

## Formulation and Evaluation of Peel-off Gel Masks from Red Rice Bran Extract with Various Kind of Bases

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**Abstract :** Rice bran is a side product of rice milling which contains antioxidant compounds such as tocopherols, tocotrienols, and gamma oryzanol. Red rice bran has higher antioxidant activity ( $IC_{50}$  43.2249 ppm) compared with white rice bran. This study aims to formulate and evaluate peel-off gel mask containing red rice bran extract. Dosage formulations of gel peel-off mask made in various types of bases that F1 (using base of polyvinyl alcohol, F2 (base of HPMC) and F3 (base of gelatin). Further preparation gel peel-off gel mask evaluated physical properties (organoleptic, homogeneity, pH, power of spread, test the strength of the film layer and irritation test) and antioxidant activity during the 8 weeks of storage. The results showed that the F1 shows the physical properties of the most well during 8 weeks of storage. While F3 showed the highest antioxidant activity than the other formulas with percent inhibition 88.81%.

**Keywords :** Red Rice Bran Extract, Peel-off Gel Mask, Antioxidant.

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