

A Review on the Bioactive Metabolites and Medicinal Applications of *Mirabilis Jalapa*

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Abstract: *Mirabilis jalapa* was historically used to treat kidney infections as a diuretic, tonic, cathartic, purgative, and emetic. Phytochemical examination of *Mirabilis jalapa* leaf and stem extracts showed tannins, alkaloids, flavonoids, phenolic compounds, carbohydrates, terpenes, glycosides, saponins, protein, cardiac glycosides, steroids, and emodin. *Mirabilis jalapa* had antimicrobial, antiparasitic, dermatological, anticancer, antiinflammatory, analgesic, antidiabetic, antihistaminic, immune-modulatory, antispasmodic, and other pharmacological effects, according to previous studies. This review covers *Mirabilis jalapa*'s chemical ingredients, nutritional, pharmacological, and therapeutic benefits..

Keywords: Components, pharmacology, therapeutics, and toxicity of *Mirabilis jalapa*