

# A Concise Review on Pharmacological Activity, Phytochemistry and Therapeutic application of COCCINIA INDICA It's Prevention and Management of Diseases

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**Abstract:** *Coccinia grandis* Linn. Voigt, commonly known as *Coccinia indica*, belongs to the family Cucurbitaceae. It is widely utilized in traditional medicine for the treatment of various ailments such as leprosy, jaundice, asthma, bronchitis, skin disorders, burns, tongue sores, earache, indigestion, eye infections, nausea, insect bites, and fever. Phytochemical investigations have revealed the presence of diverse bioactive compounds including phenols, tannins, saponins, terpenoids, flavonoids, and sugars such as arabinose, xylose, mannose, galactose, glucose, and rhamnose.

Studies, particularly on the leaf extract, have demonstrated multiple pharmacological activities such as antihyperglycemic, xanthine oxidase inhibitory, analgesic, anti-inflammatory, antipyretic, antioxidant, antihyperlipidemic, antimicrobial, anti-hepatotoxic, and anti-insecticidal effects. Among these, its antidiabetic potential has been the most extensively explored. Recent investigations into its antioxidant properties suggest promising applications in cancer therapy. Moreover, the leaf extract exhibits notable chemoprotective activity against cyclophosphamide, a drug commonly used in cancer and autoimmune disease treatment. This review aims to summarize the diverse pharmacological and therapeutic properties of *Coccinia grandis* based on previous research findings.

**Keywords:** COCCINIA INDICA, COCCINIA grandis, Cucurbitaceae, Antidiabetic, Antibacterial, Analgesic, Anti-inflammatory, Antipyretic, Antioxidant, Antihyperlipidemic

