

UNIVERSITI TEKNOLOGI MARA

**BIOTRANSFORMATION OF GONIOTHALAMIN
BY SELECTED FUNGI FROM MALAYSIAN
FOREST.**

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ABSTRACT

The major objective of this project is to determine the biotransformation of three different fungi in two different medium, which is medium A and B. in order to accomplish this, few steps were taken accordingly. First step was growing the endophytes in medium A and B. This was followed by feeding process which is adding substrate i.e., Goniotalamin, incubated for six and twelve days in shaking incubator at 28°C. The next step is extraction of the culture with solvent and apparatuses. Lastly, analyze the extracted compound by High Performance Liquid Chromatography (HPLC) technique.

CHAPTER 1

INTRODUCTION

1.1 Introduction

Biotransformation refers to any structural modifications brought by enzymes, microorganisms, animals or plant cell cultures. In microbial transformation, a substance (substrate) will be incubated with microorganism to produce another (product). Microbial transformation is also called “bioconversion” or “microbial conversion”.

1.2 Statement of problem

Some compounds cannot be transformed by classical chemical methods since they lack of certain enzymes for synthesis to occur. Moreover chemical synthesis is very expensive and its products or residues can be hazardous to environment and human health.