

## Prosopis cineraria (Shami)

### Botanical Classification:

**Kingdom:** Plantae

**Family:** Fabaceae

**Genus:** Prosopis



### Plant Description:

The 'king of the desert', commonly known as Khejri (*Prosopis cineraria*) grows predominantly in dry and arid regions, performs a vital role in preserving the ecosystem. All the parts of the plant are used for numerous medicinal purposes

It is also known as "Kalpatru" which means "the king of desert" due to its food, feed and medicinal value. Its tap root system can penetrate vertically to more than 20 m hence, *P. cineraria* is popularly referred to as the "wonder tree".

It is a tree and the length of the tree is up to 7 m with straight bole to height of 2m and a round crown resulting from a lopping for fodder.

### Geographical Distribution:

Khejri is worshipped by a number of communities. *Prosopis cineraria* is cultivated in a number of countries in all over the world but it is specially cultivated in western and southern Asia including Afghanistan, Iran, India, Oman, Saudi Arabia and Pakistan.

### Phytochemical Profile:

Patuletin Glycoside patulitrin, luteolin and rutin sitosterol, spicigerine, Flavone derivatives Prosogerin A and Prosogerin B Steroids like campesterol, cholesterol, sitosterol, stigmasterol, actacosanol, hentriacontane, methyl docosanoate, Diisopropyl-10,11-dihydroxyicosane 1,20-dioate, Tricosan-1-ol, and 7,24-Tirucalladien-3-one along with a piperidine alkaloid spicigerine Prosogerin C, Prosogerin D, Prosogerin E, Gallic acid, patuletin, patulitrin, luteolin, and rutin.

### Medicinal and Therapeutic Properties :

Antibacterial activity

Antihyperglycemic Activity

Antihyperlipidemic effect

Antidepressant effect

Skeletal Muscle relaxant

Bronchodilator activity

Vasodilatory activity

Anticancer activity

Analgesic activity

Antioxidant Activity