

## Pengaruh lama perendaman gigi di dalam larutan ekstrak kelopak bunga rosela terhadap perubahan warna email = The effect of tooth immersion duration in roselle extract solution on discoloration of enamel

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### Abstrak

[Rosela mengandung zat warna berupa antosianin. Untuk mengetahui pengaruh lama perendaman terhadap perubahan warna email, digunakan 10 buah spesimen gigi sapi yang direndam dalam larutan ekstrak kelopak bunga rosela selama 15 menit, 30 menit, 45 menit, dan 60 menit. Nilai perubahan warna diperoleh dengan menggunakan VITA Easyshade dan rumus CIEL\*a\*b\*. Hasil uji Repeated ANOVA menunjukkan nilai  $\Delta L^*$ ,  $\Delta a^*$ ,  $\Delta b^*$ , dan perubahan warna ( $\Delta E$ ) yang bermakna antara perendaman 15 menit, 30 menit, 45 menit, dan 60 menit ( $p < 0,05$ ). Larutan ekstrak kelopak bunga rosela dapat menyebabkan perubahan warna email., Roselle contains anthocyanins, a group of color pigment . This research was conducted to determine the effect of tooth immersion duration in roselle extract solution on enamel discoloration using 10 bovine teeth for 15 minutes, 30 minutes, 45 minutes, and 60 minutes of exposure. Color was measured using VITA Easyshade and CIEL\*a\*b\* color scale. Differences in  $\Delta L^*$ ,  $\Delta a^*$ ,  $\Delta b^*$ , and  $\Delta E$  were analyzed using repeated ANOVA. There were significant differences between control and treatment groups ( $p < 0,05$ ). Roselle extract solution could cause discoloration of enamel.]