EFFECTIVENESS OF CANDY JELLY PRODUCTS EXTRACT GINGER RED (Zingiber officinale var rubrum) TO POTENTIAL GROWTH OF BACTERIA Streptococcus mutans

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ABSTRACT

Red Ginger is a spice plant origin Indonesia. Red Ginger contains a lot of gingerol, oleoresin, and essential oils as antifungal and antibacterial that can be utilized as Candy Jelly products. This study aims to determine the effectiveness of Candy Jelly products on the potential growth of Streptococcus mutans bacteria causing coral and dental caries as well as to determine the consumer response to Candy Jelly red ginger extract products. The method used was quantitative experiment with diffusion disc technique with 3 treatments and 8 repetitions consisting of 10% red ginger extract concentration, ampicillin as control (+) and base of Candy Jelly as suck (-). The results showed that the effectiveness treatment produced by Candy Jelly red ginger extract with 10% concentration showed 0.739 cm inhibition, 0.828 cm ampicillin and Candy Jelly 0.645 cm with pH 5. The result of the average power likes consumers showed the percentage of 50% of Candy Jelly products.

Keywords: Candy Jelly, Red Ginger, Streptococcus mutans