

Article

# In vitro screening of ninety-five plant extracts for inhibition of Clostridium histolyticum collagenase and Bacillus polymyxa metalloprotease- analogous human MMPs

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Authors:



**Bhimrao Jaiwal**  
Dr. Babasaheb Ambedkar Marathwada U...



**Faiyaz Shaikh**  
Pravara Institute of Medical Sciences Uni...



**Sarwan W. Bradosty**



**Ajit B. Patil**

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## Abstract

**Introduction and Aim:** Matrix metalloproteinases (MMPs) are involved in many human diseases. Medicinal plants and their different constituents are utilized as therapeutic agents. In the present work we report the total phenolics content and screening of ninety five plant extracts for inhibitory activities against Clostridium histolyticum collagenase (ChC) and Bacillus polymyxa metalloprotease (BpM). **Materials and Methods:** Total phenolics content from plant methanolic extracts were assessed using Folin-Ciocalteu assay. Screening of plant extracts for ChC and BpM inhibitory activities was performed using dot blot assay on X-ray film. **Results:** G. superba fruit was observed to have the highest phenolics ( $257.58 \pm 0.75$  mg GAE /g tissue) content while C. nurvala stem was observed to have the lowest phenolics

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