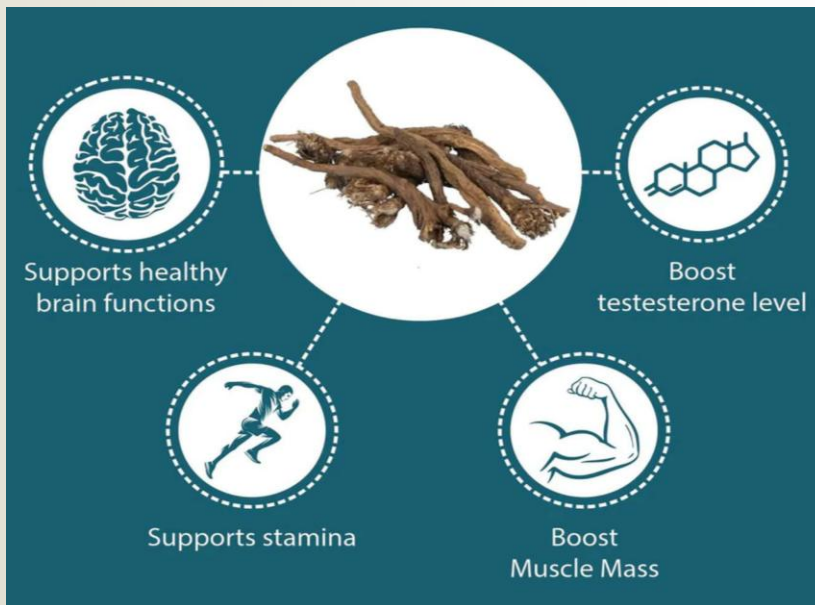


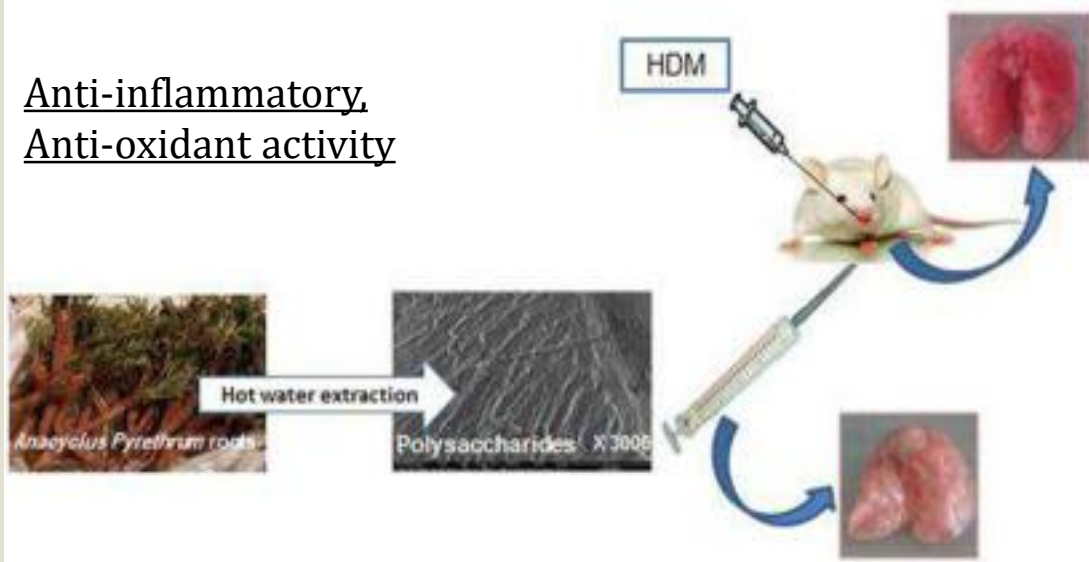
# Pellitory extract

- ❖ **Pellitory** (often referred to as **Pellitory root** or **Spanish chamomile**) is another name for the plant *Anacyclus pyrethrum*, which is otherwise also known as **Akarkara**.
- ❖ It is particularly valued for its medicinal properties and has been used for centuries for its potential to improve vitality, cognitive function, and overall health.
- ❖ The plant is native to parts of **India, North Africa, and Europe**, and it is often referred to as **Indian accacia** or **Pyrethrum**.



- ❖ **Plant Part Used:** The root of the plant is used medicinally. The root contains several active compounds that contribute to its health benefits.
- ❖ **Active Compounds:** Alkaloids (especially **anacyclines**), **pyrethrins**, and other bioactive compounds are present in the extract.
- ❖ The plant of Akarkara is ornamental and blooms in the spring season and is also consumed as a vegetable.

Anti-inflammatory  
Anti-oxidant activity

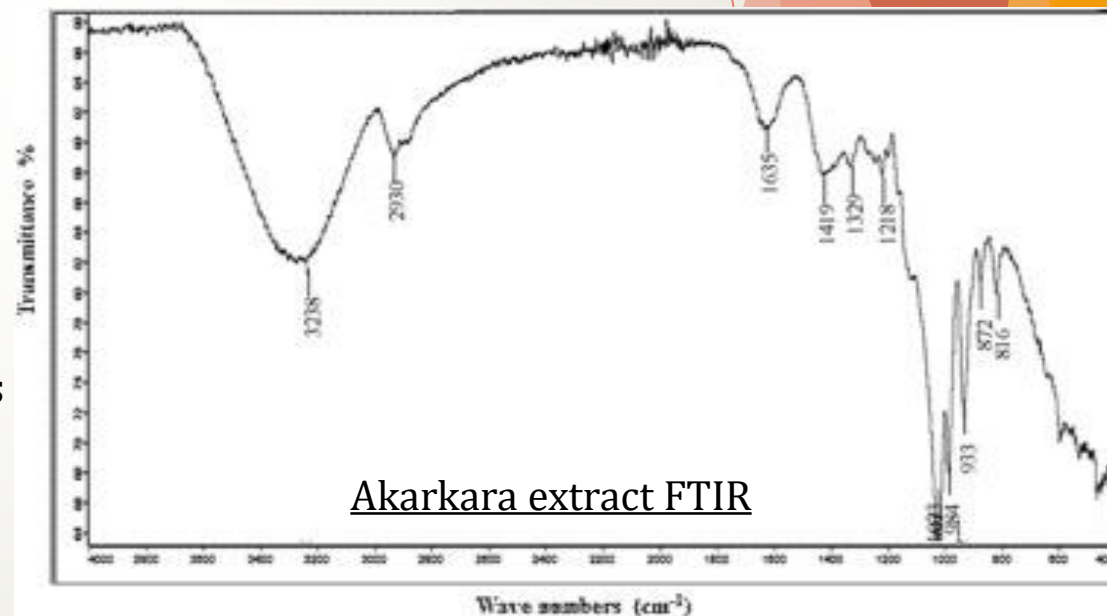


- The study aims to evaluate the antioxidant and anti-inflammatory activity of polysaccharides extracted from *Anacyclus pyrethrum* roots (APPS).
- The APPS were extracted using boiling water, separated from proteins by the Sevag method then precipitated with 90% ethanol. The antioxidant effect of crude APPS was evaluated using FTIR.
- The most common method for **Akarkara extract analysis** is **HPLC**, as it allows for **accurate identification** and **quantification** of the active compounds, such as **alkaloids** and **pyrethrins**, that contribute to its medicinal properties.

- **Key Health Benefits** - stimulant, neuroprotective, aphrodisiac, Sexual Health, Cognitive Enhancement, Anti-inflammatory and Pain Relief, Oral Health, Digestive Health, Anti-Aging and Skin Health.

## ❖ Analysis

- Identifying the **bioactive compounds** in **Akarkara** (*Anacyclus pyrethrum*) involves isolating and characterizing the chemical components responsible for the plant's medicinal properties.
- The primary bioactive compounds in Akarkara include **alkaloids**, **pyrethrins**, **flavonoids**, and **terpenoids**.





## ❖ Scientific Evidence

### Studies on Cognitive Function:

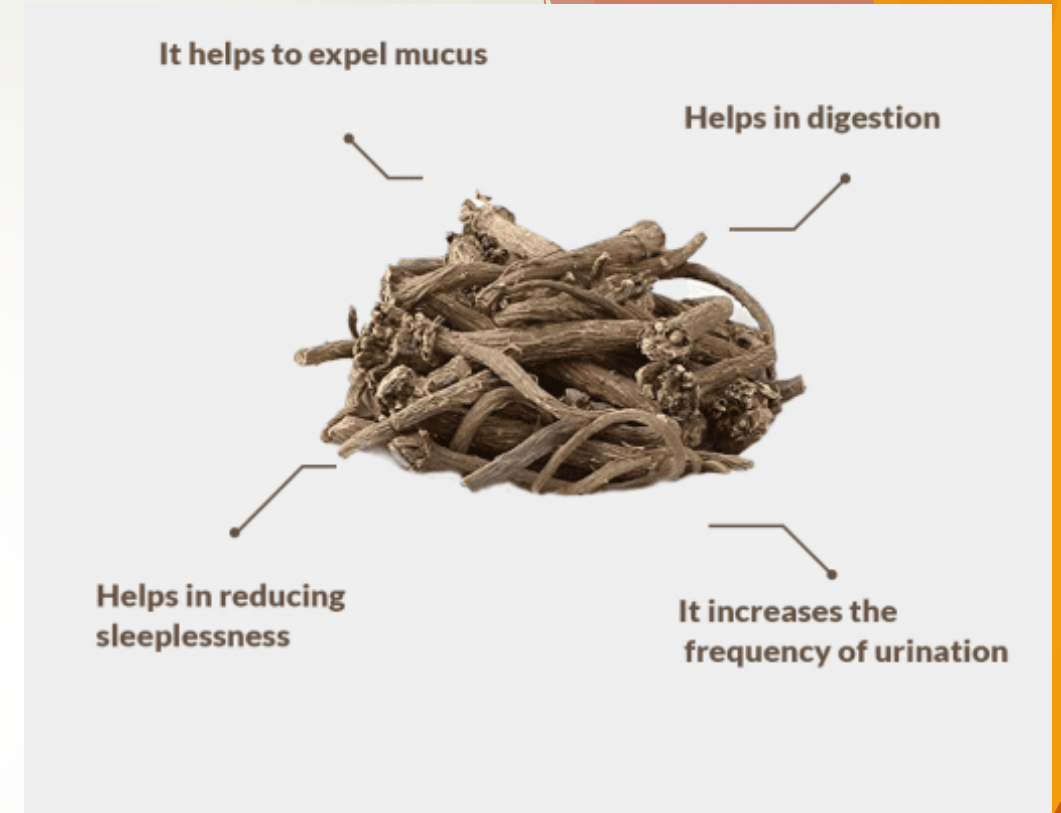
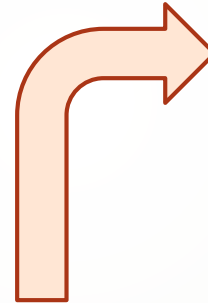
Research shows Akarkara may help improve cognitive function and memory due to its alkylamide compounds.

### Anti-inflammatory Properties:

Akarkara's active compounds show potential in reducing inflammation in clinical studies.

### Sexual Health Effects:

Studies suggest that Akarkara extract can enhance male sexual performance due to its aphrodisiac effects.



## ❖ Other studies on Akarkara

- **Combinative effects of akarkara root-derived metabolites on anti-inflammatory and anti-alzheimer key enzymes: integrating bioassay-guided fractionation, GC-MS analysis, and *in silico* studies**

*Anacyclus pyrethrum* L. (Akarkara root), a valuable Ayurvedic remedy, is reported to exhibit various pharmacological activities. Akarkara root was subjected to bioassay-guided fractionation, to isolate its active constituents and discover their potential bioactivities, followed by computational analysis.

- **CHEMICAL COMPOSITION AND MEDICINAL USES OF ANACYCLUS PYRETHRUM**

*Anacyclus pyrethrum* yielding pyrethrum drug is an important Ayurvedic herb with immense medicinal value. The plant as a natural pesticide and aphrodisiac and impotence stimulant is a popular medicine recognized by global pharmaceutical agencies and requires an efficient technology for its preservation and safer use. The use of modern scientific methods for mass production and conservation of the species is highly recommended.

- **PHARMACOGNOSTIC STANDARDIZATION OF ANACYCLUS PYRETHRUM LINN AND ITS BIOLOGICAL STUDIES.**

Despite the long history of traditionally used and clinically potential plant *Anacyclus pyrethrum* (Akarkara; family - Asteraceae) root parts, the plant has never been investigated systematically for the scientific phytochemical and biological studies till date. Thus, present investigation was envisaged to perform experiments to study phytochemical and biological activities. The various extracts and fractions were subjected to phytochemical screening. The complete profile of pharmacognostic standards of plant was established as per standardized procedures. The results revealed that the plant contain alkaloids, anthraquinone glycosides, carbohydrates, tannins and flavonoids.



# Certifications

