ANALGESIC AND ANTI-INFLAMMATORY ACTIVITIES OF AN ETHANOL EXTRACT OF *DUNALIELLA SALINA* TEOD. (CHLOROPHYCEAE)

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ABSTRACT

This study investigated the analgesic and anti-inflammatory effects of an ethanol extract of Dunaliella salina Teod. (Chlorophyceae) (EDS) in Imprint Control Region mice. Standard all-trans-β-carotene and the amount of all-trans-β-carotene in an EDS were analyzed by high-performance liquid chromatography (HPLC). In HPLC analysis, the fingerprint chromatogram of EDS was established. Both all-trans-β-carotene and EDS showed similar peaks at the retention time of 24 min. This implied that EDS contained the active ingredient all-trans-β-carotene.

Treatment of animals with EDS significantly inhibited the numbers of acetic acid-induced writhing responses at doses of 0.5 g/kg (P < 0.01),

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