

CHAPTER V. CONCLUSIONS AND SUGGESTION

5.1. Conclusions

Based on the research that has be concluded that:

1. The eco-enzymes from banana peel and orange peel are effective as anti-inflammatory as indicated by their ability to significantly reduce the thickness of dorsal skin folds, dermis layer and the number of inflammatory cells.
2. The eco-enzymes made of banana and orange fruit peels could sustained the number of total leukocytes, lymphocytes, monocytes, and granulocytes within the normal ranges.
3. The eco-enzymes made of orange fruit peels composed of 6 bioactive compounds, respectively, that have the potential as anti-inflammatory responses.

5.2 Suggestion

In future research, it is important to investigate the mechanism of action of eco-enzymes as anti-inflammatory with in vitro and molecular study approaches and to observe the effect of carrageenan injection on the subcutaneous layer of the skin and the ability of eco-enzymes as anti-inflammatories in the sub-cutaneous layer.