



Research article

GC-MS analysis of the ethanol extracts of *Dyschoriste littoralis* Nees. (Acanthaceae)

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Key words: *Dyschoriste littoralis*, bioactive compound, Gas Chromatography (GC), Mass Spectroscopy (MS).

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Abstract

In the present study, ethanol extracts from *Dyschoriste littoralis* Nees. were subjected to GC-MS analysis to study the important phytochemical constituents responsible for the various pharmacological activities. The crude extracts of ethanol were obtained by soxlet method. The GC-MS analysis of ethanol extract from *D. littoralis* revealed the presence of nine phytochemicals in the underground part and twenty six compounds in the aerial parts. The compounds were identified by comparing their retention time and peak area with that of literature and by interpretation of mass spectra. acetyl chloride, dichloro (CHCl_2COCl) (Rt 9.49); Ethane, 1,1-diethoxy- and Methoxymethyl isothiocyanate are prominent compounds in underground part. Three major phytochemical constituent's mass spectra in aerial part are Ethyl Acetate, (3-Methyl-oxiran-2-yl)-methanol, Hydroperoxide and 1-methylbutyl.