

## ABSTRACT

### CONCENTRATION OF CARRAGEENAN IN THE PREPARATION OF EUCALYPTUS JELLY CANDY (*Malaleuca leucadendron*)

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The eucalyptus plant (*Melaleuca leucadendron*) is one of the essential oil producing plants that is often found in Indonesia. Eucalyptus itself has known benefits, including for headaches, flu, fever, asthma, and coughs. Candy is a snack that is liked by many people, both children and adults. The types of candy commonly found in Indonesia are hard candy and soft candy. Jelly candy is an example of a type of soft candy made from water or fruit juice with the addition of gel-forming ingredients such as gelatin and carrageenan.

In the manufacture of jelly candy, carrageenan is used as an additional ingredient to increase its organoleptic properties and functional value. Apart from that, carrageenan is also used as an additional ingredient to regulate the viscosity and texture of jelly candy.

The aim of this research was to determine the level of panelists' preference for jelly candy which had been made with the addition of eucalyptus leaf filtrate and carrageenan. The method used in making jelly candy is the decoction of eucalyptus leaves which have been sampled using purposive sampling without selecting young and old and carrageenan without sifting. Jelly candy will be tested using a hedonic test, namely a liking test involving panelists to assess the color, aroma, texture and taste of jelly candy. Panelists are panel discussion participants who act as instruments in organoleptic assessment. In this research, the required panelists were 30 people and came from colleagues at PT. Kitoshindo International Biotech Mojokerto.

The result is that each eucalyptus jelly candy formula has a different level of preference if the one they like in terms of aroma is formula 1, the texture they like is formula 3 and the taste they like is formula 2. The panelists' preference parameters for color have the same value for formula 1, 2, and 3. It can be concluded that the eucalyptus leaf jelly candy in the hedonic test for taste parameters preferred formula 2.

**Keywords** : eucalyptus leaves, carrageenan, jelly candy, level of liking