THE INFLUENCE OF PASAK BUMI ROOTS EXTRACT (*Eurycoma longifolia*) TOWARD MDA SERUM LEVEL IN RATS (*Rattus norvegicus*) WHICH WERE EXPOSED BY MONOSODIUM GLUTAMATE

Rezki Arianto

ABSTRACT

The purpose of this research was to know the influence of pasak bumi roots extract (*Eurycoma longifolia*) to inhibit the increasing of MDA level in rats’ serum (*Rattus norvegicus*) which were exposed by MSG. This research was done for 30 days using male rats as animal experiment. This research is an laboratory experimental using complete random design (RAL) factorial. The research was using 20 male rats which were divided into five groups, each group consisted of K- as negative control which were given 2 ml of CMC-Na and 1 ml of aquades, P0 was given 1ml of cmc-na 0,5% and MSG 4g/kgBW/day, P1 was given extract of pasak bumi roots 400mg/kgBW/day and MSG 4g/kgbw/day, P2 was given extract of pasak bumi roots as much as 600mg/kgbw/day and MSG 4g/kgbw/day, P3 was given extract of pasak bumi roots as much as 900mg/kgbw/day and MSG 4g/kgbw/day. The result of research showed that average level of MDA serum on K-(1.04 ± 0.56), P0(2.33 ± 0.25), P1(2.24 ± 0.17), P2(1.58 ± 0.22) and P3(1.44 ± 0.32). It can be concluded that the giving of extract of pasak bumi roots can inhibit the increasing of MDA serum of rats which were exposed by MSG (p<0,05).

*Keyword: Eurycoma longifolia, Antioxidant, Malondialdehyde, Monosodium glutamate*