

## **ABSTRACT**

### **THE EFFECT OF PACKAGING TYPE AND SELF LIFE PERIODE TO CHEMICAL, MICROBIOLOGY, AND SENSORIC PROPERTIES OF GOAT'S MILK CARAMEL CANDY**

**By**

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Caramel candy is a kind of toffe classified into soft candy and created using the basic ingredients of milk and sugar. One of the ways to prevent damage are well packaging and storing. The right packaging is needed for caramel candies product to get a longer self life periode and to keep the caramel candies quality. This study aims to determine the type of packaging and storage time for 28 days at room temperature to maintain the chemical, microbiological, and organoleptic appropriate quality standard SNI 3457.2 caramel candy in 2008, and to know the interaction between the type of packaging and self life periode of goat's milk caramel candies .

The study was conducted in two groups of factors using Complete Randomized Design (RAKL) in three reapatations. The first factors is the type of packaging (P) consisting of polyethylene plastic (P1), alumunium foil (P2), and oil paper packaging (P3). The second factors is the leght of storages (L) consisting of 0 days (L1), 7 days (L2), 14 days (L3), 21 days (L4), and 28 days (L5). The data

obtained will be tested homogeneity using Barlett test, Tuckey test and analysis of the ragnge to get the difference between treatments, and the conducted further test using comparison and orthogonal polynomials test on the real level of 1% or 5%.

This type of alumunium foil packaging for 28 days storage at room temperature, is the best type of packaging that can maintain the chemical, microbiological, and organoleptic properties of goat's milk caramel candies with criteria of water content of 5,81% w/w, ash content of 0,95% w/w, reducing sugar content 2,26% w/w, total molds and yeasts  $0,49 \times 10^2$  colonies/gram, a total microbial of 2,83 colonies/gram, and brown color, soft texture, sweetness, and neutral tones. Where is it qualified to quality standard of caramel candies in SNI 3547.2 (2008).

Keyword : Caramel candy, caramelization, package, goat's milk