

# Anti-inflammatory Activity of *Muntingia calabura* Fruits

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## ABSTRACT

*Muntingia calabura*, the sole species in the genus *Muntingia*, is a flowering plant, that belongs to Elaeocarpaceae family. This is a fast growing fruit tree. It is a pioneer species that thrives in poor soil, able to tolerate acidic and alkaline conditions and drought. The fruits are commonly called Jamaican cherry and are red in colour. The flowers are used as an antiseptic and to treat abdominal cramps and spasms. It is also taken to relieve headaches and colds. *Muntingia calabura* fruits possess antioxidant property. However, their anti-inflammatory activity has not been investigated so far. The aim of this study, therefore, was to evaluate the anti-inflammatory activity from the fruits of *M. calabura*. The methanolic fruit extracts (100, 200 and 300 mg/kg i.p.) reduced the Carrageenan-induced edema of the hind paw of adult male Wistar Albino rats in 3 hours. The activity was compared with that of the standard drug indomethacin. Acute toxicity was investigated and the results indicated no abnormalities in the behaviour and lethality by the extract up to 1000 mg/kg. These results indicate the fruit extract of *M. calabura* possess potent anti-inflammatory activity. Therefore, these pharmacological results clearly support traditional folkloric application of *M. calabura* fruits in the control and/or pain, inflammatory illness as well as an antioxidant agent.

**Key words:** *muntingia calabura* fruits; elaeocarpaceae; anti-inflammatory; antioxidant activity

## INTRODUCTION

Plants are potent biochemical factories and have been components of phyto-medicine. Since time immemorial man is able to obtain from them a wondrous assortment of industrial chemicals. Plant-based natural constituents can be derived from any part of the plant like bark, leaves, flowers, roots, fruits, seeds, etc., that is, any part of the plant may contain active components.<sup>[1]</sup>

The protective effect of fruits and vegetables has generally been attributed to their antioxidant constituents, including vitamin C (ascorbic acid), Vitamin E (tocopherol), carotenoids, glutathione, flavonoids and phenolic acids, as well as other unidentified compounds.<sup>[2]</sup>

Various herbal medicines derived from plant extracts are being used in the treatment of a wide variety of clinical diseases, though relatively little knowledge about their

mechanism of action is known.<sup>[3]</sup> Many herbal preparations are being prescribed widely for the treatment of inflammatory conditions.<sup>[4]</sup> There is a need for research and developmental work in herbal medicine because apart from the social and economic benefits, it has become a persistent aspect of present day health care in developing countries.

Plant secondary metabolites have provided an important source of drugs since ancient times and now around half of the practical drugs used are derived from natural sources.<sup>[5]</sup>

Some research has shown that flavonoid compounds are present in various plants; exert beneficial effects on human health such as cardiovascular protection, anti-cancer activity, antinociceptive activity and anti-inflammatory effects.<sup>[6-10]</sup>

It is known that there are links between the inflammatory and nociceptive, oxidative and cancer processes. The ability to inhibit any of the processes will definitely lead to the inhibition of the others.<sup>[11]</sup>

Water soluble extract from leaves of *M. calabura* produced potent antinociceptive and anti-inflammatory activities. The preliminary phytochemical analysis performed in *M. calabura* leaves showed the presence of flavonoids, chalcones, terpenoids and phenolic compounds. The constituents responsible for the analgesic and anti-inflammatory effects of *M. calabura* have not yet been elucidated.<sup>[12]</sup>

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# Anti Inflammatory Activity Of Muntingia Calabura Fruits

**Puja Mehta**



## **Anti Inflammatory Activity Of Muntingia Calabura Fruits:**

## Reviewing **Anti Inflammatory Activity Of Muntingia Calabura Fruits**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Anti Inflammatory Activity Of Muntingia Calabura Fruits**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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