



Bioactive Components from *Gynandropsis gynandra* Leaves for Antinociceptive Activity

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SUMMARY. *Gynandropsis gynandra* Linn. (Capparadiaceae) leaves are used in the treatment of pain traditionally. In order to evaluate its scientific validity, leaves were extracted successively to produce various extracts. These extracts were screened for antinociceptive activity using hot plate test and acetic acid-induced writhing test in mice at the dose of 100 mg/kg, intraperitoneally. Aqueous extract was found most active in both the tests. Further it was fractionated into four major fractions and were screened by the same tests at the dose of 25 mg/kg, i.p. Results showed that AQI fraction is most active and may responsible for the antinociceptive action. GC-MS analysis of AQI fraction showed that it is a mixture of benzene acetic acid ethyl ester, octanoic acid, dodecanal, and cholest-4-en-26-al, 3-oxo-, cyclic 26-(ethylene acetate).

KEY WORDS: Antinociceptive, *Gynandropsis gynandra*, Hot plate test, Writhing test.

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