

## ABSTRACT

LIS SETYA TRY WAHYUNINNISA. 2024. Red smoothies Formulation of Ambon Banana, Red Dragon Fruit, and Soyghurt for the Prevention of Non-Communicable Diseases (Analysis of Antioxidant Activity and Organoleptic Quality). Supervisor : Maryam Razak and I Komang Suwita.

This study aims to analyze the effect of Red smoothies formulation of Ambon banana, red dragon fruit and soyghurt on antioxidant activity and organoleptic quality for the prevention of non-communicable diseases. This type of research is laboratory experimental research with a Completely Randomized Design (CRD) experiment with 4 treatment levels with 3 replications for each treatment level. The statistical analysis used for antioxidant activity is One Way Anova with a confidence level of 95% and for organoleptic quality (color, aroma, taste and viscosity) it is Kruskal Wallis with a confidence level of 95%. The research results showed that the higher the addition of soyghurt, the more antioxidant activity increased. The results of the analysis of organoleptic quality research show that the higher the percentage of addition of red dragon fruit and soyghurt, the level of panelist acceptance of the color, aroma, taste and viscosity decreases. Conclusion: Red smoothies formulation of Ambon banana, red dragon fruit and soyghurt has a significant influence on antioxidant activity and color organoleptic quality. However, it has an insignificant effect on the organoleptic qualities of aroma, taste and viscosity. The best treatment assessment shows that the P1 treatment level can be recommended as the best treatment level.

Kata kunci : Ambon Banana, Red Dragon Fruit, Soyghurt, Smoothies, Antioxidant Activity, Organoleptic Quality, Non-Communicable Diseases

