ANTIOXIDANT ACTIVITY TEST OF THE COMBINATION OF MORINGA LEAVES (Moringa oleifera L) AND MANGO LEAVES (Mangifera indica L) IN THE FORM OF TEA BAGS

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ABSTRACT

Background: *Combination tea of moringa leaves and mango leaves is an innovation in utilizing natural biological resources in the form of moringa and mango plants. Moringa leaves contain antioxidant compounds such as tannins, flavonoids, alkaloids, steroids, saponins, anthraquinones and terpenoids. Mango leaves also contain antioxidant compounds such as alkaloids, flavonoids, and polyphenols.* ***Objective:*** *This study aims to determine the antioxidant activity and organoleptic quality of tea combination of moringa leaves and mango leaves with variations in the composition of moringa leaves: mango leaves 1:1 (K1), 2:1 (K2), 1:2 (K3) Using the spectrophotometric method.* ***Research Method:*** *Physical quality research was carried out organoleptically (aroma, color, taste) based on SNI 3746-2008 (Tea), while antioxidant content analysis was carried out using spectrophotometry****. Research results:*** *The results showed that sample K2 had stronger antioxidant activity with an IC50 value of 17.2 ppm compared to sample F1 with an IC50 value of 20.6 ppm and for sample F3 the IC50 value was 30.8 ppm. And the organoleptic quality that was preferred by panelists was in the K2 combination.* ***Conclusion:*** *From the results of the study, it can be concluded that the combination concluded that the treatment of 2 g moringa leaf formulation and 1 g mango leaf (K2) has more potential in producing high antioxidants.*

Keywords: *Tea, Moringa leaves and Mango leaves, Antioxidant activity*