

## Author's Accepted Manuscript

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PII: S0378-8741(16)31152-7  
DOI: <http://dx.doi.org/10.1016/j.jep.2016.10.009>  
Reference: JEP10467

To appear in: *Journal of Ethnopharmacology*

Received date: 25 February 2016  
Revised date: 2 September 2016  
Accepted date: 4 October 2016

Cite this article as: Pradeep Bhaskar Bhat, Shruti Hegde, Vinayak Upadhya, Ganesh R. Hegde, Prasanna V. Habbu and Gangadhar S. Mulgund, Evaluation of wound healing property of *Caesalpinia mimosoides* Lam, *Journal of Ethnopharmacology*, <http://dx.doi.org/10.1016/j.jep.2016.10.009>

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Evaluation of wound healing property of *Caesalpinia mimosoides* Lam.

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Abstract

*Ethnopharmacological relevance:*

*Caesalpinia mimosoides* Lam. is one of the important traditional folk medicinal plants in the treatment of skin diseases and wounds used by healers of Uttara Kannada district of Karnataka state (India). However scientific validation of documented traditional knowledge related to medicinal plants is an important path in current scenario to fulfill the increasing demand of herbal medicine.

*Aim of the study:*

The study was carried out to evaluate the claimed uses of *Caesalpinia mimosoides* using antimicrobial, wound healing and antioxidant activities followed by detection of possible active bio-constituents.

*Materials and Methods:*

Extracts prepared by hot percolation method were subjected to preliminary phytochemical analysis followed by antimicrobial activity using MIC assay. In vivo wound healing activity was evaluated by circular excision and linear incision wound models. The extract with significant antimicrobial and wound healing activity was investigated for antioxidant capacity using DPPH, nitric oxide, antilipid peroxidation and total antioxidant activity methods. Total phenolic and flavonoid contents were also determined by Folin–Ciocalteu, Swain and

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