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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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Phytochemicals Profiling and Total Antioxidant Capacity of Cinnamon Bark Extract (*Cinnamomum burmanii*)

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Reactive oxygen species; Phytochemicals Profiling; *Cinnamomum burmanii*; Total Antioxidant Capacity

Abstract

Cardiovascular disease and stroke are the most feared disease in wide society. Both of these disease could be caused by oxidative stress. Oxidative stress occurred when there is an imbalance between ROS (*reactive oxygen species*) and antioxidants. Therefore, our body needs antioxidants to prevent it.

Antioxidants can be obtained from within our body (endogen) or outside the body (exogenous). The exogenous antioxidant can be found in herbal plants, which one of them is cinnamon bark. This research was conducted to determine secondary metabolite content and total antioxidant capacity in methanol extract of cinnamon bark. In this research, extraction process by maceration using methanol as the solvent. The phytochemical profiling is according to Harborne and the total antioxidant capacity assessment was using 1,1-Diphenyl-2-Picrylhydrazyl (DPPH) according to Blois. In the phytochemical profiling, phenolics, alkaloids, flavonoids, tannins, saponins, glycosides, terpenoids, quinones, betacyans, coumarins, and cardiac glycosides are contained in cinnamon bark extract. In the total antioxidant capacity assessment, the result showed the level of IC_{50} is 42,61 $\mu\text{g/mL}$. According to the value of IC_{50} , the extract of cinnamon bark has a very strong antioxidant capacity ($IC_{50} < 50$), so it could become an exogenous antioxidant agent.

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