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UNIVERSITY

SARU





Synonym

- Gujarati: સરુ (Saru), શરુ (Sharu).
- Hindi: जंगली सरु (Jungli Saru), जंगली झाऊ (Jungli Jhau), झाऊ (Jhau), सुरु (Suru).
- English: Australian Pine, Beefwood, Coastal Sheoak.

Botanical name

- *Casuarina equisetifolia*

Family

- Casuarinaceae

Chemical Constituents

- Phenolic compounds
- Flavonoids
- Terpenes
- Tannins (high tannin content in bark)
- Alkaloids
- Proteins
- Condensed tannins (epicatechin)
- Hydrolysable tannins (gallic acid, procyanidin, casuarine)
- Other polyphenolic compounds

Therapeutic Uses

- Treats toothache, stomach ache, diarrhea, throat infections, microbial infections.
- Diabetes mellitus management.
- Anti-inflammatory, anti-cancer, anti-hypertensive, anti-arthritic, anti-hyperlipidemic activities.
- Antibacterial and antifungal properties.
- Used as an anti-spasmodic, anti-histaminic, gastroprotective, nephroprotective.
- Traditional use for improved oral hygiene by chewing roots.
- Used in liver disorders, muscular spasms, inflammation.

Marketed Preparations

- Extracts in methanol, ethanol, and aqueous forms used in pharmaceutical formulations
- Bark extracts used in synthesizing nanoparticles (green nanotechnology)
- Wood and bark used commercially in tanning, soap making, timber, paper pulp
- Used in agroforestry and for erosion control in coastal areas.