

## HPTLC and GC-MS Analyses of Biologically Active Extracts and Fractions from *Premna Latifolia* Roxb Leaves.

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The goal of this study was to look at the various phyto-constituents in the ethyl acetate fraction of *Premna latifolia* methanolic leaves extract (MEPL) and see if they might be used for central/peripheral analgesia and inflammation. The goal of this study was to look at the various phytoconstituents in the ethyl acetate fraction of *Premna latifolia* methanolic leaves extract (MEPL) and see if they might be used for central/peripheral analgesia and inflammation. The analysis was carried out using GC-MS and HPTLC equipment. *Premna latifolia* methanolic leaves extract was tested for various activities at doses of 100 mg/kg, 200 mg/kg, and 300 mg/kg. In numerous animal models, key phytoconstituents of MEPL have been found to have significant analgesic and anti-inflammatory effects. Phytomedicines have been used by people all over the world since ancient time. Plant-based crude medications have been used by Northern Indian tribes to cure a variety of ailments. In Himachal Pradesh's local areas, unregistered individuals known as Vaidis employ crude medications to treat pathological conditions. This uncommon value, which lacks study data, requires rigorous scientific research to be validated. *Premna latifolia* is a member of the Verbenaceae family and is locally known as Agnimantha. *Premna* contains a large number of species, with 35-40 of them found in India. *Premna latifolia* has traditionally been used as an antihistamine and antipyretic. It's been used to treat numerous illnesses as an anti-diuretic. Additionally, sinusitis and pharyngitis have been treated with it. In this study, we used modern instruments like GC-MS and HPTLC to analyse the various phytoconstituents in the ethyl acetate fraction of *Premna latifolia* methanolic leaves extract. The major goal was to determine the pharmacological activity of the diterpenes and triterpenes found in their leaves. Furthermore, numerous animal models were used to assess its use as a peripheral analgesic/central analgesic and anti-inflammatory to create scientific data.

### Biography

Brijesh Kumar, is working at Department of Pharmacology, Institute of Medical Sciences, Banaras Hindu University Varanasi, India. He is a renowned scientist and won many awards.

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