ABSTRACT

*Myrmecodia armata* DC. is very potential to be developed as human anticancer medicine. Toxicity test needs to be done as one way to know its safety level of usage.

Acute toxicity test had been done in this research by measuring LD_{50} and teratogenic test to extract ethanol of *Myrmecodia armata* DC. that used mice as subject. Acute toxicity test have been done first to know the toxicity level of the plant. Teratogenic test was done later to know the safety of material usage in organogenesis and pregnancy times.

In this acute toxicity test, the material was given orally. For the first hours, the symptom that happened was less activity and the mice activity was recovery after two hours. After one week observed, the mice not to died. The result was observed that the LD_{50} of the extract ethanol is larger than 24,51 g/kg BW p.o of the mouse resulted. Thus, extract ethanol *Myrmecodia armata* DC. was concluded as practical untoxic category.

In teratogenic test, female mouse was synchronized by intraperitoneally 5 IU PMSG and 5 IU hCG injection later. Test material was given from the 7th day until the 15th day after pregnancy times.

Caesar surgery was done in the 18th day of the pregnancy times. Observation of the total amount and average weight and average length and abnormal physic of the fetus was done later. The given data by ANAVA test with $\alpha = 0.05$ found that there were no significant differences between treatment groups and there were no teratogenic effects between treatment and control groups.

Keywords: *Myrmecodia armata* DC., acute toxicity, teratogenic tests.