

Studies in phytochemical investigation, anti bacterial activity and acute toxicity study of *Prosopis cineraria* pods

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- [R.K. Bajwa](#)
- [R.T. Sane](#)

Abstract

Pods of *Prosopis cineraria* are rich source of dietary fibers and proteins. The pods were extracted successively and individually with solvents of increasing polarity. The extracts were evaluated for the presence of phytoconstituents using paper 2D chromatography and high performance thin layer chromatography. Further identification was done using LC-MS-MS. The extracts of the pods were also tested for their antibacterial activity against gram positive and gram negative organisms. Acute toxicity study of extracted pods on albino swiss mice was conducted. It was observed that no significant toxicity was caused upto a dose level of 1g/kg body weight. A pilot pharmacokinetic study on New Zealand strain albino rabbit was also performed and T_{max} was observed at the second h using a phytomarker.

References

Gupta, M. C., B. M. Gandhi and B. N. Tandon. 1974. Unconventional legume *Prosopis cineraria*. Am J. Clin. Nutr. 17:1035-1036.