

**DAYA HAMBAT EKSTRAK KAYU MANIS (*Cinnamomum burmannii*) TERHADAP PERTUMBUHAN BAKTERI *Aggregatibacter actinomycetemcomitans***

**SKRIPSI**



Oleh:

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**SURABAYA**

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LEMBAR PENGESAHAN

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SKRIPSI

Diajukan Sebagai Salah Satu Syarat Untuk Menyelesaikan Pendidikan  
Dokter Gigi Di Fakultas Kedokteran Gigi Universitas Airlangga  
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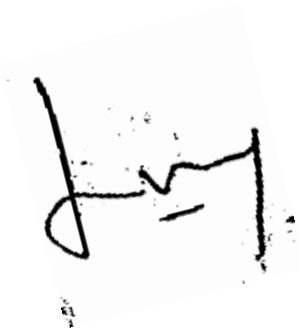
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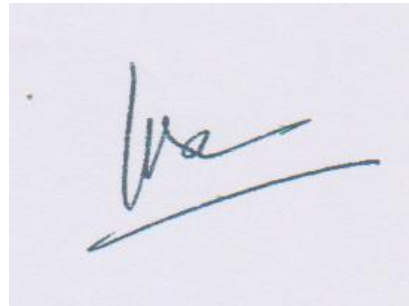


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## **PENETAPAN PANITIA PENGUJI SKRIPSI**

Skripsi ini telah diuji pada tanggal 13 Januari 2021

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**SURAT PERNYATAAN TENTANG ORISINALITAS**

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Menyatakan bahwa saya tidak melakukan plagiat dalam penulisan skripsi saya yang berjudul:

DAYA HAMBAT EKSTRAK KAYU MANIS (*Cinnamomum burmannii*)  
TERHADAP PERTUMBUHAN BAKTERI *Aggregatibacter*  
*actinomycetemcomitans*

Apabila pada suatu saat nanti terbukti melakukan tindakan plagiat, maka saya akan menerima sanksi yang telah ditetapkan.

Demikian surat pernyataan ini saya buat dengan sebenar-benarnya.

Surabaya, 8 Januari 2021



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## **Inhibitory Effects of *Cinnamomum burmanii* Extract On The Growth Of *Aggregatibacter actinomycetemcomitans***

**Nicholas Ezra**

### **ABSTRACT**

*Cinnamon extract possesses various potent and promising antibacterial properties, however there are a lack of research on their effects and abilities to inhibit the growth of *Aggregatibacter actinomycetemcomitans*.*

*This research is done to identify the effectiveness of Cinnamon extract in inhibiting the growth of *Aggregatibacter actinomycetemcomitans* in an in vitro environment. The method used in this research is experimental research using *Aggregatibacter actinomycetemcomitans* samples grown on Muller Hinton Agar medium and incubated in anaerobic atmosphere and temperature set to 37°C for 24 hours. The concentrations of cinnamon extract used in this research are 2%, 4%, 6%, 8%, and 10% respectively, along with negative control.*

*Data obtained from the experiment shows that inhibition of bacterial growth is only found in samples treated with cinnamon extract solution with concentration of 8% and 10%, with their inhibition zone diameter on average being 12,5167 mm and 15,6583 mm respectively. Cinnamon extract solutions diluted to concentrations of 2%, 4%, 6%, and negative controls did not show any signs of bacterial growth inhibition on the media.*

**Keywords: Cinnamon, *Aggregatibacter actinomycetemcomitans*, Inhibition**