**SKRINING FITOKIMIA DAN UJI AKTIVITAS SITOTOKSISITAS EKSTRAK ETIL ASETAT DAUN MARPUYAN (*Rhodamniae cinereae folium* (Jack))** **MENGGUNAKAN LARVA UDANG DENGAN METODE *BSLT***

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# **ABSTRAK**

Obat tradisional adalah bahan atau ramuan bahan yang berupa bahan tumbuhan, bahan hewan, bahan mineral, sediaan sarian (galenik) atau campuran dari bahan tersebut yang secara turun temurun telah digunakan untuk pengobatan dan dapat diterapkan sesuai dengan norma yang berlaku di masyarakat. Secara tradisional masyarakat Riau khususnya daerah Rengat, telah menggunakan tumbuhan daun marpuyan *(Rhodamnia cineeae Jack)*.

Penelitian ini bertujuan untuk mengetahui aktivitas sitotoksik ekstrak etil asetat Daun Marpuyan *(Rhodamnia cinereae* Jack) dengan metode *Brine Shrimp Lethality Test* (BSLT). Uji fitokimia terhadap ekstrak Daun Marpuyan *(Rhodamnia cinereae* Jack) sampel ekstrak etil asetat daun marpuyan mengandung senyawa alkaloid, flavonoid, tanin dan saponin. Hasil uji pada konsentrasi 100, 200, 300, 400, 500, 600 dan 700 µg/mL memberikan persen kematian larva *Artemia salina* Leach sebesar masing-masing 33,30%, 36,60%, 46,60%, 56,60%, 63,30%, 70% dan 86,60%.

Hasil analisa probit pengujian sitotoksik ekstrak etil asetat daun marpuyan diperoleh nilai LC50 260,8461 µg/mL.

dengan kategori sangat toksik dan berpotensi sebagai antikanker.

**Kata Kunci:** Ekstrak Etil Asetat, *(Rhodamnia cinereae* Jack*)*, Aktivitas Sitotoksik

***PHYTOCHEMICAL SCREENING AND CYTOTOXICITY ACTIVITY TEST OF MARPUYAN LEAF ETHYL ACETATE EXTRACT
(Rhodamniae cinereae folium (Jack)) USING
SHRIMP LARVAE BY BSLT METHOD***

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# ***ABSTRACT***

*Traditional medicine is an ingredient or herb ingredients in the form of plant ingredients, animal ingredients, mineral ingredients, essence preparations (galenik) or a mixture of such ingredients that have been used for generations and can be applied in accordance with the norms prevailing in society. Traditionally riau people, especially Rengat area, have used marpuyan leaf plant (Rhodamnia cineeae Jack).*

*The objective of this research was to determine the cytotoxic activity of ethyl acetate extract of Marpuyan Leaf (Rhodamnia cinereae Jack) by Brine Shrimp Lethality Test (BSLT) method. Phytochemical test of Marpuyan Leaf extract (Rhodamnia cinereae Jack) sample of marpuyan leaf ethyl acetate extract contained alkaloid compounds, flavonoids, tannins and saponins. Test results at a concentration of 100, 200, 300, 400, 500, 600 and 700 μg/mL gave the percentage of Artemia Salina Leach larva deaths of 33.30%, 36.60%, 46.60%, 56.60%, 63.30%, 70%, and 86.60%, respectively.*

*Probit analysis of cytotoxic extract of ethyl acetate marpuyan leaves obtained LC50 value of 260.8461 μg/mL with highly toxic category and potentially as anticancer.*

***Keywords:*** *Ethyl Acetate Extract, (Rhodamnia cinereae Jack), Cytotoxic Activity*