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Article Id: JPRS-ND-00002039
Title: The determination of qualitative composition of Hosta plantaginea and Hosta lancifolia plant raw material
Category: Natural Drugs
Section: Research Article
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Article Id: JPRS-PHDRS-00002003
Title: Botanical study and DNA fingerprinting of
 Egypt
Category: Pharmacognosy and Herbal Drugs related
Section: Research Article
Country: India

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Article Id: JPRS-Pe-00002005
Title: Dental management of patients receiving a
Category: Periodontics
Section: Review Article
Country: India

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Article Id: JPRS-PA-00002006
Title: Characterization of cellulose from jackfruit
Category: Pharmaceutical Analysis
Section: Research Article
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Article Id: JPRS-MB-00002007
Title: Isolation and identification of biosurfactant
Category: Microbiology
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Article Id: JPRS-QA-00002021
Title: Chemical hazards and safety management
Category: Quality Assurance
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Journal: Journal of Pharmacy Research , Volume: 1



Article Id: JPRS-PC-00002002
Title: Chemical constituent and antioxidant activity of *Aspergillus roxburghii* rhizome
Category: Pharmaceutical Chemistry
Section: Research Article
Country: India

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Journal: Journal of Pharmacy Research , Volume: 1



Article Id: JPRS-PCS-00002000
Title: Microbiological researches of rectal support and prostate gland
Category: Pharmaceutics
Section: Research Article
Country: India

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Journal: Journal of Pharmacy Research , Volume: 1



Article Id: JPRS-MB-00002001
Title: Evaluation of wound healing property of *Propolis*
Category: Microbiology
Section: Research Article
Country: India

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Journal: Journal of Pharmacy Research , Volume: 12, Issue: 3.



Article Id: JPRS-PCS-00002010
Title: A simple liquid chromatographic method for simultaneous determination of aceclofenac, n salicylate, and benzyl alcohol in pharmaceuticals
Category: Pharmaceuticals
Section: Research Article
Country: India

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Journal: Journal of Pharmacy Research , Volume: 12, Issue: 3.



Article Id: JPRS-NTTM-00002011
Title: Phytochemicals and cytotoxicity of sausage fruit (*Kigelia africana*) extract against breast c cells MCF-7 in vitro
Category: Natural Treatment of Traditional Medicine
Section: Research Article
Country: India

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Journal: Journal of Pharmacy Research , Volume: 12, Issue: 3.



Article Id: JPRS-PRGS-00002012
Title: The potential activity of ethanolic extract from ant- nest plant (*Myrmecodia pendens* Merr. Perry) against hyaluronic acid and essential oils of plant-resistant *Staphylococcus aureus*
Category: Pharmaceutical and Related General Science
Section: Research Article
Country: India

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Journal: Journal of Pharmacy Research , Volume: 12, Issue: 3.



Article Id: JPRS-P'CoI-00002013
Title: Anti-obesity activity of *Vitis vinifera* by butter and progesterone induced models
Category: Pharmacology



method for the determination of acebrophylline and doxofylline in bulk and combined dosage form

Category: Pharmaceutical Chemistry

Section: Research Article

Country: India

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Journal: Journal of Pharmacy Research , Volume: 12, Issue: 3.



Article Id: JPRS-PC-00002019

Title: Three-dimensional quantitative structure activity relationship studies of amino pyrazolines Schiff base derivatives

Category: Pharmaceutical Chemistry

Section: Research Article

Country: India

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Journal: Journal of Pharmacy Research , Volume: 12, Issue: 3.



Article Id: JPRS-MB-00002020

Title: Study on antibiotic sensitivity of chromium tolerant bacteria isolated from chromite mine area

Category: Microbiology

Section: Research Article

Country: India

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Journal: Journal of Pharmacy Research , Volume: 12, Issue: 3.



Article Id: JPRS-QA-00002023

Title: A single method for the determination of drug content in diversified drug substance and dosage forms by reverse-phase high-pressure liquid chromatography

Category: Quality Assurance

Section: Research Article

Country: India

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Journal: Journal of Pharmacy Research , Volume: 12, Issue: 3.



Article Id: JPRS-P'Col-00002035
Title: Rice bran oil consumption: Cardiovascular disease and obesity risk reduction
Category: Pharmacology
Section: Review Article
Country: India

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Journal: Journal of Pharmacy Research , Volume: 12, Issue: 3.



Article Id: JPRS-PHDRS-00002041
Title: A review on ethnomedicinal, phytochemical, and pharmacological significance of Terminalia sericea Burch. Ex DC.
Category: Pharmacognosy and Herbal Drugs related study
Section: Review Article
Country: India

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The potential activity of ethanolic extract from ant-nest plant (*Myrmecodia pendens* Merr. and L.M Perry) against hyaluronic acid and essential oils of plant-resistant *Staphylococcus aureus*

Sri Agung Fitri Kusuma*, Sulistyaningsih Sulistyaningsih, Devita Fauzia

ABSTRACT

Aim: The objective of this study was to evaluate the antibacterial activity of ant-nest plant ethanol extract against *Staphylococcus aureus* clinical isolates and determined its minimum inhibitory concentration (MIC). **Materials and Methods:** The simplisia of ant-nest plant was extracted using a maceration method. The phytochemical screening was conducted using standard methods. The antibacterial activity was done by the agar diffusion method using chlorhexidine gluconate as comparative drug. The MIC test was done by a macrodilution method and following by subculturing the overnight result onto the surface of agar media. **Results and Discussion:** Phytochemical screening revealed the presence of polyphenols, flavonoids, tannins, and saponins. Antibacterial activity of ant-nest extract exhibited the anticaries activity against *S. aureus* clinical isolates in terms of inhibitory zone formation. The chlorhexidine gluconate in a concentration of 0.025 %w/v had given inhibition effect to all *S. aureus* isolates. The MIC value of ant-nest extract was ranging at concentrations of 0.825–1.75% w/v. **Conclusion:** The ethanolic extract of ant-nest plant potent for *S. aureus* that had been resistant against hyaluronic acid and essential oils of plant.

KEY WORDS: Ant nest, Caries, Hyaluronic acid, essential oil, Minimum inhibitory concentration, *Staphylococcus aureus*

INTRODUCTION

Dental caries is a one of the most common infectious diseases in Indonesia. Based on survey data in 1994, the prevalence of dental caries disease in West Java Provinces achieved 78.9% with decayed, missing, and filled-teeth of 5.74. Dental caries and other oral infections are commonly caused by dental plaque. Plaque is a biofilm layer composed of microorganism cells that colonize on the tooth surface.^[1] Oral bacteria can cause caries at stagnant sites due to the action of acids produced by the bacteria. The organic matrix of the tooth was the initial component to be attacked.^[2]

Microorganisms presented in dental plaque include the genus of Streptococcus (*S. mutans*, *S. sanguis*, *S. viridans*, and *S. salivarius*), various types of actinomyces (*A. viscosus*, *A. naeshundii*,

and *A. israelii*), and *Staphylococcus aureus*. In supragingival plaque, the existence of aerobic bacteria (62.3%) was higher when compared with anaerobic bacteria (37.7%). Bacteria commonly found in supragingival plaque are Gram-positive aerobic coccus bacteria, such as *S. aureus* and Streptococcus.^[3] *S. aureus* is commonly found on the surface of the skin, mucous membranes, saliva, and the surface of human teeth. *S. aureus* is the most dangerous of all of the many common staphylococcal bacteria. If *S. aureus* in dental plaque entered the bloodstream, it could spread to various parts of the body and caused infection such as endocarditis, osteomyelitis, and skin syndrome.^[4] When it inhaled into the lungs, it can cause respiratory tract infections such as pneumonia, bronchitis, and chronic obstructive lung disease.^[5]

The treatment using mouthwash is administered to inhibit the growth of oral bacteria on the tooth surface. The common active ingredients of such mouthwash are quaternary ammonium compounds, bisguanide, povidone iodine, oxygenase material, and

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Department of Biology Pharmacy, Faculty of Pharmacy, Padjadjaran University, Sumedang, West Java 45363, Indonesia

*Corresponding author: Sri Agung Fitri Kusuma, Department of Biology Pharmacy, Faculty of Pharmacy, Padjadjaran University, Sumedang, West Java 45363, Indonesia. Phone: 06281573923200. E-mail: s.a.f.kusuma@unpad.ac.id

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