STUDY OF EFFECT AND CHARACTER STARCH WITH BAMBOO VINEGAR IN MANGO USING COATING

SHARIFAH ANIS AFIQAH BINTI SYED MOHUSIN

DEGREE OF BACHELOR OF SCIECE (Hons.) APPLIED CHEMISTRY
IN THE FACULTY OF APPLIED SCIENCES
UNIVERSITI TEKNOLOGI MARA

JANUARY 2023

STUDY OF EFFECT AND CHARACTER STARCH WITH BAMBOO VINEGAR IN MANGO USING COATING

SHARIFAH ANIS AFIQAH BINTI SYED MOHUSIN

FINAL YEAR PROJECT REPORT SUBMITTED IN
PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE
DEGREE OF BACHELOR OF SCIECE (HONS.) APPLIED CHEMISTRY
IN THE FACULTY OF APPLIED SCIENCES
UNIVERSITI TEKNOLOGI MARA

JANUARY 2023

This Final Year Project Report entitled " **Study of Effect and Character Starch With Bamboo Vinegar In Mango Using Coating**" was submitted by Sharifah Anis Afiqah binti Syed Mohusin in partial fulfilment of the requirements for the Degree of Bachelor of Science (Hons.) Applied Chemistry, in Faculty of Applied Sciences, and was approved by

_____

Mohd Lias Bin Kamal
Supervisor
B. Sc. (Hons.) Applied Chemistry
Faculty of Applied Science
Universiti Teknologi Mara
02600 Arau
Perlis

_____

Dr. Siti Nurlia Binti Ali
Project Coordinator
B. Sc. (Hons.) Applied Chemistry
Faculty of Applied Science
Universiti Teknologi Mara
02600 Arau
Perlis

_____

Dr. Zuliahani Binti Ahmad
Head of Programme
B. Sc. (Hons.) Applied Chemistry
Faculty of Applied Science
Universiti Teknologi Mara
02600 Arau
Perlis

Date: 29 th JANUARY 2023

ABSTRACT

STUDY OF EFFECT AND CHARACTER STARCH WITH BAMBOO VINEGAR IN MANGO USING COATING

One of the great potential commercial values is the mango, and it also has the ability to be shipped to other nations. The mango also known as *Mangifera Indica* is a well-known kind of mango that is native to Malaysia. The same is apparent for the Harum Manis mango. This is because its flavour and aroma are completely unique in comparison to those of any other mango. However, the most significant issues regarding mango fruit preservation and shelf life. In this project, an experiment on bamboo vinegar with starch was tested to know the potential in antifungal, the shape, colour, and moisture in mangoes to maintain the freshness of mangoes. The FTIR was used to characterize the properties of the extracted material. In the end, a physical test will be carried out in order to assess the amount of moisture that is contained within the mango, as well as its colour, form, and an observation of the mango skin itself through the use of image pre-processing.

TABLE OF CONTENTS