ANTIOXIDANT ACTIVITY OF GEL MASK OF KING BANANA FRUIT SKIN EXTRACT (Musa Paradisiaca Sapientum) USING DPPH METHOD

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ABSTRACT

King banana fruit skin (Musa Paradisiaca Sapientum) has been known to contain chemical compounds such as flavonoid and phenolic compounds that can inhibit the formation of free radicals. Free radical compounds are very reactive to body cells, especially the skin by binding to electron molecules of cells. Damage to cell components of the skin, especially facial skin can cause the skin to become dry, wrinkled and dull, therefore it is necessary to add antioxidants to counteract free radicals. This study aims to determine whether the gel mask formulation containing extracts of king banana fruit skin has antioxidant activity. Determination of antioxidant activity of extracts and gel mask preparations was carried out using DPPH radical damping method. The results showed that the value of antioxidant activity (IC50) before was 45,093 μ g / mL. Whereas after the extract of the plantain fruit peel was put into the formulation of gel mask preparations IC50 values obtained respectively were 0,3911 μ g/mL, 0,4888 μ g/mL and 0,2864 μ g/mL. These results indicated that there was a significant value between the values IC50 before and after formulated in formula III with a significance value of < 0.05.

Keywords: DPPH, banana, gel, antioxidants, free radicals