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(57) Abstract :
A regular and widespread use of herbs throughout the world has increased serious concerns over their quality, safety and efficacy of Acmella oleracea, a well-known antitoothache plant with high medicinal usages, has been recognized as an important medicinal plant and has an increasingly high demand worldwide. Acmella oleracea (L.) R. K Jansen is the most common cultured species of the Acmella genus and belongs to the Asteraceae (Composite) family. It is a flowering herb native to South America, where is called jambù, and nowadays, is used all over the world for food, cosmetics, pharmaceutics, and pest-management purposes All the parameters to be evaluated for pharmacognostic study such as organoleptic characters, macroscopic study, microscopic study, powder study, physico chemical analysis (moisture content, loss on drying, ash values, extractive values), phytochemical analysis, chromatographic studies, GCMS, molecular docking and formulation gel are enlisted along with their importance. .The results obtained from this study shows that ethanolic extract of Acmella oleracea had analgesic and anesthetic potential as compared to standard drug Lidocain and GCMS studies revealed presence of phytochemicals in the extract out of which N-isobutyl 2, 6, 8-decatrienamide (splinthol) is found to be present in significant quantity. So it may be concluded that analgesic and anesthetic activity may be attributed to N-isobutyl 2, 6, 8-decatrienamide.

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