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Evaluation of bioactive constituents in hydroalcoholic extract of *Nelumbo nucifera* by FTIR, HPTLC and GC-MS analysis.

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Abstract : The present study was aimed to determine the secondary metabolites which is present in methanolic fraction of hydro alcoholic extract of *Nelumbo nucifera*(G) flowers Gas Chromatography Mass- spectroscopy (GC-MS) method of analysis. Preliminary phytochemical screening of *N. nucifera* was performed for the identification of the bioactive constituents. Methanolic fraction of HPTLC finger print shows three numbers of peaks. Among the observed peaks, Peak No. 2 is having R_f value 0.88 with area 3542.4. Active constituents of Methanolic fraction of hydro alcoholic extract of *Nelumbo nucifera* analysed by GC-MS. Chromatogram-2 shows 19 numbers of peaks among the observed peaks, 5 peaks have greater area with quinoline structure.

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