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c. Volume, nomor, bulan tahun :2020, Volume 13, Issue 1.
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e. DOI artikel (jika ada) : -
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Semarang, 10 Januari 2020.
Reviewer 1

Prof. Dr. Ir. Slamet Budi Prayitno, M.Sc
NIP. 195506281981031005
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Volume 13, Issue 1, 2020, Pages 36-45

Ecological study and preliminary culture of the sponge Candidaspongia a source of anticancer molecules (Article)

Trianto, A.[a,b], Ambariyanto[a,b], Sarjito[c], Pramesti, R.[a], Soenarjo, N.[a], Hartati, R.[a], Taufiq-Spj, N.[a], Endrawati, H.[a], Destio[a], Yusidarta, I.[d]

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Abstract

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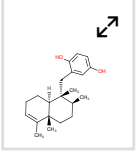
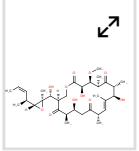
Sponge Candidaspongia sp. is a source of candidaspongiolide, a very potent anticancer macrolide that is active against various cell lines at nanogram level. However, low abundance of the sponge in nature and structurally complex of candidaspongiolide have become the major obstacles for the drug development. This study aims to assess the feasibility of the production of the anticancer compounds, the candidaspongiolides, using sponge culture . The study was conducted in Kupang, Nusa Tenggara Timur, Indonesia. The sponge abundance was observed using modified Line Intercept Transect method at 12 m and 20 m. Some sponge colonies were cut and preserved for culture and chemical analyses. Then, the recovery rate of the sponge was observed after 60 days. Sponge culture was carried out at 6 m, 12 m and 25 m depth during 60 days. Inventory of the Candidaspongia sp. showed that the sponge density at around 12 m depth is lower than those in 25 m depth. All of the sponges were survive after the cut and fully recovered in 60 days. The length and width increments of the basal part were 0.25-2.1 cm/month and 0.5-1.75 cm/month, respectively. The sponges cultured at 12 m and 25 m depth have higher survival and growth rates than those at 6 m depth. Descriptively, the sponge cultured in deeper water have higher ethyl acetate extracts content than the sponge cultured at the shallower water. Sponge mariculture is a possible method to supply candidaspongiolide for further studies.

Chemistry database information

Substances

Author keywords

Anticancer Candidaspongia Ethyl acetate Mariculture Natural stock

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