

PUFA CONTENT IN SELECTED ORGAN FOR SEVERAL
SPECIES OF SHARK IN TERENGGANU WATER

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BY

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This project report is submitted in partial fulfillment of the requirements for the Degree
of Bachelor of Science (Marine Science)

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2000

1100024204

ACKNOWLEDGEMENT

In the name of Allah the Most Gracious. Firstly, I am grateful that with the mercy of God I was able to finish this research and endure all the challenge during the hard time encountered while doing this project. I also felt ever so grateful to my parents for their continuing support, whose words of wisdom always keep my spirit high. Also to my family member who provide me with all of basic necessity when needed.

I also would like to express highest thanks to my project supervisor, Prof. Dr. Lokman Shamsudin for direct contribution of advice, guidelines and support for this project becoming a reality. Special thanks to all laboratory personnel involved, Kartini Mohamad for some scientific information, Faridah Musa, Wan Azman and Mohamad Hadi Jafari for providing technical assistance during the research.

For all person that involved in this research that I've not mention, your help will certainly not be forgotten. I also like to appreciate all my course mate for making this life more colorful and cherish, especially to Rosli Husin and Kamal Azry Teruk whose been together through the good and the bad times for the last five years. Lastly to my beloved one, Aida Azna Abu Hasan who love and patience give me strength and hope, and through all the thick and thin during this research together.

ABSTRACT

This research was carried to determine the PUFA content of different species of shark in different major organ. Three species of sharks was utilized in this research, namely *Carcharhinus limbatus* (black-tip shark), *Carcharhinus sealei* (silvery shark) and *Carcharhinus dussumieri* (wide-mouthed black spot shark). The DHA level are higher than EPA in all sample. The saturated fatty acid are also higher than unsaturated fatty acid. Omega-3 content range from 0.05 mg/g to 0.57 mg/g while Omega-6 content range from 0.05 mg/g to 0.21 mg/g. The liver of all species contain the most existence of fatty acids. The highest amount of Omega-3 was found in heart tissue of *Carcharhinus sealei* (0.57 mg/g) and the highest amount of Omega-6 was found in brain tissue of *Carcharhinus dussumieri* (0.21 mg/g).

2.0 LITERATURE REVIEW

3.0 METHODOLOGY

3.1 Research Site

3.2 Research Species Detail

3.3 Analysis Method

3.3.1 Total Lipid Analysis

3.3.2 Fatty Acid Analysis