

19-20



INDO AMERICAN JOURNAL OF PHARMACEUTICAL RESEARCH



FORMULATION AND EVALUATION OF ANTIBACTERIAL GEL USING LEAF EXT OF ANDROGRAPHIS PANICULATA

Rashmi D. Zode*, C.M Chakole
Bajiraoji Karanjekar college of pharmacy, Sakoli.

ARTICLE INFO

Article history
Received 11/05/2020
Available online
30/06/2020

Keywords

Acne,
Extract,
Gel,
Herbal,
Andrographis Paniculata,
Staphylococcus Aurens.

ABSTRACT

Andrographis Paniculata is an annual herbaceous plant in the family of acanthaceae in India and Shrilanka. Andrographis Paniculata has shown anti-bacterial property which it an essential herb in the treatment of various infections. This study was to check effectiveness of Andrographis Paniculata against the microbial species Staphylococcus aureus, to observe the zone of inhibition and to develop a topical gel formulation of Andrographis Paniculata for the treatment of acne. The extraction was done by maceration method and continues with phytochemical screening and herbal gel formulation using hydroxypropyl methyl cellulose as a base with different concentration 2%v/v, 4%v/v and 8%v/v. The gel was evaluated for the physical appearance, pH, homogeneity and antibacterial activity. Different concentration of Andrographis paniculata methanolic extract exhibited relatively good antibacterial activity. It was concluded that the gel formulation having higher concentration (8%) is found to be good consistency compared to 2%, 4% and 6%v/v and can be used to treat the antibacterial activity.

Corresponding author

Rashmi D. Zode
Bajiraoji Karanjekar College of Pharmacy,
Sakoli
rashmizode@gmail.com



[Signature]
Officiating Principal
Bajiraoji Karanjekar
College of Pharmacy, Sakoli