



e-ISSN 2087-6090
p-ISSN 2087-7099
Volume 6 Issue 2
July-December 2022

Journal of Tropical Pharmacy and Chemistry

Pharmaceutical, Chemistry, and Allied Sciences

 **DOAJ** DIRECTORY OF
OPEN ACCESS
JOURNALS

 **Crossref**

 **SINTA**
SARANA INFORMATIKA
TEKNOLOGI DAN KOMUNIKASI

 **Google**
Scholar

 **MORAREF**

 **BASE**
Bielefeld Academic Search Engine

PKP|INDEX

 **CiteFactor**
Academic Scientific Journals

 **Dimensions**

 **GARUDA**
SARANA RUJUKAN DIGITAL

 **Scilit**

 **OCLC**
WorldCat®

 **Microsoft®**
Academic Search Beta

INDEX COPERNICUS
INTERNATIONAL

 **Keio University**
Libraries

 **Hinari**
Research for Health

 **ROAD**
RESEARCH FOR OPEN ACCESS
DIGITAL JOURNAL

Publisher:
Fakultas Farmasi, Universitas Mulawarman
Samarinda, Kalimantan Timur,
INDONESIA

J. Trop. Pharm. Chem.	Volume 6	Issue 2	Page 88-189	Samarinda December 2022	p-ISSN 2087-7099	e-ISSN 2407-6090
------------------------------	--------------------	-------------------	-----------------------	-----------------------------------	----------------------------	----------------------------



e-ISSN 2087-6090
p-ISSN 2087-7099
Volume 6 Issue 2
July-December 2022

Journal of Tropical Pharmacy and Chemistry

Editorial Information

Journal Policy

Faculty of Pharmacy UNMUL and the editors are not responsible for any statements and views expressed author of the script.

Manuscript Submission

Journal of Tropical Pharmacy and Chemistry is an OJS-based journal, manuscripts are sent via the website by registering as users to the website <https://jtpc.farmasi.unmul.ac.id/index.php/jtpc/about/submissions>. The submitted manuscript will be selected by an expert editor on the scientific worthiness of the manuscript information and conformity to the field of science required by Journal of Tropical Pharmacy and Chemistry.

Journal of Tropical Pharmacy and Chemistry

Journal of Tropical Pharmacy and Chemistry (J. Trop. Pharm. Chem.) *e-ISSN 2087-6090*, *p-ISSN 2087-7099*, published bianuall by the Faculty of Pharmacy, Mulawarman University.
Address: Gedung Administrasi Fakultas Farmasi Jl. Penajam, Kampus Unmul Gunung Kelua, Kota Samarinda, Kalimantan Timur.



p-ISSN: 2087-7099
e-ISSN: 2407-6090
Volume 6 Issue 2
July-December 2022

Journal of **Tropical Pharmacy and Chemistry**

Table of Content

From Editor

Front cover, Editorial information, Table of Content, List of Indexing, Back Cover i-xvi

Articles

- **6,7-dimethoxydihydrocoumarin Compound from Ethyl Acetate Extracts from Steambarks *Dysoxylum Alliaceum* and Cytotoxic Activity Against P-388**
Ois Nurcahyanti, Kartika Rahma 88-91
- **Genistein Content and Tyrosinase Inhibitory Activity of Edamame (*Glycine max*) Extracts**
Indah Yulia Ningsih, Lisa Kusuma Wardhani, Annisa Ragdha Eka Nuryuanda,
Endah Puspitasari, Mochammad Amrun Hidayat 92-100
- **Student Self-Medication Behavior in Stress Handling**
Risna Agustina, Ronny Lesmana, Neily Zakiyah, Siti Nuriyatus Zahrah,
Ajeng Diantini 101-106
- **Assessment of Physico-Chemical Properties of Drinking Water in District Mardan, Khyber Pakhtunkhwa, Pakistan**
Sayed Suliman Shah, Dawood Shah, Mujahid Islam, Wajahat Ali 107-119

- **Antithrombotic and Antioxidant Activities of Binahong [*Anredera cordifolia* (Ten.) Steenis] Leaf Ethanol Extract and Its Nanoemulsion Preparation in Swiss Webster Mice**
Maria Immaculata Iwo, Amirah Adlia, Silviyanita Isna Septila,
Yennie Agnes Pratama, Dicki Bakhtiar Purkon 120-132
- **HPLC-HRESI-MSn Characterization of Polyphenolic Compounds in the Stem Bark of *Chlorophora regia* A. Chev (Moraceae)**
James Oppong-Kyekyeku, Samuel Oppong Bekoe, Edmund Ekuadzi, John Nii
Adotey Addotey, Samuel Asare-Nkansah 133-143
- **Formulation and Stability Tests of Hair Tonic from Oil Palm (*Elaeis guineensis* Jacq.) Leaves Extract and Effectiveness in Protecting Hair**
Angga Cipta Narsa 144-153

Review

- **A Detail Review on Heart-Leaved Moonseed (*Tinospora cordifolia*) Medicinal Plant**
Vinotha Sanmugarajah, Gowri Rajkumar, P.A.H.R. Panambara, 154-166
- **The Potency of the Genus *Uncaria* from East Borneo for Herbal Medicine Purposes: A Mini-review**
Maria Almeida, Supriatno Salam, Agung Rahmadani, Helmi Helmi, Angga Cipta
Narsa, Sri Agung Fitri Kusuma, Sriwidodo Sriwidodo 167-176
- **Pharmacologically Active Secondary Metabolites from *Psoralea corylifolia***
Ni Putu Ariantari, Elizabeth S. P. Ratnasantasyacitta, 177-189



p-ISSN: 2087-7099
e-ISSN: 2407-6090
Volume 6 Issue 2
July-December 2022

Journal of **Tropical Pharmacy and Chemistry**

List of Indexing





p-ISSN: 2087-7099
e-ISSN: 2407-6090
Volume 6 Issue 2
July-December 2022

Journal of **Tropical Pharmacy and Chemistry**

Author Guidelines

A Brief Summary

Journal of Tropical Pharmacy and Chemistry abbreviated *J. Trop. Pharm. Chem.*, firstly published in 2010, is a six monthly published, open access, peer-reviewed, and online international pharmacy journal. Journal of Tropical Pharmacy and Chemistry aims to serve the updated scientific knowledge for international researchers in Pharmacy and Chemistry area.

Journal of Tropical Pharmacy and Chemistry is indexed in PKP Index, BASE, Google Scholar, SINTA, CrossRef, and DOAJ.

Journal of Tropical Pharmacy and Chemistry receives the publication article about research results, surveys, and literature reviews which is closely related to the field of pharmacy, health, chemistry and accepts review articles, original research articles and short communications only in English. The journal includes various fields of pharmaceuticals sciences such as Pharmacology and Toxicology, Pharmacokinetics, Community and Clinical Pharmacy, Pharmaceutical Chemistry, Pharmaceutical Biology, Pharmaceutics, Pharmaceutical Technology, Biopharmaceutics, Pharmaceutical Microbiology and Biotechnology, Regulatory Affairs and Pharmaceutical Marketing Research, and Alternative medicines. Peer-review system has been used in the selection of papers. The article published is the result of selection that has been approved by Editors Board. It also has never appeared in another publication.

For article layout example that would like to submit could be seen on the end of this document.

REQUIREMENTS AND WRITING FORMAT

General Requirement

The author who would like to submit manuscript to Journal of Tropical Pharmacy and Chemistry redaction should pay attention by following general requirement:

- The manuscript that written should related with subject of Pharmacy Science and Health.
- The manuscript is original article (never published in other journal) as sources from the result of review or research.
- Manuscript should be written in English.
- The manuscript accompanied with abstract.
- The manuscript accompanied with keywords.
- The delivery of manuscript accompanied with biography of author, such as name, institution address (affiliation), and email address.
- The manuscript sent via online submission in journal website which is <https://jtpc.farmasi.unmul.ac.id/index.php/jtpc/about/submissions>, with register by online as user.
- The received manuscript would be selected by editor. If necessary, the manuscript would be edited through consultation with author.

Format and Systematic

1. **The manuscript sent to journal redaction in form softcopy (Word), with format as follows:**
 - Paper size A4 (21 cm × 21.7 cm) with margin pages, left 3 cm, top 3.5 cm, right 2.5 cm, bottom 3 cm.
 - The written manuscript arranged with spacing 1 and format one column;
 - The title of manuscript and title of each main content written with bold type of fonts.
2. **The manuscript written with writing systematic as follows:**
 - Title (Times New Roman 12). The title should specific, clear, brief, informative, describing substance or content from writing, and can attract attention to read. Title should not be started with words “research/analysis/study”, except these words as main content.
 - Author name (Times New Roman 12). The author should use original name (not pseudonym) and not including title or degree. The author correspondence given asterik (*) sign.
 - Author affiliation (Times New Roman 12). Affiliation is an address institution which place of author working/study.
 - Correspondence (Times New Roman 12). Correspondence containing email address of correspondence author.
 - Abstract (Times New Roman 12). The content of abstract (Times New Roman 12). Abstract consist of main ideas, purposes, methods, results and/or the result of

review/research. Abstract written in form one paragraph, without references, without acronym, and without footnote. Abstract not written in form mathematics, questions, and presumptions. Abstract is not result of copy paste from sentences which have been in manuscript. The content of abstract should not excess of 200 words.

- **Keywords** (Times New Roman 12) and **keywords content** (Times New Roman 12). *Keywords should in English that suitable with thesaurus standard. The total of keywords minimum three keywords and maximum five keywords.*
- **Introduction** (Times New Roman 12). The content of introduction written with Times New Roman 12 font. All references which used in manuscript (as citation sources), must be in references part. References/cites use ordering Arabic number system by using bracket [number], examples [1] if one reference; [2], [3] if two references; [4], [5], [6] if three or more references in which order; and [1], [4], [7] for not ordered number. References/cites number arranged based on reference order which first time found in article.
- **Method** (Times New Roman 12). The content of method written with Times New Roman 12 font. Method is collection work from implementation of research, start from implementation ways of data recruitment until data analysis.
- **Result and Discussion** (Times New Roman 12). The content of result and discussion made in one unified whole and written with Times New Roman 12 font. Result is not raw data, however using data which was processed/analysed with method was setting. Discussion is result comparation that obtained with concept/theory already exist. The content of result and discussion including statement, table, picture, diagram, graphic, sketch, and etc.
- **Conclusion** (Times New Roman 12). The content of conclusion written with Times New Roman 12 font. Conclusion is overview from result of research has been conducted.
- **Acknowledgement** (optional) (Times New Roman 12). The content of acknowledgement written with Times New Roman 12 font.
- **Author Contribution** (Times New Roman 12). Write contribution from each author on manuscript has been made.
- **Etic** (optional) (Times New Roman 12). If using human and animal tested as research subject. Write number of etic from etic commission.
- **Conflict of Interest** (Times New Roman 12).
- **Funding statement** (Times New Roman 12).
- **Bibliography/References** (Times New Roman 12). The content of bibliography written with Times New Roman 12 font. References is source of reference which used as citation of writing manuscript. Writing references using Number rules example [1]. Writing and arranging of references should using *reference manager* application such as Mendeley or Endnote. If using application, please may submitted with file references which used.

3. Writing Table and Figure

- **Table title** (Times New Roman 12). The content of table written with Times New Roman 12 font. Table title written in the top of table. Table written continuously, examples Table 1, Table 2, Table 3, and so on. Table should be followed with table reference, if cited from other source.

- Figure Title (including diagram, graphic, chart, sketch, prototype, database) (Times New Roman 12). Figure title written in the bottom of picture object. Object written continuously, example Figure 1, Figure 2, Figure 3, and so on. Object should be followed with object reference, if cited from other source.
- The total of Table and Figure is 10. For examples the table is 2, so the Figure allowed maximum 8.

4. Writing Citation

Citation is idea or thought other author (or author itself in other work) that be created reference sources to cited without change the meaning. Writing citation in manuscript Journal of Tropical Pharmacy and Chemistry using system [Arabic number], examples [1] if one reference; [2], [3] if two references; [4], [5], [6] if three or more references in which order; and [1], [4], [7] for not ordered number. Writing and arranging of references should using *reference manager* application such as Endnote, Zotero, or Mendeley.

Example: Format Writing Citation Manuscript for Journal of Tropical Pharmacy and Chemistry

For facilitating and optimalizing service accreditation of scientific journal, Lembaga Ilmu Pengetahuan Indonesia applying technology information system that allowing access information by online [1].

Scientific periodicals are publication that published periodically in certain period that arranged according to the rule of scientific writing [2].

5. Writing Bibliography or References

Bibliography is all references or literatures source that be created citation of writing manuscript. Writing and arranging bibliography manuscript Journal of Tropical Pharmacy and Chemistry using rules Numbered (example [1] if one reference, [2], [3] if two references and [4], [5], [6] if three or more references which order, and [1], [4], [7] for not ordered number. Writing and arranging of references should using *reference manager* application such as Endnote, Zotero, or Mendeley.

References/cites number arranged based on reference order which first time found in article.

Example style of writing bibliography:

[1] Author, Year. Title. *Journal Name*. **Volume**. (Issue). Pages. (Reference style for journal). DOI

[2] Author, Year. Title. Publisher. Place (reference style for book)

[3] And soon.....

For article layout example that would be submitted could be seen on next pages.

Title of Paper in English
(Font Times New Roman, 12 pt, 1 Space, Centered, Bold)

First Author Name^{1,*}, Second Author Name², Third Author Name³, Fourth Author Name⁴,
and so on (name without title)

¹First Author Affiliation, **example:** Study Program of Pharmacy, Faculty of
Pharmacy, Universitas Mulawarman, Samarinda, Indonesia

²Second Author Affiliation

³Third Author Affiliation

⁴Fourth Author Affiliation.

*Correspondence email : author@email.com

Abstract

Font times new roman, 12 pt, 1 space, Justify text, 1 column, **maximum 200 words**. Font times new roman, 12 pt, 1 space, Justify text, 1 column, maximum 200 words. Font times new roman, 12 pt, 1 space, Justify text, 1 column, maximum 200 words. Font times new roman, 12 pt, 1 space, Justify text, 1 column, maximum 200 words. Font times new roman, 12 pt, 1 space, Justify text, 1 column, maximum 200 words.

Keywords: font times new roman, 12 pt, 3-5 words

1 Introduction

Times new roman font, 12 pt, 1 space, text alignment left and right, 1 column, citation arranged based on ordered citation found in article with using citation system number in bracket [], with numbering arabic number 1, 2, 3, and so on. The first citation found, given citation number 1, example citation become like this [1], and so on.

Writing manuscript cites (citation) use ordering [arabic number], examples [1] if one reference; [2], [3] if two references; [4], [5], [6] if three or more references in which order; and [1], [4], [7] for not ordered number. References/cites number arranged based on reference order which first time found in article.

2 Method

The part of method not copied directly from thesis.

Method is **collection work from implementation of research, start from implementation ways of data recruitment until data analysis.**

3 Result and Discussion

The content of result and discussion made in one unified whole. Result is not raw data, however using data which was processed/analysed with method was setting. Discussion is result comparison that obtained with concept/theory already exist.

Table and Figure should be referred to article manuscript, with total maximum is 10. For examples the table is 2, so the Figure allowed maximum 8.

Table line only horizontal line be allowed. Table number using numbering Arabic number 1,2,3, and so on, Times New Roman font, 12 pt, 1 space, see right samples on Table 1 and Table 2. Whereas, table not suitable with format could be seen on Table 3.

Otherwise with Figure, the numbering system like numbering on table. Figure number using numbering Arabic number 1,2,3, and so on, Times New Roman font, 12 pt, 1 space.

In this template, given some Figure samples to facilitate in understand Figure which become Journal of Tropical Pharmacy and Chemistry standard.

Look at example on Figure 1, Figure 2, Figure 3, and Figure 4, as well as Figure 5.

Example Figure not accepted on Journal of Tropical Pharmacy and Chemistry could be seen on Figure 6.

Figure 6 could be modified become Figure can be accepted on Journal of Tropical Pharmacy and Chemistry like as Figure 7.

Table 1 Example Table suitable with Journal of Tropical Pharmacy and Chemistry Format

Sample	Content (%)				
	Carbohydrate	Protein	Lipid acid	Vitamin	Water
1	Value	Value	Value	Value	Value
2	Value	Value	Value	Value	Value
3	Value	Value	Value	Value	Value
4	Value	Value	Value	Value	Value
And soon	Value	Value	Value	Value	Value

Table 2 The result of study X-ray diffraction and BIMEVOX neutron as temperature function.

No.	Oxide	Transition Temperature	Transition Phase	References
1.	BICOVOX	507 °C	$\gamma - \gamma'$	[8]
2.	BICEVOX	550 °C	$\beta - \gamma$	[9]
3.	BIHFVOX	400 °C	$\beta - \gamma$	[10]
4.	BIGAVOX	525 °C	$\beta - \gamma$	[11]

Table 3 Example Table will not accept in Journal of Tropical Pharmacy and Chemistry

Sample	Content (%)				
	Carbohydrate	Protein	Lipid Acid	Vitamin	Water
1	Value	Value	Value	Value	Value
2	Value	Value	Value	Value	Value
3	Value	Value	Value	Value	Value
4	Value	Value	Value	Value	Value
And soon	Value	Value	Value	Value	Value

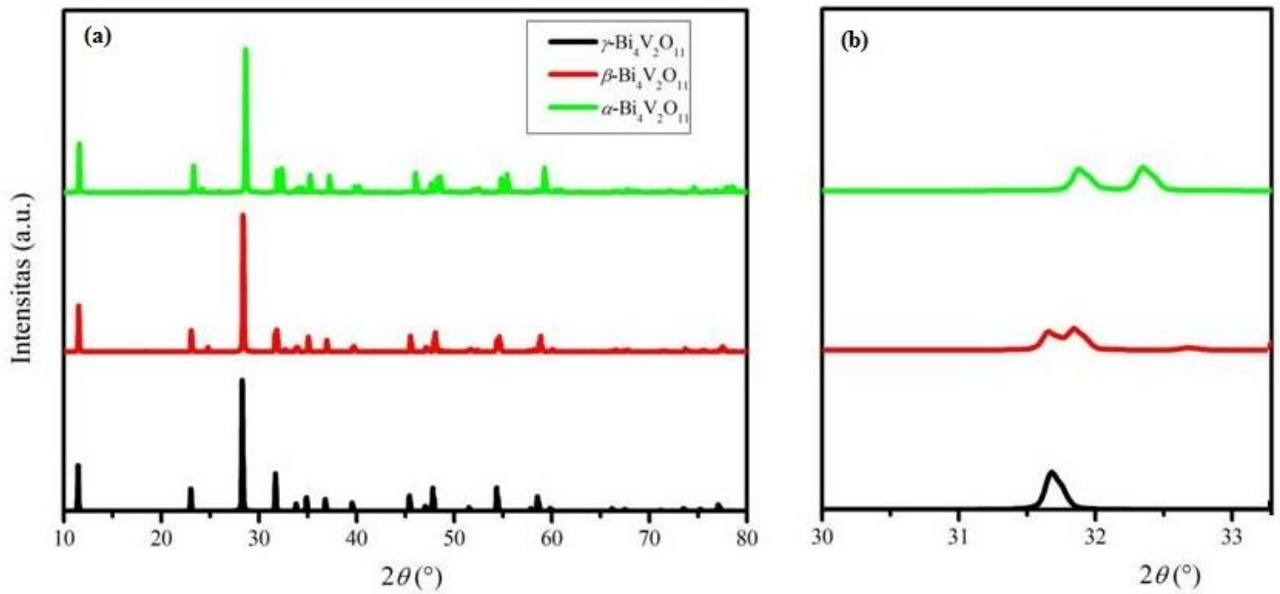


Figure 1 Pattern of X-ray diffraction polymorph oxide BIVOX on angle 2θ (a) 10-80° and (b) 30-33°. Specific peaks of diffraction polymorph α is on 2θ 31,7 and 32,32°, specific peaks of polymorph β is on 2θ 31,6 and 31,8°; whereas specific peak of polymorph γ is on 2θ 31,6°. Taken from [12].

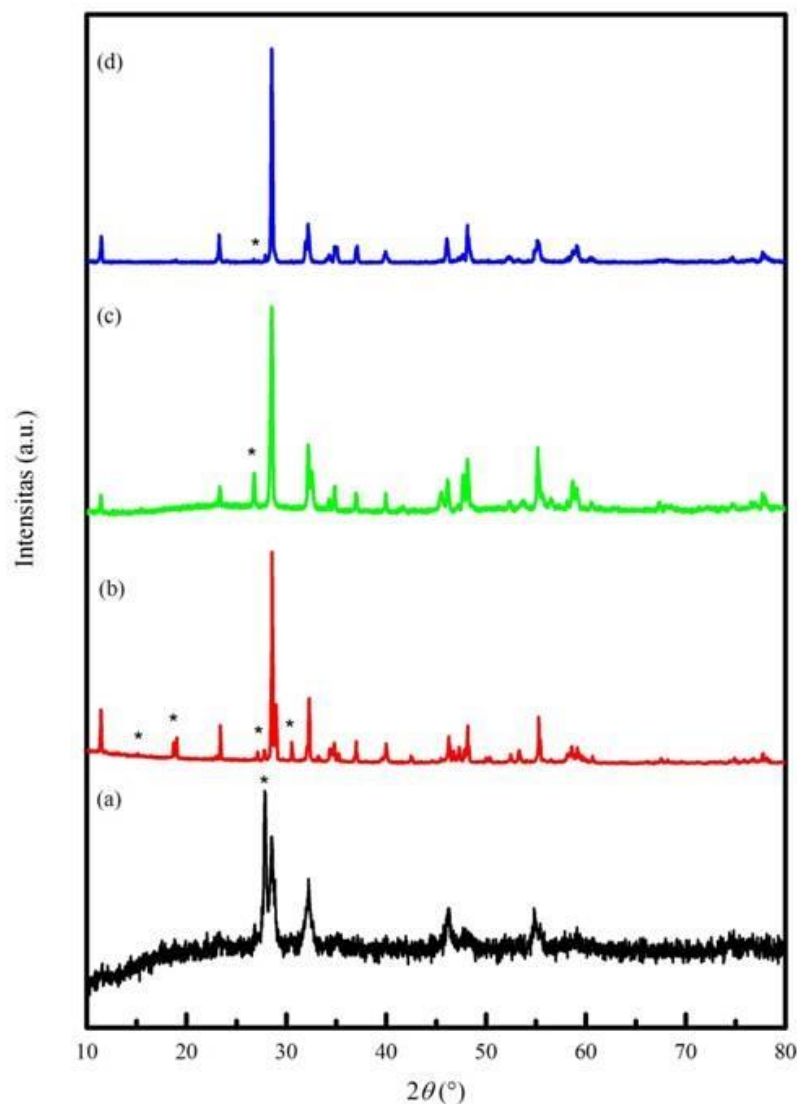


Figure 2 Pattern of oxide diffraction as synthesis result with using sol gel method on various condition that burned on temperature 800 °C, (a) ratio between citric acid as chelating and total mol of metal cation was used is 1 : 1 as well as pH 7, (b) ratio between citric acid as chelating and total mol of metal cation was used is 1 : 1 as well as pH 1-3, (c) ratio between citric acid as chelating and EDTA, (d) ratio between citric acid as chelating and ethylene glycol as well as total mol of cation as 1:1:1 in acid pH condition. Sign * showing some peaks besides BIMEVOX phase.

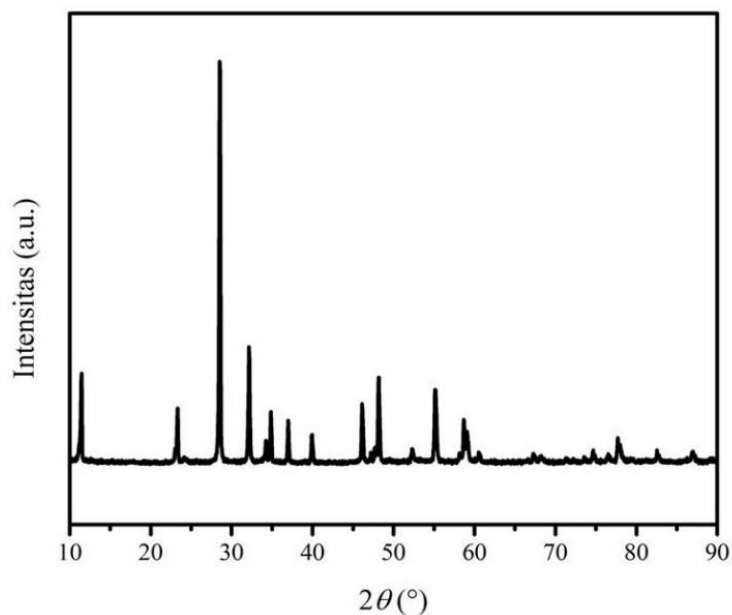


Figure 3 Pattern of X-ray diffraction of oxide powder $\text{Bi}_2\text{Zn}_{0.1}\text{V}_{0.9}\text{O}_{5.35}$ that synthesized by using sol gel method with citric acid as chelating and ethylene glycol, with ratio against mol cation total 10:4:1, obtained gel burned in temperature 600 °C.

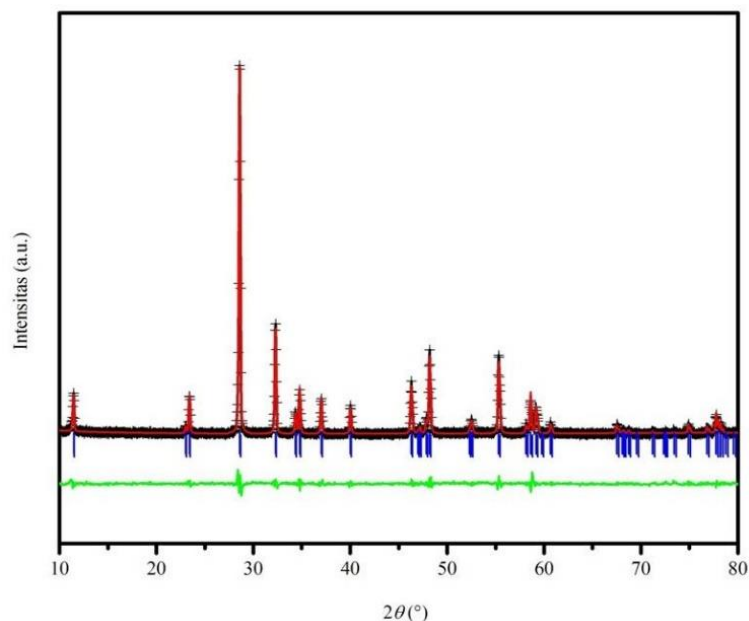


Figure 4 Plot of refinement result of pattern X-ray diffraction of oxide powder $\text{Bi}_2\text{Zn}_{0.1}\text{V}_{0.9}\text{O}_{5.35}$ after burned on temperature 600 °C during 24 hours. Sign + with black colour is data observation of result X-ray diffraction, red lines are calculation result, blue vertical lines are Bragg position would be expected, green lines are differences between calculation result and data observation of X-ray diffraction (differences between sign + black coloured and red lines).

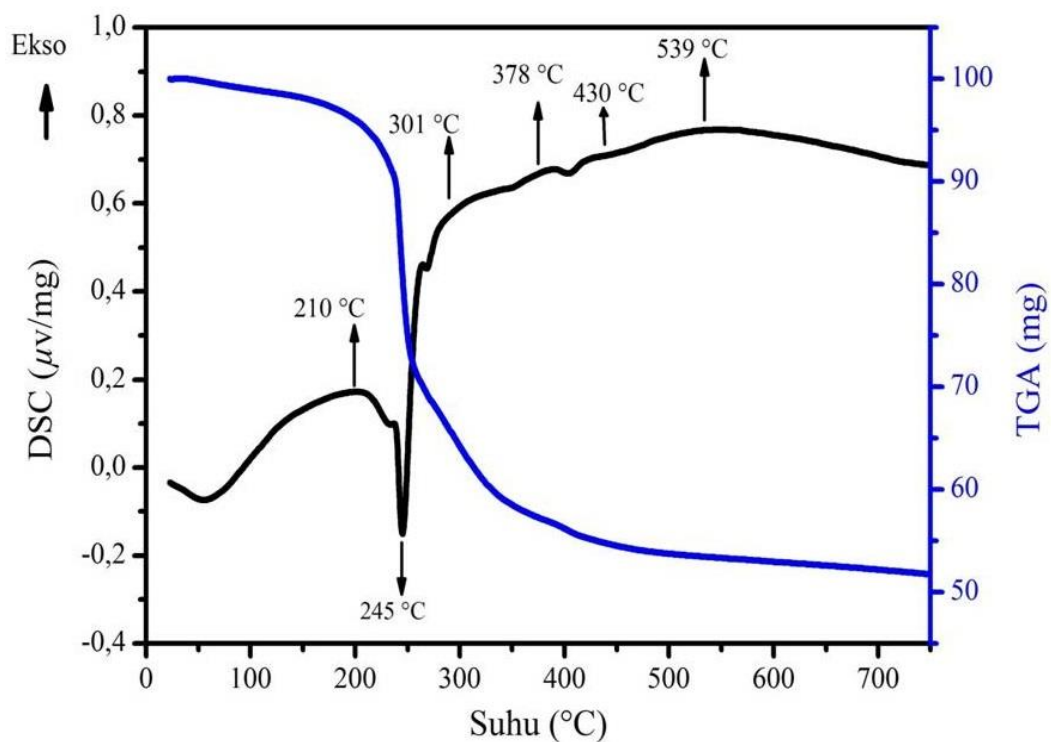


Figure 5 Thermogram of analysis result of thermal gel precursor from $\text{Bi}_2\text{Zn}_{0,1}\text{V}_{0,9}\text{O}_{5,35}$. Measurement carried out from room temperature until 750 °C by using increasing temperature rate 10 °C/minute and nitrogen atmosphere with flow rate 20 mL/minute.

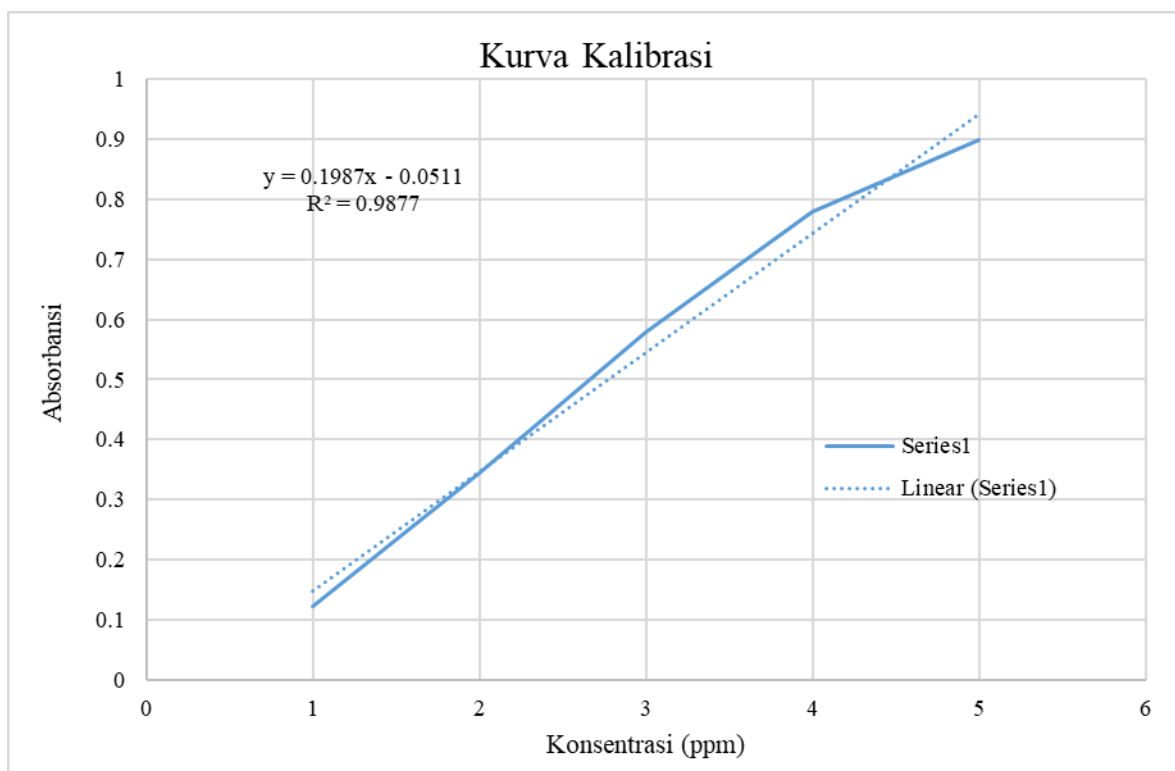


Figure 6 Example Figure not accepted Journal of Tropical Pharmacy and Chemistry

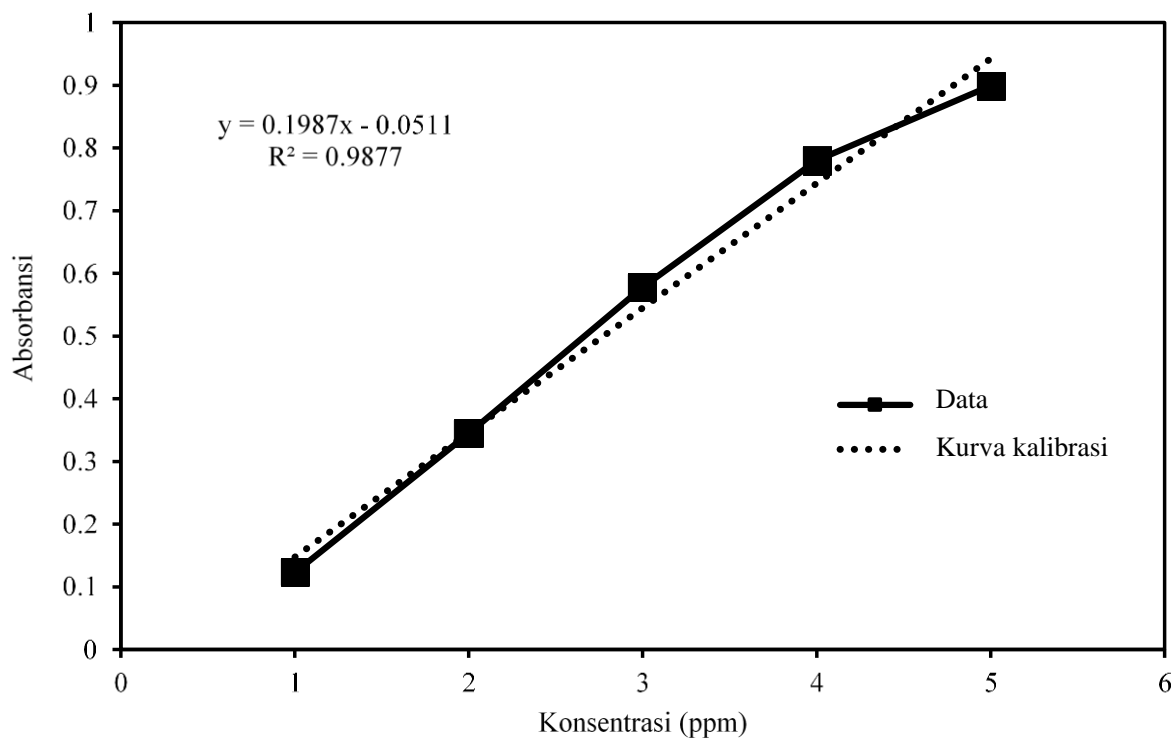


Figure 7 Figure of modification result from Figure 6, so that can be accepted by Journal of Tropical Pharmacy and Chemistry

4 Conclusion

Times New Roman font, 12 pt, 1 space, text alignment left and right, 1 column.

5 Acknowledgements (Optional)

Sample information of acknowledgement, for example informed to funding institution (usually accompanied with contract number of research), scholarship provider, which encourage measurement of samples, and etc.

Times New Roman Font, 12 pt, 1 space, text alignment left and right, 1 column.

6 Author contribution

Explain contribution from each author against written article.

Times New Roman Font, 12 pt, 1 space, text alignment left and right, 1 column.

7 Etic (if using human or animal tested as research object)

Write number of SK Etic and Institution which responsible for issue this SK.

Times New Roman Font, 12 pt, 1 space, text alignment left and right, 1 column.

8 Conflict of Interest

Give statement from author about absence or presence of conflict of interest.

Times New Roman Font, 12 pt, 1 space, text alignment left and right, 1 column.

9 Funding Statement

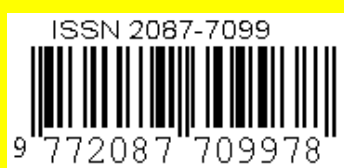
Give statement about your research fund.

Times New Roman Font, 12 pt, 1 space, text alignment left and right, 1 column.

10 Bibliography

Bibliography arranged based on citation ordered on article manuscript. The first reference found in manuscript given reference number 1.

[1] Author 1, Author 2, Year. Title of Article, Name of Journal, Volume, (Number), Pages.
DOI
[2]
[3]
[4]
And soon



p-ISSN: 2087-7099



e-ISSN: 2407-6090

Journal of Tropical Pharmacy and Chemistry

(J. Trop. Pharm. Chem.) *p-ISSN: 2087-7099; e-ISSN: 2407-6090.*

Address: Fakultas Farmasi, Universitas Mulawarman, Gedung Administrasi Fakultas Farmasi Jl. Penajam, Kampus Unmul Gunung Kelua, Kota Samarinda, Kalimantan Timur