

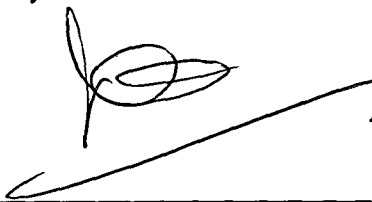
**ISOLATION OF ALKALINE THERMOPHILIC BACTERIA FROM  
HULU LANGAT HOT SPRINGS FOR PROTEASE PRODUCTION**

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

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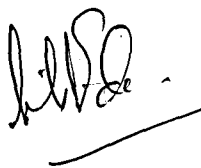
This Final Year Project entitled “Isolation of Alkaline Thermophilic Bacteria From Hulu Langat Hot Springs For Protease Production” was submitted by Yanti Binti Yaacob, in partial fulfilment of the requirements for the Degree of Bachelor of Science (Hons.) Biomolecular Science, in the Faculty of Applied Sciences and was approved by



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Yanti Binti Yaacob

## ABSTRACT

### ISOLATION OF ALKALINE THERMOPHILIC BACTERIA FROM MALAYSIAN HOT SPRINGS FOR PROTEASE PRODUCTION

The isolation of alkaline protease from thermophile microorganisms, originally isolated from a hot springs collected from the Hulu Langat hot springs is presented in this study and based on the 16sRNA identified the bacteria to be Bacillus sp. which is a gram positive with spore, motile thermophilic bacterium. This bacteria was able to produced a clearing zone on the skim milk and substrate agar which means this bacteria has utilize the lactose presence in that agar. From the nucleotide BLAST this bacteria is related to the *Bacillus licheniformis sp.*

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