

UNIVERSITI TEKNOLOGI MARA

**A STUDY ON THE PHYSICAL
CHARACTERISTICS OF LIPSTICKS
FORMULATED WITH NATURAL AND
COMMERCIAL BEESWAX**

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ABSTRACT

This research was conducted to study the physical characteristics of the lipsticks formulated with different types of beeswax which are natural beeswax, commercial beeswax and the combination of natural and commercial beeswax. The study was carried out to get information on the lipstick formulations based on the types of beeswax that can suit the customer's acceptances. The study was done based on the physical characteristics of the lipsticks measured by two types of analysis which were the texture analysis by TA XT Texture Analyzer and sensory analysis by Panel Acceptance Test. The physical characteristics that were measured by the TA XT Texture Analyzer were the hardness, brittleness and stiffness through the Penetrometer test and Cantilever Rig test. The sensory analysis was evaluated by four types of attributes which were spreadability, hardness, tackiness and smoothness. In this study, there were nine lipstick samples formulated with different proportion amount and type of beeswax with constant amount of natural butter and oils. There were the 15g, 18g and 21g of lipstick formulated with natural beeswax, 15g, 18g and 21g of lipstick formulated with commercial beeswax and 15g, 18g and 21g of lipstick formulated with combination of natural and commercial beeswax. Based on the physical characteristics, the lipstick formulated with natural beeswax gave good physical characteristics compared to commercial beeswax. The lipstick formulated with natural beeswax became the most preferable lipstick by the panels among the lipstick formulated with commercial beeswax.

Keywords : Beeswax, Natural beeswax, Commercial beeswax, Sensory analysis, Texture analysis, Physical characteristics, Lipstick

CHAPTER ONE

INTRODUCTION

1.1 Background of Study

Cosmetics products are the substances used to enhance female appearances. According to Miller – Keane Encyclopedia and Dictionary of Medicine (2003), cosmetics are defined as the substances for beautifying as to preserve, restore or confer comeliness. According to the Food, Drug and Cosmetics Act (1938), cosmetics are defined as the substances that are intended to be applied directly to any part of the human body as cleansing, beautifying, promoting attractiveness or altering appearance without affecting the structure or function (Elsner et al., 2005).

Lipstick is one of the cosmetic products. Lipstick can give life to the face and protect lips from drying. Most of the women now consider lipstick as the most important cosmetic product. They cannot leave the house without wearing lipstick. A decent lipstick should have persuading characteristics to be acceptable to consumers. Hardness, texture and melting point are the important properties in producing the pleasurable lipstick characteristics.