



Activity of Ethanol extract of *Passiflora foetida* Linn leaves on Hypersensitivity Response of Immune cells in vivo

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Abstract : *Passiflora foetida* L leaves contain flavanoid compounds. Some studies on flavonoids show that flavonoids can modulate the immune system. The purpose of this study was to determine the difference of ethanol extract dose of *passiflora foetida* L. leaves to immunomodulator. Tests on Delayed Type Hypersensitivity using dose of 0.4 g/kgbw, 0.8 g/kgbw, and 1.2 g/kgbw. The extract was given for 7 days. The hypersensitivity response test was performed using 25 mice (Balb/c) divided into 5 groups: control, negative control, extract groups dose of 0.4 g/kgbw, 0.8 g/kgbw, and 1.2g/kgbw. The groups, except control group, were given antigen (SRBC) on the 3rd day intraperitoneally and on the 7th day were administered intraplantarly. The thickness of the soles of the feet was measured using a plethysmometer before and after injecting the antigen at T4, T24 and T48. The extracts dose of 0.4, 0.8, and 1.2 g/kgbw showed that swelling of the feet of mice decrease compared to control group. The results showed that the dose of 0.4 g/kgbw, 0.8 g/kgbw, and 1.2 g/kgbw showed no significant difference ($p > 0.05$).

Keywords : *Passiflora foetida* (L.) leaves, Delayed Type Hypersensitivity, immunomodulator.

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