

# Study of the Anti-Inflammatory and Healing Properties of the Rhizomes of *Carthamus Caeruleus* L. (Asteraceae) Harvested in the Region of Tipaza

## Type of article: Conference abstract

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## Abstract:

**Background:** In some regions of Algeria, in Tipaza, natural medicine still occupies a place of choice in the treatment of many pathologies. Among these natural remedies are extracts of the rhizomes of *Carthamus caeruleus* L are used to treat burns with its astringent properties. Medicinal plant extracts contain a variety of phenolic compounds that are attributed to various biological activities (antioxidant and antimicrobial activity).

**Methods:** Our present study was conducted on the roots of *Carthamus caeruleus* L. harvested in the Tipaza region during the spring season. In order to promote this plant, we evaluated the anti-inflammatory activity and healing activity of the aqueous extract of the powder of the roots of *Carthamus caeruleus* L., studying the anti-inflammatory effect by measuring the volume of the edema of the paw that has received carrageenan 1%. Circular incision of 2 cm in diameter was made in Wistar rats to evaluate the healing activity of the aqueous pasty extract of the rhizomes of *Carthamus caeruleus* L at 100 mg/kg.

**Results:** They show that aqueous extracts of *Carthamus caeruleus* L rhizomes at the dose of 100 mg/kg are opposed to the increased edema induced by the carrageenan 1% in rats with a percentage of inhibition of edema volume of 87.34% at the 6th hour. Concerning the healing activity, the results show that the application of the aqueous extracts of the roots of *Carthamus caeruleus* L. at dose of 100 mg/kg on the wounds causes their healing at the end of 14 days.

**Conclusion:** Aqueous extracts of the roots of *Carthamus caeruleus* L. show healing properties and anti-inflammatory effects. These results could justify the use of this plant in traditional medicine against inflammatory diseases.

**Keywords:** *Carthamus Caeruleus* L. Rhizome Powder, Anti-Inflammatory Activity, Healing Activity.

## 1. Conflict of interest statement

This article is a conference abstract presented at the International Congress on Health Sciences and Medical Technologies, Tlemcen Algeria 5-7 December 2019, ICHSMT'19.

## 2. Authors' biography

No Biography.

## 3. References

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