ABSTRACT

Muscle relaxant activity of oil fraction of kencur rhizome (*Kaempferia galanga* L) With rotarod test methode

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This research aimed to determining the potential of oil fraction rhizome (Kaempferia galangal L) as muscle relaxant on skeletal muscle of mice. Mice were divided into 5 groups : positive control, three test group with different dosage levels, and negative control groups. For the negative control group used CMC-Na with levels of 5 % . For the test group used a dose of 1 kencur oil fraction with a dose of 4.02 mg / 20 g BB mice , 8.04 mg / 20 g BB mice to doses of 2 , and 16.09 mg / 20 g BB mice to doses of 3, while for Diazepam is used positive control group at a dose of 0.5408 mg / 20 g BB mice. From the Post Hoc LSD test results can be seen that there are significant differences between negative control group to test group dose of 1, 2 and 3 are marked with significance values less than 0.05. On test group dose 3 to positive control showing significance value of 0.066 (p> 0.05), which showed no significant difference. This showed a dose of 3 (oil fractions kencur 16.09 mg / 20 g BB of mice) has a potential that is almost comparable to the positive control (diazepam 0.5408 mg / 20 g BB of mice) in a muscle relaxant activity.

Keywords : *Kaempferia galanga* L ,myalgia, muscle relaxant, rotarod