

Korespondensi : Analisis Fitokimia dan Aktivitas Antibakteri Beberapa Jenis Tanaman terhadap Bakteri Patogen pada Budidaya Ikan

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Judul : Analisis Fitokimia Dan Aktivitas Antibakteri Beberapa Jenis Tanaman Terhadap Bakteri Patogen Pada Budidaya Ikan

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**ANÁLISIS FITOKIMIA DAN AKTIVITAS ANTIBAKTERI
 BEBERAPA JENIS TANAMAN TERHADAP BAKTERI PATOGEN
 PADA BUDIDAYA IKAN**

**PHYTOCHEMICAL ANALYSIS AND ANTIBACTERIAL ACTIVITIES OF
 SOME OF PLANTS AGAINST PATHOGENIC BACTERIA IN FISH
 CULTIVATION**

Yuliana Salosso¹, Olga², Siti Aisiah³, Jeny Dorotea Ressie³, Yenni Welhelmina Foe³, dan Wesley Pasaribu¹
¹Program Studi Budidaya Perairan, Universitas Nusa Cendana Kupang
²Fakultas Perikanan dan Kelautan Universitas Lambung Mangkurat
³Balai karantina Ikan Pengendalian Mutu Kupang
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Abstract
 This study aims to determine the phytochemical content and antibacterial activity of ten types of plants against *Vibrio alginolyticus* and *Aeromonas hydrophilla* bacteria. Choose 10 types of plants that are often used as medicine and are commonly found in the city of Kupang, such as *Phyllanthus acidus*, *Euphorbia hirta*, *Persea gratissima*, *Euphorbia thymifolia*, *Morus australis*, *Justicia gendarussa*, *Paederia scandens*, *Amona squamosa*, *Sesbania sesban*, *Jatropha gossypifolia*. The plant parts used are leaves, except for *E.hirta* and *E.thymifolia* which are used throughout the plant. The

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**ANÁLISIS FITOKIMIA DAN AKTIVITAS ANTIBAKTERI
 BEBERAPA JENIS TANAMAN OBAT TERHADAP BAKTERI
 PATOGEN PADA BUDIDAYA IKAN**

**PHYTOCHEMICAL ANALYSIS AND ANTIBACTERIAL
 ACTIVITIES OF SOME TYPES OF DRUG PLANTS AGAINST
 PATHOGENIC BACTERIES IN FISH CULTIVATION**

Yuliana Salosso¹, Olga², Siti Aisiah³, Jeny Dorotea Ressie³ dan Wesley Pasaribu¹
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Abstract
 This study aims to determine the phytochemical content and antibacterial activity of ten types of medicinal plants against *Vibrio alginolyticus* and *Aeromonas hydrophilla* bacteria. This research includes phytochemical test of medicinal plants, antibacterial test with the disc method for 10 types of medicinal plants and plant concentration tests that are antibacterial against *V. alginolyticus* and *A. hydrophilla*. The results showed that the medicinal plants used in this study contained

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PHYTOCHEMICAL ANALYSIS AND ANTIBACTERIAL ACTIVITIES OF SOME OF PLANTS AGAINST PATHOGENIC BACTERIA IN FISH CULTIVATION

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Abstract

This study aims to determine the phytochemical content and antibacterial activity of ten types of plants against *Vibrio alginolyticus* and *Aeromonas hydrophilla* bacteria. Choose 10 types of plants that are often used as medicine and are commonly found in the city of Kupang and whose economic value is still low, such as *Phyllanthus acidus*, *Euphorbia hirta*, *Persea gratissima*, *Euphorbia thymifolia*, *Morus australis*, *Justicia gendarussa*, *Paederia scandens*, *Annona squamosa*, *Sesbania sesban*, *Jatropha gossypifolia*. The plant parts used are leaves, except for *E. hirta* and *E. thymifolia* which are used throughout the plant. The ten types of plants were made into powder, then extracted by maceration in stages starting from the solvent n-hexane, ethyl acetate and methanol, in addition, the water extract of the plant was also used. All types of plant extracts were tested for antibacterial using the agar diffusion method (disc method). The type of active extract was then tested for antibacterial at concentrations of 10%, 1% and 0.1%. The results showed that the plants used in this study contained phenolic compounds (except *P. scandens* leaves), flavonoids, tannins and steroids (except *E. hirta*). While the alkaloid compounds are only contained by *A. squamosa* leaves and *P. scandens* leaves. Triterpenoids only contained *A. squamosa* leaves, *E. hirta* and *P. gratissima* leaves while saponins only contained *P. scandens* leaves and *P. gratissima*. Types of plants that are suspected of being antibacterial in marine fish culture are water extract and methanol extract of *E. hirta* and *E. thymifolia*. While the types of plants that have the potential as antibacterial in freshwater fish farming are water extracts of *E. hirta*, *E. thymifolia* and *J. gendarussa* leaf.

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ANALISIS FITOKIMIA DAN AKTIVITAS ANTIBAKTERI BEBERAPA JENIS TANAMAN TERHADAP BAKTERI PATOGEN PADA BUDIDAYA IKAN

PHYTOCHEMICAL ANALYSIS AND ANTIBACTERIAL ACTIVITIES OF SOME OF PLANTS AGAINST PATHOGENIC BACTERIA IN FISH CULTIVATION

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