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# Phytochemistry, pharmacological potential, and therapeutic uses of (Palash) *Butea monosperma*: A review

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## Abstract

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The present review aims to comprehensively summarize the botanical characteristics, phytochemical composition, and pharmacological potential of *Butea monosperma*. This plant is commonly known as Palash and is rich in bioactive compounds. Various parts of the plant, including flowers, seeds, bark, and leaves, are rich in bioactive constituents such as flavonoids (butrin, isobutrin, butein), chalcones, glycosides, tannins, and steroids, which contribute to its wide spectrum of biological activities, including hypoglycemic, anti-inflammatory, anti-oxidant, anti-microbial, anti-diabetic, hepatoprotective, anti-cancer, immunomodulatory, and insecticidal. Conventionally, it is also valued for its tonic, astringent, aphrodisiac, and diuretic uses. *B. monosperma* is also recognized for its ecological and economic roles, making it a valuable candidate for sustainable drug development and natural pest control efforts, thus representing a promising source for novel therapeutic agents.

**Key words:** Bioactive compounds, *Butea monosperma*, Fabaceae, medicinal plant, pharmacological activities, phytochemistry

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