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*Basic Study*

Acetoclofenac-induced hepatotoxicity: An ameliorative effect of Terminalia bellirica fruit and ellagic acid

Ashutosh Gupta, Abhay K. Pandey

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The **fruit** contains tannin,  $\beta$ -sitosterol, gallic **acid**, **ellagic acid**, ethyl gallate, chebulic **acid** etc. in various proportions (Sharma et al., 2010). A survey of literature revealed that no scientific study on the cardio-protective **effect** has been reported on T. **bellirica**.

**Author:** Rahul Chaudhary, Richa Singh, Rajee... **Publish Year:** 2020

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Another study on LPS-stimulated RAW 264 macrophages demonstrated that T. **bellirica** fruit aqueous extract, pure gallic **acid** and **ellagic acid** separately inhibited the expression of inflammatory mediator expression. **Fruit** aqueous extract significantly reduced LPS-induced mRNA expression of TNF- $\alpha$ , IL-1 $\beta$ , IL-6, MCP-1, iNOS, and class A scavenger ...

**Author:** Ashutosh Gupta, Ramesh Kumar, Piy... **Publish Year:** 2020

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Background: Plants belonging to the genus *Terminalia* such as *Terminalia bellirica* and *Terminalia sericea* are used traditionally to treat several diseases and health disorders. Up to this date, the roots of *Terminalia sericea* and the fruits of *Terminalia bellirica* are the mostly studied plant parts. The phytochemical composition and the biological activities of the leaves of both species are

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1. Introduction. *Terminalia bellirica* is a deciduous tree that is common in Southeast Asia. In traditional Indian Ayurvedic medicine, the fruit of *Terminalia bellirica* is extensively used as a folk medicine for the treatments of diabetes, hypertension, and rheumatism [1]. The major polyphenolic components of the fruit are reported to be gallic acid, ellagic acid, and chebulagic acid [2].

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*Terminalia bellirica* (Gaertn.) Roxb. widely grows in Indian subcontinent, including Pakistan, Nepal, and South-East Asia. In India, it is popularly known as "Bahera" in Hindi,





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Author: Ashutosh Gupta, Ramesh Kumar, Piy...

Publish Year: 2020