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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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Phytochemical Screening and Total Antioxidant Capacity of Marigold Leaf Extract (Tagetes Erecta L.)

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Reactive Oxygen Species; Total Antioxidant Capacity; Tagetes erecta

Abstract

Reactive Oxygen Species (ROS) that are not balanced with antioxidants are known as oxidative stress. ROS are very easy to get, it can be found in the human body itself, because the human body also produce free radical from oxidation processes, inflammation and many more, external causes such as cigarette smoke, and other smoke. This oxidative stress condition can cause premature aging, cancer or other degenerative diseases. Antioxidants can balance these free radicals, one of the natural antioxidants is the marigold plant (*Tagetes erecta*) that contains lutein which is useful for anti-radicals. The purpose of this study is to know the phytochemical content and antioxidant capacity on methanol extracts of marigold leaf. This research is using methanol as a solvent and the extraction process is by maceration. The in-vitro test consisted of a qualitative phytochemical test (Harborne) than for an antioxidant capacity test with 1,1- Diphenyl-2-Picrylhydrazyl (DPPH) test (Blois). The results of qualitative testing showed that marigold leaf extract contains alkaloids, anthocyanins and betacyanin, cardiac glycoside, coumarins, flavonoids, glycosides, phenolics, quinones, saponins, terpenoids and tannins. The antioxidant capacity of marigold leaf extract has ($IC_{50} = 145.79$ g/mL) shown that marigold leaf extract has moderate antioxidant capacity.

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