

This Final Year Project Report entitled "Phytochemical Screening and Bioactivity of *Garcinia parvifolia* Miq." was submitted by Aaron Solibun, in partial fulfillment of the requirements for the Degree of Bachelor of Science (Hons.) Biology, in the Faculty of Applied Sciences, and was approved by

**PHYTOCHEMICAL SCREENING AND BIOACTIVITY OF
GARCINIA PARVIFOLIA MIQ.**

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**Final Year Project Report Submitted in
Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science (Hons.) Biology
in the Faculty of Applied Sciences
Universiti Teknologi MARA**

JUNE 2013

Date: 27-07-2013

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ACKNOWLEDGEMENTS

I would like to express my greatness gratitude to my amazing supervisor, Madam Farnidah Haji Jasnief for supervising and guiding my final year project. I also would like to extend my appreciation to Agro technology and Science Laboratories Complex (KOMSAT) UiTM Sabah branch team including Miss Rosfayanti Haji Rasmidi (Coordinator of KOMSAT), Miss Ezawaniee Moulton (Assistant Science Officer) and all laboratory assistants Mr. Jemat Julaihi @ Basri, Madam Atifah Remat, Mr. Sufri Salimun, Miss Dk Suhana Ak Yunos and Mr Amzah Jaafar for giving me the opportunity to use chemicals, apparatus and laboratories to do my final year project. Special thank to Associate Professor Madam Gan Gin Hoon for words of encouragement during my early development of my research and Mr. Ajimi for guidance in preparing proposal and writing thesis. Not to forget Mr Hafiz Ahmad Tajudin and Madam Julenah Ag Nuddin for guidance and advice about dealing with chemical apparatus and all panels during presentation for their time, concern and valuable advice to improve this project. Last but not least, my final year project partner Mr. Jovinus Saidi for advice and companionship during laboratory work and beloved families, lectures and fellow friends for moral and knowledge support.

(Aaron Solibun)

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ABSTRACT

PHYTOCHEMICAL SCREENING AND BIOACTIVITY OF *GARCINIA PARVIFOLIA* MIQ.

The phytochemical compounds screening, antioxidant properties evaluation and vitamin C concentration determination of the crude methanolic extracts from pericarp of takob-akob (*Garcinia parvifolia*) were investigated. The phytochemical screening of extracts have revealed ten compounds which are terpenoids, flavonoids, carbohydrates, tannins, saponins, reducing sugar, anthraquinones, phytosterols, alkaloids and phenolic compounds while four compounds were not detected which are cardenolides, phenols, phlobatinnins and proteins. The antioxidant activities have been conducted using DPPH assay and the result showed positive relationship between the percentages of DPPH scavenging activity and concentration of the extracts. The result of this study showed that the highest percentage of DPPH scavenging activity was 94.09 % at the concentration of extracts, 2000 μg / ml. Meanwhile, by using titration method, the detected vitamin C content value was 4 g/l yield. In conclusion, it is conceivable that the *G. parvifolia* pericarp could be exploited as one of the potential sources for plant-based pharmaceutical products.