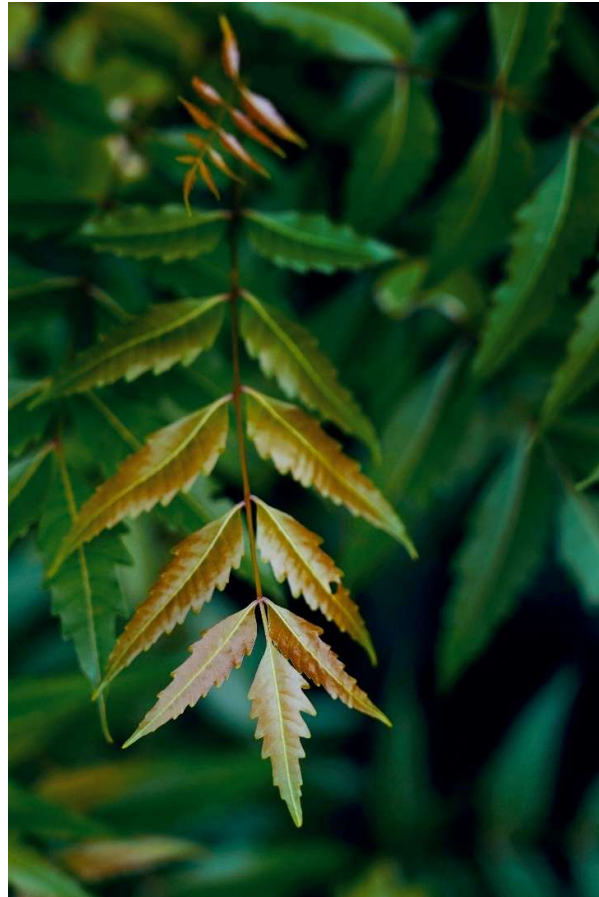




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# Neem



## **Synonym:**

Gujarati: Limbdo

Hindi: Neem / Nimb

English: Neem / Indian Lilac

**Botanical name:** *Azadirachta indica*

**Family:** Meliaceae

## **Chemical Constituent:**

- Limonoids: Azadirachtin, Nimbin, Nimbidin
- Flavonoids: Quercetin
- Sterols:  $\beta$ -sitosterol
- Other Compounds: Gedunin, Salannin, Tannins, Glycoside

## **Therapeutic Effect:**

- **Antimicrobial:** Strong antibacterial, antifungal, and antiviral activity
- **Antidiabetic:** Helps regulate blood glucose levels

- **Anti-inflammatory: Reduces swelling and pain**
- **Skin Care: Effective in acne, eczema, psoriasis, and wound healing**
- **Dental Care: Used in toothpaste and mouth rinses for oral hygiene**
- **Insecticidal: Natural pesticide for agriculture**

## **Marketed preparation:**

- **Neem Oil: Used for skin, hair, and agricultural purposes**
- **Neem Capsules/Tablets: For blood purification and immunity**
- **Neem Powder: For skin disorders and digestive health**
- **Ayurvedic Formulations: Neem churna, creams, and herbal soaps**

## **Key Constituents:**

- **Azadirachtin – insecticidal and antimicrobial**

- Nimbin & Nimbidin – anti-inflammatory and antifungal
- Quercetin – antioxidant and antibacterial
- Gedunin – antimalarial properties

## **Uses:**

- Medicinal:
  - Treats skin diseases (eczema, acne, psoriasis)
  - Controls diabetes and boosts immunity
  - Oral hygiene (toothpaste, chewing twigs)
- Agricultural:
  - Natural pesticide and soil enhancer
- Cosmetic:
  - Used in shampoos, creams, and soaps
- Traditional:
- Neem twigs used as toothbrushes
- Neem leaves used in rituals and fumigation

