**FORMULASI SEDIAAN PASTA GIGI BERBENTUK**

**GEL DARI EKSTRAK AIR BUNGA KENANGA**

***(Cananga odorata*) SERTA UJI AKTIVITAS**

**ANTI BAKTERI *Streptococcus mutans***

**SARI YANTI HARAHAP**

**NPM : 162114207**

ABSTRAK

Karies gigi atau gigi berlubang merupakan penyakit gigi terlokalisir yang merusak jaringan keras gigi yang terjadi karena adanya yaitu *host (*gigi), bakteri, substrat (*diet*), dan waktu. Karies disebabkan karena bakteri, salah satu bakteri yang dijumpai dalam mulut adalah *Streptococcus mutans*. Bunga kenanga mengandung flavonoid, tanin, dan saponin yang diduga memiliki efek antibakteri. Penelitian ini bertujuan untuk mengetahui pengaruh pasta gigi berbentuk gel dari sari bunga kenanga terhadap pertumbuhan *Streptococcus mutans.*

Pembuatan gel sari bunga kenanga dibuat dengan variasi konsentrasi 15%, 20% dan 25%. Selanjutnya diikuti dengan evaluasi sediaan gel yaitu dengan uji organoleptis, uji homogenitas dan uji pH dan uji aktivitas antibakteri terhadap *Streptococcus mutans.*

Hasil penelitian menunjukkan bahwa ekstrak air bunga kenanga *(Cananga odorata*) dapat diformulasikan dalam sediaan gel pasta gigi dan memiliki efek antibakteri terhadap pertumbuhan *Streptococcus mutans.* Diameter daerah hambat sari bunga kenanga dengan konsentrasi 15% adalah 17,33 mm, konsentrasi 20% dengan zona hambat 18,33 mm dan konsentrasi 25% dengan 20,46 mm.

**Kata kunci** : karies, bunga, kenanga*,* antibakteri, *Streptococcus mutans.*

***FORMULATION OF TOOTHPASTE GEL FROM CANANGA FLOWER (Cananga odorata) WATER EXTRACT AND ANTIBACTERIAL ACTIRITY AGAINTS***

***Streptococcus mutans***

**SARI YANTI HARAHAP**

**NPM: 162114207**

*ABSTRACT*

*Dental caries or cavities is a localized dental disease that damages the hard tissues of the teeth, which occurs due to the presence of the host (teeth), bacteria, substrate (diet), and time. Caries is caused by bacteria, one of the bacteria found in the mouth is Streptococcus mutans. Cananga flowers contain flavonoids, tannins and saponins which are thought to have water antibacterial effects. The objective of the research were to formulate cananga flower water extract, into toothpaste gel and to determine the effect of cananga flower extract toothpaste gel on the growth of Streptococcus mutans.*

*Cananga flower water extract gel was made with various concentrations of 15%, 20% and 25%. Evaluation of gel preparations, namely by organoleptic test, homogeneity test and pH test and antibacterial activity test Streptococcus mutans. Were condocted in this reseapch.*

 *The results showed that cananga flower water extract (Cananga odorata) could be formulated into toothpaste gels and had an antibacterial effect on Streptococcus mutans. The diameter of inhibition area of the cananga flower water extract with a concentration 15% was 17.33 mm, concentration 20% was 18.33 mm and 25% was 20.46 mm.*

***Keywords****: cananga, flower, caries, antibacterial, Streptococcus mutans.*