masing diberi ekstrak air herba Akar Kucing dengan dosis 1,35 g/200 g bb; 2,7 g/200 g bb; and 5,4 g/200 g bb per hari. Sedangkan kelompok IV, V dan VI merupakan kelompok kontrol pembanding (alopurinol), perlakuan dan normal. Perlakuan diberikan selama 7 hari. Pada hari ke-8, semua kelompok (kecuali kontrol normal) diinduksi dengan kalium oksonat satu jam sebelum perlakuan. Dua jam setelah diinduksi, sampel darah diambil dan diukur. Penetapan kadar asam urat menggunakan metode kolorimetri enzimatik. Hasil menunjukkan dosis 2,7 g/200 g bb dan dosis 5,4 g/200 g bb per hari dapat menurunkan kadar asam urat secara bermakna ( $p < 0,05$ ).

Kata kunci: *Acalypha indica* Linn., LD<sub>50</sub>, asam urat, gout

x + 92 hlm; gambar; tabel; lampiran

Bibliografi : 47 (1952-2007)

## ABSTRACT

Gout is a metabolic disease that can cause much uric acid level in blood. The purpose of this research was to determine LD<sub>50</sub> level in the water extract of Akar Kucing (*Acalypha indica* Linn.) herb and its influence on uric acid level.

In determining LD<sub>50</sub>, 20 mice were randomly divided into 4 dose groups. The dosed animals were observed during 24 hours. Results show that LD<sub>50</sub> of the water extract of Akar Kucing herb is 8,1329 g/kg body weight.

In the observation about the influence of the water extract of Akar Kucing herb, 36 male rats were randomly divided into 6 groups. Group I, II, and III received 1,35 g/200 g; 2,7 g/200 g; and 5,4 g/200 g body weight per day of the water extract of Akar Kucing herb. While group IV, V, and VI are comparison groups (allopurinol), treatment, and normal control. This treatment was given for 7 days. On the 8th day, all groups (except the normal group) were injected with potassium oxonate 1 hour before drug administration. Two hours after injection of potassium oxonate, blood samples were collected and determined. The determination was used a colorimetric enzymatic method. Results showed that doses of 2,7 g/200 g and 5,4 g/200 g rat per day have a significant effect to reduce uric acid level ( $p < 0,05$ ).

Keywords : *Acalypha indica* Linn., LD<sub>50</sub>, uric acid, gout

x + 92 pages; figure; table; appendix

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