ABSTRACT

ANALGESIC ACTIVITY TEST OF N-HEXANE EXTRACT OF Marsilea crenata Presl. IN WRITHING METHOD ON MICE

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The objective of this study was to evaluate the analgesic activity of n-hexane extract of Marsilea crenata Presl. The analgesic effect was examined by acetic-acid-induced writhing response. Before intraperitoneally injection of acetic acid 0.6%, drugs were orally administered to Balb/C mice. This animal were divided into 5 groups, positive control (Ibuprofen 1.04 mg/20 g BW mice), negative control (10% tween 80), dose 1 (0.27 mg/20 g BW mice), dose 2 (0.54 mg/20 g BW mice), and dose 3 (0.81/20 g BW mice).

The number of writhings exhibited by each animal was counted for thirty minute beginning five minute after acetic acid induction. Obtained data were analyzed by one-way ANOVA followed by LSD test with confident level 0.05. Dose 1, dose 2, and dose 3 showed significant different compare to negative control (p<0.05). Dose 1 (0.27 mg/20 g BW mice) almost equal to positive control (p>0.05). This study indicates that n-hexane extract of Marsilea crenata has analgesic effect. The obtained results provide information for the potential use in the treatment of pain.

Keywords: Analgesic activity; N-heksana extract; Writhing method