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The 1st Tarumanagara International Conference on Medicine and Health (TICMIH) 2021 was held by Consortium of Health Science of LLDIKTI Region III collaborated with Untar Institute of Research & Community Engagement (LPPM Untar). The conference brought a topic about “Challenges and Opportunities for Overcoming Infectious Diseases in the 21st Century.” The scope of the articles included but was not limited to the following: Medicine, Health, Public Health, Infectious Disease & Tropical Medicine, Community Medicine, Dentistry, Pharmacy, Nursing, Nutrition, Obstetrics, and Clinical Psychology.

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PUBLISHING INFORMATION

Bibliographic information:

Title

Proceedings of the 1st Tarumanagara International Conference on Medicine and Health (TICMIH 2021)

Editors

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[AHSR](#)

Volume

41

ISSN

2468-5739

ISBN

978-94-6239-473-5

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Phytochemical Screening, Total Antioxidant Capacity, and Toxicity Test of Basil Leaf Extract (*Ocimum x africanum* Lour).

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Available Online 1 December 2021.

DOI

<https://doi.org/10.2991/ahsr.k.211130.010> [How to use a DOI?](#)

Keywords

Ocimum x africanum Lour; Reactive Oxygen Species; Total Antioxidant Capacity

Abstract

High pollutant levels have caused an increase in disease that correlated with Reactive Oxygen Species through a condition that is oxidative stress. Oxidative stress can be stabilized with antioxidants by stabilizing active and unstable radicals to become inactive and stable. Basil leaves (*Ocimum x africanum* Lour) are known to have antioxidant capacity. The aim of this study is to determine the phytochemical profiling and antioxidant capacity of basil leaves extract. This research was conducted with an in vitro experimental study design. Extraction of this research was carried out by maceration method using methanol as solvent. The tests were carried out in the form of phytochemical tests to determine the content of secondary metabolites and antioxidant capacity tests using the DPPH method. In phytochemical test of basil leaf extract, it was found positive for secondary metabolites of alkaloids, anthocyanins, cardio glycosides, coumarins, Flavonoid, glycosides, phenols, quinones, saponins, steroid, terpenoids and tannins and the antioxidant capacity test obtained IC_{50} of 174.04 $\mu\text{g/mL}$. In this study we found that basil leaves contain secondary metabolites and antioxidants capacity but not as much as vitamin C, even though basil leave antioxidant capacity not as much as vitamin C, basil leave have other compound like Linalool that have antimicrobial and antioxidant activity, beside vitamin C also can induce acid reflux, so it can be concluded that basil leaves have secondary metabolites and the antioxidant capacity.

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**Volume Title**

Proceedings of the 1st Tarumanagara International Conference on Medicine and

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Series

Advances in Health Sciences Research

Publication Date

1 December 2021

ISBN

978-94-6239-473-5

ISSN

2468-5739

DOI

<https://doi.org/10.2991/ahsr.k.211130.010> [How to use a DOI?](#)

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TY - CONF

AU - Timotius

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PY - 2021

DA - 2021/12/01

TI - Phytochemical Screening, Total Antioxidant Capacity, and Toxicity Test of Basil Leaf Extract (*Ocimum x africanum* Lour).

BT - Proceedings of the 1st Tarumanagara International Conference on
Medicine and Health (TICMIH 2021)

PB - Atlantis Press

SP - 52

EP - 56

SN - 2468-5739

UR - <https://doi.org/10.2991/ahsr.k.211130.010>

DO - <https://doi.org/10.2991/ahsr.k.211130.010>

ID - 2021

ER -

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