

Tinospora Cordifolia Chemical Constituents And Pharmacological Properties: A Review

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Abstract: *Tinospora cordifolia*, commonly known as Guduchi or Amrita, is a widely used medicinal plant in traditional Ayurvedic medicine, belonging to the Menispermaceae family. It is known for its diverse therapeutic properties, including the treatment of fever, diabetes, dyspepsia, jaundice, and various skin diseases. This plant has garnered significant attention in recent years due to its potential in modern medicine, supported by extensive phytochemical, pharmacological, and clinical research. Studies have highlighted its immunomodulatory, anticancer, hypoglycemic, anti-inflammatory, and antiallergic effects. The active phytochemical constituents of *T. cordifolia*, particularly alkaloids such as palmatine, have shown promising therapeutic potentials, including significant antitumor activity. In addition, its anticancer properties are believed to be mediated by dietary phytochemicals that may inhibit or delay carcinogenesis. *T. cordifolia* is native to India, and its medicinal applications span across various cultures and languages, underscoring its widespread use. The present review aims to summarize the medicinal properties, therapeutic potential, and the need for further scientific exploration of *T. cordifolia* to validate its role in modern medicine. The plant's rich pharmacological profile makes it a promising candidate for future research and development in the field of natural therapeutics

Keywords: Tinosporacordifolia, Guduchi, Amrita, medicinal plant, Ayurvedic medicine, phytochemicals, palmatine, anticancer, immunomodulation, hypoglycemic, anti-inflammatory, antiallergic.