

Resubmission of submitted manuscript after minor correction.

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Research Journal of Pharmacy and Technology

Paper ID: 211017152502233431 Date of Submission: 17-Oct-2021

Paper Title: Identification of active compound and antibacterial activity against gram-positive and gram-

negative bacteria of Chromolaena odorata leaf extract Authors: Zainab; Nurlailah; Muhammad Ikhwan Rizki

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Authors: Zainab; Nurlailah; Muhammad Ikhwan Rizki

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Thanks for submission of your article. You have following comments from Dwi Rizki Febrianti for your submitted article titled "Identification of active compound and antibacterial activity against gram-positive and gram-negative bacteria of Chromolaena odorata leaf extract"

Date: DD-Dec-YYYY, 07:02 AM

COMMENTS:

the development of natural ingredients as antibacterials has developed, this manuscript has proven that the preparation of natural ingredients is able to become an antibacterial alternative

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Dear the Editor

I am Zainab from Indonesia.

We already submitted our revised manuscript for the first round on 16 December 2021.

We would like to ask regarding our progress.

Paper ID: 211017152502233431

Title: Identification of active compound and antibacterial activity against gram-positive and gram-negative bacteria of Chromolaena odorata leaf extract

We are so glad if we could get information about our manuscript.

Thank you so much

Best Regards

Zainab



Research Journal of Pharmacy and Technology Monika Daharwal <editor.rjpt@gmail.com>

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Dear Author,

Thanks for information. We will update u soon.

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Dear Author(s),

Editorial board has considered your article titled "Identification of active compound and antibacterial activity against gram-positive and gram-negative bacteria of Chromolaena odorata leaf extract". for publication in Year : 2022, Vol: 15, Issue: 10.You are requested to send the final version of your article by clearly mentioning the Paper Title and Author(s) name, affiliation and email address in proper sequence.

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Date: February 05, 2022 Research Journal of Pharmacy and Technology Paper ID:211017152502233431



Author's Name:Zainab, Nurlailah, Muhammad Ikhwan Rizki
Paper Title: Identification of active compound and antibacterial activity against gram-positive and gramnegative bacteria of Chromolaena odorata leaf extract

Acceptance of Manuscript

With reference to your article titled 'Identification of active compound and antibacterial activity against gram-positive and gram-negative bacteria of Chromolaena odorata leaf extract' Author by Zainab, Nurlallah, Muhammad Ikhwan Rizki. We wish to bring to your kind notice the following:

- · We acknowledge the receipt of the above mentioned article.
- · The above mentioned article has been sent to the reviewer of expert comments.
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Thanking you for submission of manuscript.

Yours sincerly.

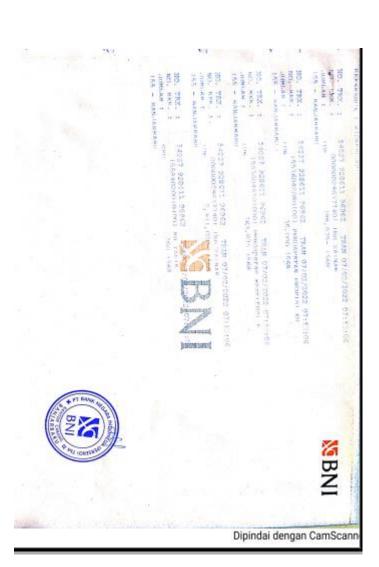


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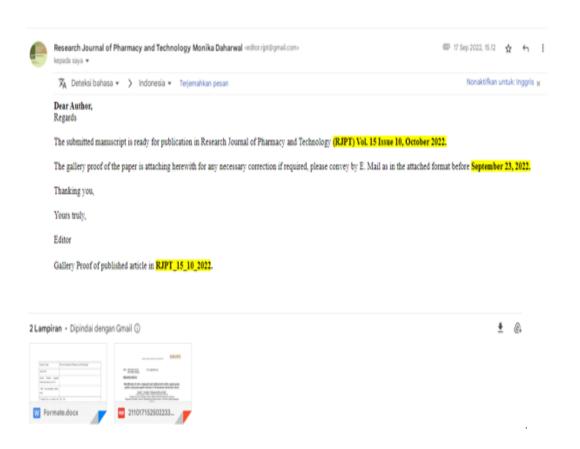
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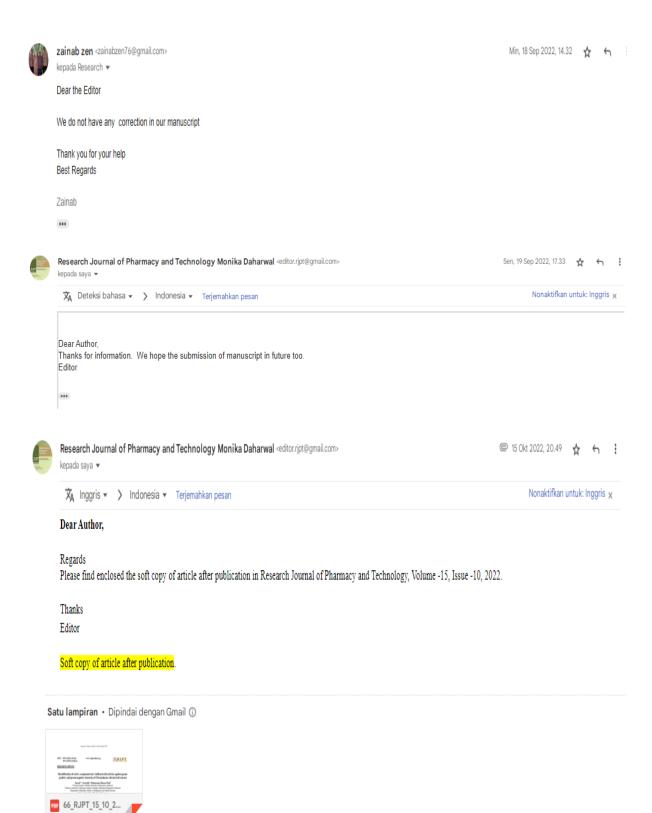
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RESEARCH ARTICLE

Identification of active compound and Antibacterial activity against grampositive and gram-negative bacteria of Chromolaena odorata leaf extract

Zainab10, Nurlailah2, Muhammad Ikhwan Rizki3 Zainab**, Nurfailah*, Muhammad Ikhwan Rizki*
*Nursing Program, Poltekkes Kemenkes Banjarmasin, Indonesia.
*Medical Laboratory Technology Program, Poltekkes Kemenkes Banjarmasin, Ind
*Department of Pharmacy, Faculty of Mathematics and Natural Sciences,
Universitas Lambung Mangkurat, Indonesia.

*Corresponding Author E-mail: zainabzen76@gmail.com

Antibacterial from natural ingredients, such as medical plants can be used as an alternative medicine. The aims of this study were to identify active compounds and antibacterial activity from the leaf extract of Chromolaena odorata, especially to against gram-positive bacteria and gram-negative bacteria. The methods of this study were making simplicia powder, extracting the leaves using ethanol, phytochemical screening using the tube method with specific reagents. Fractionated with chloroform and ethyl acetate and analyzed by Gas Chromatography-Mass Spectrometry (GC-MS) to identify the active compounds. Antibacterial activity used diffusion method. We also determined the minimum inhibitory concentration (MIC) and minimum kill concentration (MKC). The results of the chloroform fraction showed 14-Methyl-Pentadecanoic Acid; 9-Octadecanood; 2(2-12, 5-Ditacyclopentyl)-N-Propyl-3 Isopropanol, Bis (dichloromethyl)-ether. The results on the ethyl acetate fraction were 4-oxopentanoid acid or Levulinic acid; 4, 4- dicutero-hepten-1-ol; 1, 2, 2-trichloro-1, 1-difluoromethane; and 1-ethyl-2-methyl-3-oxobeksanoic acid. In addition, inhibition zone leaf extract 10% w/v against S. piplermidis 18.44 mm; S. mutaus 19.32 mm; S. aureus 19.50 mm; P. aeruginosa 12.70 mm; E. coli 0.00 mm; and S. thypi 0.00 mm, MIC of Saureus, Sanutaun, S. epidermidis, and P. aeruginosa Were 6250 ppm, 6250 ppm, 1562.5 ppm, and 9375 ppm, respectively. MKC of Saureus, S. mutaus, S. epidermidis, and P. aeruginosa were 6250 ppm, 1562.5 ppm, and 12500 ppm, respectively. The conclusions of this study were the leaf extract of Chromolaena odorata contained terpenoid, phenolic and flavonoid. Antibacterial activity of this extract showed strong activity on S. aureur, S. mutaus, S. epidermidis, and P. aeruginosa bacteria.

KEVWORDS: Antibacterial. Gromolaena odorata. End extract. GC-MS. MIC. MKC. Antibacterial from natural ingredients, such as medical plants can be used as an alternative medicine. The aims

KEYWORDS: Antibacterial, Chromolaena odorata, leaf extract, GC-MS, MIC, MKC.

INTRODUCTION:

INTRODUCTION:

Antibiotic-resistant bacteria are a global problem in the world, including Indonesia. This condition has occurred because of lack of research. It is necessary to explore antibacterial from natural ingredients, such as medical plants. Further, it can be used as an alternative medicine due to effectiveness, safety considerations, as well as the cost^Q.

Received on 17,10,2021 Modified on 25,12,2021 Accepted on 05.02.2022 C RJPT All right reserved Research J. Pharm. and Tech 2022; 15(49):4728-4726. BOI: 10.527119974-369X.2022.00793 Indonesia has the second biggest which has medical plants in the world. The natural wealth of Indonesian medicinal plants consists of 25,000 and 30,000 species*. medicinal plants consists of 25,000 and 30,000 species."
Medicinal plants have been used since ancient time and
can be used for treatment the disease. One of the plants
used for alternative medicine is Chromolomo odorato,
called kelambu menjangan in Kalimantan island,
Indonesia. Chromoloma odorato leaf is used to treat
skin disease, such as Propionibacterium acnes, antiinflammatory, analysis, antioxidant, antifungal, as well
as antibacterial effects. Previous study mentioned that leaf extract Chromolana odorata has antibacterial activity against Staphylococcus aureus^{8,8}. However, there is still limited reference in terms of antibacterial activity against the others bacteria.