

ABSTRACT

Acute and Subchronic Toxicity of Dried Extract of Andrographis Herbs (*Andrographis paniculata* Nees.) and Mahogany Seeds (*Swietenia mahagoni* Jacq.) Combination

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Andrographis Herbs (*Andrographis paniculata* Nees.) and Mahogany seeds (*Swietenia mahagoni* Jacq.) has known as a herbal antidiabetic. Now, combination of Andrographis Herbs (and Mahogany seeds were being developed as a phytopharmacy. The studies was carried out to evaluate acute and subchronic toxicity combination of dried extract from Andrographis herbs and mahogany seeds to fulfill qualification of phytopharmaceutical products registration.

Combination of dried extract from Andrographis herbs and mahogany seeds with ratio 2 : 1 were administered orally to female mice on acute toxicity and male-female rat on subchronic toxicity. Dose which used for acute toxicity were 16.000, 8.000, 4000, 2.000 and 1.000 mg/kg given once on 24 hour and observed death and toxic symptoms along 14 days. Subchronic toxicity, dose which used were 1.000, 500, and 250 mg/kg BB given everyday along 28 days and observed clinical parameter like hematology, clinical chemistry, and relative vital organ weight and also toxic symptoms

The combination of dried extract shows no death and toxic symptoms on all of mice, so that can be determined LD₅₀ of dried extract are 16.000 mg, which are relatively harmless drug categories. On subchronic toxicity, after did clinical symptoms observation like hematology, clinical chemistry, and relative vital organ weight and analyzed statistically, the results show the combination of andrographis herbs and mahogany seeds dried extract did not cause toxic effect on male and female rats.

Keywords : *Andrographis paniculata* Nees, *Swietenia mahagoni* Jacq, Acute Toxicity, Subchronic Toxicity