

**ANALISIS ASAM AMINO NON ESENSIAL PADA KERANG BULU
(*Anadara antiquata*) DI PERAIRAN PANTAI TIMUR
SUMATERA UTARA**

Putri Ayu Aprillia (4143220026)

Email: aprilliaayu023@gmail.com

ABSTRAK

Penelitian ini bertujuan untuk mengetahui kandungan asam amino non esensial pada kerang bulu (*Anadara antiquata*) pada umur dan lokasi yang berbeda, kondisi substrat dan faktor fisika kimia perairan di pantai Timur Sumatera Utara. Pengambilan data dilakukan pada bulan Mei sampai Agustus 2018. Penelitian ini bersifat deskriptif dengan metode survey eksploratif. Penentuan tempat pengambilan dilakukan secara *purposive sampling*, berdasarkan tempat biasa kerang ditemukan warga sekitar. Hasil penelitian menunjukkan bahwa terdapat perbedaan fisika-kimia perairan di kedua lokasi, fisika-kimia perairan Sialang Buah suhu 32,4⁰C, salinitas 24,3‰, pH 8, kecerahan 20,9 cm, kedalaman 122,6 cm dan fisika-kimia perairan Tanjung Balai suhu 29,6⁰C, salinitas 25,4 ‰, pH 7,4, kecerahan 33,9 cm, kedalaman 208,4 cm. Terdapat perbedaan hasil jenis substrat di kedua lokasi, subtract Sialang Buah liat berpasir dan subtract Tanjung Balai liat. Hasil nilai asam amino non esensial pada kerang bulu (*Anadara antiquata*) nilai yang paling tinggi terdapat pada asam glutamat pada lokasi Tanjung Balai, yang dimana nilai pada kelas 30-33 pada kerang bulu (*Anadara antiquata*) 72056.42% , dan kelas 34-36 pada kerang bulu (*Anadara antiquata*) 63538.76%, dan kelas 37-39 pada kerang bulu (*Anadara antiquata*) 68605.10%. Dan nilai yang terendah terdapat pada Histidin pada lokasi Tanjung Balai.

Kata kunci : *Anadara antiquata*, Fisika kimia perairan, Jenis substrat, Asam amino non esensial.

ANALYSIS OF AMINO ACIDS ESSENTIAL'S CONTENT (*Anadara antiquata*) HAIRY COCKLE in the EAST COAST WATER OF NORTH SUMATRA

Putri Ayu Aprillia (4143220026)

Email: aprilliaayu023@gmail.com

ABSTRACT

The purpose of this research determine the content of amino acids essential's in hairy cockle (*Anadara antiquata*) at different ages and locations, substrate conditions and chemical physics factors of waters on the East coast of North Sumatra. The data was taking in May until Agustus 2018. This research is descriptive with exploratory survey method. Determining the place of collecting data is carried out purposive sampling, which is the determining the place of collecting sample based on the usual place of hairy cockle was found by the residents in that place. The factor of physic and chemical in Sialang Buah the temperature was range between 32,4⁰C, the salinity was range between 24,3‰, the pH was range between 8, the brightness was range between 20,9 cm, the depth was range between 122,6 cm. The factor of physic and chemical in Tanjung Balai the temperature was range between 29,6⁰C, the salinity was range between 25,4‰, the pH 7,4, the brightness was range between 33,9 cm, the depth was range between 208,4 cm. The substrate type in Sialang Buah is sandy clay, and in Tanjung Balai is clay. There are the different physic and chemical factor in all of location. The results of the study of amino acids essential's in mussels (*Anadara antiquata*) were the highest values found in glutamic acid at the Tanjung Balai location, where grades in grades 30-33 on hairy cockle (*Anadara antiquata*) were 72056.42%, and classes 34-36 on mussels (*Anadara antiquata*) 63538.76%, and grades 37-39 on mussels (*Anadara antiquata*) 68605.10%. And the lowest value is in Histidin at Tanjung Balai location.

Keywords: *Anadara antiquata*, Factor of physic, The substrate, Amino acids essential.