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**Cytotoxicity Studies of an Ethnobotanically Selected Solanum Pubescens Willd against Selected Human Cancer Cell Lines**

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**Abstract**

**Objective:**The present study was aimed to determine the cytotoxicity concentration (CTC50) of different extracts made from the leaf and stem bark of an ethno botanically selected *S. pubescens* against Human liver carcinoma (Hep G2), Human colon carcinoma (CaCO2) and Human breast cancer (T-47 D) cell lines.

**Methods:**Ethnobotanical survey was done through interviewing traditional medicinal practitioners then a potential herbal plant was selected after a thorough literature survey and its identity was confirmed. The soxhlet extraction method was adopted using five different solvents from leaf and stem bark powders of the study plant and the CTC50 of all the extracts were determined by 3-(4, 5-dimethylthiazol-2-yl)-2, 5-diphenyltetrazolium bromide (MTT) assay method.

**Keywords:**

S. pubescens, Cytotoxic activity, MTT assay, Hep G2, CaCO2, T-47 D

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