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Review of the PhytoChemical Profile of Gymonosporiya Monta Beneth in Relation to its Medicinal Application

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Abstract: *Gymnosporia Montana is a medicinal plant long valued in traditional healing systems. This study aimed to investigate its phytochemical profile, pharmacological activities, and ethnobotanical relevance. Methods: Phytochemical composition was examined using NMR spectroscopy, GCMS, and HPLC. Pharmacological evaluation included cytotoxic, antimicrobial, antioxidant, and anti-inflammatory assays. Ethnobotanical information was gathered through community interviews and surveys. Results: The plant was found to contain key bioactive constituents such as flavonoids, alkaloids, and trapezoids. It demonstrated notable antimicrobial, antioxidant, and anti-inflammatory activity. Ethnobotanical importance: G. Montana is traditionally used to treat fever, digestive ailments, and to promote wound healing. Conclusion: The identified phytochemical and pharmacological properties support the plant's traditional uses. This study enhances scientific understanding of G. Montana and highlights its promise for future drug development and ethnopharmacological applications.*

Keywords: Ethnobotany, pharmacology, photochemistry, big data analytics, Gymnosporia montane, and traditional medicine

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