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(54) Title of the invention : ANTI-ANXIETY ACTIVITY AND HPTLC PROFILING OF BIOACTIVE FRACTION OF ZIZIPHUS JUJUBE LEAVES

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(57) Abstract :

The present work conducted on ethanolic extract of Ziziphus jujube leaves for antianxiety potential. Ziziphus jujube leaves, moisture content was 0.486%, extractive values in petroleum ether, chloroform, ethanol and water were 15%, 10%, 15.5%, and 11.5% respectively Pharmacological studies showed that ethanolic fraction of leaves is bioactive as it possess antianxiety activity significantly as compared to standard drug diazepam in light and dark, rota rod and elevated plus maze test. Phytochemical screening showed presence of various phytoconstituents such as flavonoids, alkaloids, sterols, carbohydrates, terpenoids, saponins and tannins. High performance thin layer chromatography (HPTLC) profiling of extract showed presence of ten (10) compounds in chloroform and methanol solvent (8.5:1.5 ratio). The activity in the extract may be due to the presence of various phytoconstituents. It is concluded by this study that ethanolic fraction of Ziziphus jujube leaves may be used in future for treatment of anxiety related disorders.

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