

## **THE EFFECT OF ALKALOID FRACTION OF JARONG (*Achyranthes aspera linn*) ON VIABILITY CULTURE MYELOMA CELL MICE**

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### **ABSTRACT**

The purpose of this research is to prove that the effect of alkaloid fraction of jarong (*Achyranthes aspera linn*) can be used as a cure for cancer with invitro on cultured cell of myeloma cell of mice using the method of cell counting.

In this research, the percentage of the perceived cell viability of the living myeloma cell is compared with the dead cell using the negative and positive control. This research divided into five group: P0 is control negative, P1 liquid test 1 ppm, P2 liquid test 10 ppm, P3 liquid test 100 ppm, P4 liquid test 1000 ppm and P5 positive control of 100 ppm colchisin. All groups were repeated four times and incubated for 24 hours in an incubator 95% O<sub>2</sub> 5% CO<sub>2</sub> at temperature of 37 °C. Then the culture which had been treated was taken 0,1cc and give 0,1cc of 4% tripan blue. Later the dead cells and the living cell were calculated using the thoma method with the help of hemositometer. The living cells will be colorless and dead cell will be tinted.

The result of assasment of the myeloma cells using hemositometer showed that the cultured cell in the concentration of 100 ppm and 1000 ppm will have lower viability compared with the concentration of 1 ppm, 10 ppm and positive control. In the concentration 1 ppm, the alkaloid fraction of jarong (*Achyranthes aspera linn*) killed more than 50 percentage of myeloma. The alkaloid fraction of jarong (*Achyranthes aspera linn*) on the viability of myeloma cell culture of mice haved Lethal Concentration  $_{50}$  : 0,716 ppm.

**Key words : viability cell, cultured cell, myeloma, *Achyranthes aspera linn*.**