

Phytochemical screening studies on *Melia orientalis* by GC-MS analysis

Srinivasan Marimuthu, Balakrishnan Padmaja, Sudarsan Nair

Clinical Research, Ayurveda Research Institute for Mother and Child Health Care,

Poojapura, Trivandrum Kerala, India

ABSTRACT

Background *Melia orientalis* (MO) is an important Ayurvedic medicinal plants. The plant part such as leaves and roots are traditionally used for the treatment of diabetes, edema, traumatic swelling, skin diseases, oligospermia and bleeding disorders. Objective To investigate the phytochemical identification of ethanol leaf extract of MO. Materials and Methods The fresh leaves of MO (1000g) were collected and shade dried at room temperature for 30 days and the dried leaves were made into a fine powder. The ethanol leaf extract obtained was dried and used for phytochemical identification by GC-MS analysis. Results The phytochemical screening studies have been carried out and identified ten chemical constituents present in the leaf extract of MO. Conclusion Thus, our results show that MO possess important phytocomponents such as phytol, squalene and stigmaterol.

KEYWORDS

Antioxidants . GC-MS analysis . medicinal plants . *Melia orientalis* . phytocomponents

REFERENCES

2026 Phcog.Net - All rights reserved. Published on the JrnIXPress platform.