

**ANALISIS KANDUNGAN SENYAWA ANGGUR LAUT (*Caulerpa
lentilifera*) DALAM KOLAM BUDIDAYA TERKONTROL DAN
LINGKUNGAN ALAMI**

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ABSTRAK

Anggur laut atau disebut *Caulerpa lentillifera* merupakan komoditas unggulan karena memiliki nilai ekonomis yang relatif baik. Manfaat dari anggur laut sangat beraneka ragam antara lain dapat mengobati atau mencegah kanker. Anggur laut dapat dijadikan sebagai sumber gizi karena pada umumnya mengandung senyawa proksimat seperti karbohidrat, protein dan sedikit lemak. Selain itu *C. lentillifera* juga mengandung senyawa fitokimia seperti flavonoid, alkaloid, tannin, saponin dan terpenoid. Keterbatasan informasi terkait kandungan yang terdapat dalam anggur laut maka dilakukan penelitian untuk mengetahui kandungan proksimat dan senyawa fitokimia anggur laut pada bak terkontrol dan perairan bebas. Dari hasil skrining fitokimia positif senyawa alkaloid, tanin, terpenoid, saponin. Pada bak budidaya kadar air *C. lentillifera* 94%, kadar abu 3,10%, kadar protein 2,21%, kadar lemak 0,28%, karbohidrat 0,32%. Kandungan proksimat anggur laut pada perairan bebas dengan kadar air 94,2%, kadar abu 2,34%, kadar protein 2,15% kadar lemak 0,16%, karbohidrat 1,06%.

Kata-kata kunci: anggur laut; proksimat; skrining fitokimia

**TITLE COMPOUND CONTENT ANALYSIS OF SWA GRAPES
(CAULERPA LENTILLIFERA) IN CONTROLLED CULTIVATION
PONDS AND NATURAL ENVIRONMENT**

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ABSTRACT

Sea grapes or called Caulerpa lentillifera is a superior commodity because it has relatively good economic value. The benefits of sea grapes are very diverse, among others, it can treat or prevent cancer. Sea grapes can be used as a source of nutrition because they generally contain proximate compounds such as carbohydrates, proteins and a little fat. In addition, C. lentillifera also contains phytochemical compounds such as flavonoids, alkaloids, tannins, saponins and terpenoids. Limited information related to the content contained in sea grapes, research was conducted to determine the proximate content and phytochemical compounds of sea grapes in controlled tubs and free waters. From the results of positive phytochemical screening of alkaloid compounds, tannins, terpenoids, saponins. In the cultivation basin, the moisture content of C. lentillifera is 94%, ash content is 3.10%, protein content is 2.21%, fat content is 0.28%, carbohydrates are 0.32%. Proximate content of sea grapes in free waters with 94.2% moisture content, 2.34% ash content, 2.15% protein content, 0.16% fat content, 1.06% carbohydrates.

Keywords: *sea grapes; proximate; phytochemical screening*