

Uji Aktivitas Antibakteri dan Antioksidan Ekstrak Pigmen Klorofil Rumput Laut *Caulerpa racemosa* (Forsskal) J.Agardh

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ABSTRACT

The determination of antimicrobial and antioxidant activities of Chlorophyll pigment of *Caulerpa racemosa* (Forsskal) J.Agardh is described in this study. The aim of the study was to find out the effectiveness of chlorophyll extract in inhibiting growth of *Staphylococcus aureus* and *Escherichia coli*. Paper disc method was used to study the hampering the ability of chlorophyll toward both bacteria, and the DPPH (1,1-difenil-2-dipikrilhidrazil) method was used to find out the antioxidant activity. The result showed that extract chlorophyll can inhibit the growth of both bacteria at the concentration of 100% with the inhibition diameter zone 2.170 cm and 2.100 cm respectively. Whereas the IC₅₀ of the chlorophyll is 2350.3 ppm can be served as an antioxidants.

Key words: antibacterial, antioxidants, chlorophyll, *Caulerparacemosa* (Forsskal) J.Agardh.