

INTISARI

Sistem imun merupakan sistem pertahanan yang melindungi tubuh dari suatu penyakit. Tanaman mimba merupakan tumbuhan obat tradisional yang dapat digunakan sebagai obat alternatif untuk menyembuhkan berbagai penyakit. Berbagai penelitian yang telah dilakukan menyatakan bahwa ekstrak air daun dan batang mimba memiliki aktivitas imunostimulan. Penelitian ini bertujuan untuk mengetahui pengaruh pemberian ekstrak etanol daun mimba terhadap peningkatan kadar antibodi dan berapa besar persentase peningkatan kadar antibodi.

Penelitian ini bersifat eksperimental murni dengan rancangan acak lengkap pola searah. Tikus jantan galur Wistar diberi perlakuan ekstrak etanolik daun mimba dan diinduksi dengan antigen vaksin Hepatitis B. Uji peningkatan kadar antibodi dilakukan dengan metode ELISA (*Enzyme Linked Immunosorbent Assay*). Data hasil uji dianalisis secara statistik menggunakan uji Kruskal Wallis.

Hasil penelitian menunjukkan bahwa ekstrak etanolik daun mimba dengan dosis 35;70;140 mg/kg BB tidak memberikan efek imunostimulan dengan meningkatkan kadar antibodi darah.

Kata kunci: peningkatan kadar antibodi, tikus jantan, ekstrak etanolik, daun mimba

ABSTRACT

Immune System protects the body from many diseases. Neem plant is one of traditional herbal drug that can be used as alternative medicine for healing many diseases. Various researches had been done previously showed that water extract of neem's leaf and bark had the immunostimulant activity. The purposes of this research are to know the effect of ethanolic extract of neem's leaf on the increase of antibody concentration and to determine the percentage of the increase of antibody concentration.

This research is a pure experimental research with the one way pattern complete random design. Male Wistar rats were given ethanolic extract of neem's leaf and induced by Hepatitis B vaccine. Increase of antibody concentration was measured by using ELISA method (Enzyme Linked Immunosorbent Assay). The result was statistically analyzed by using Kruskal-Wallis test.

The result indicates that ethanolic extract of neem's leaf at the dose of 35;70;140 mg/kgBB does not show immunostimulant activity to the increase of antibody concentration.

Key words: increase of antibody concentration, male rat, ethanolic extract, neem's leaf