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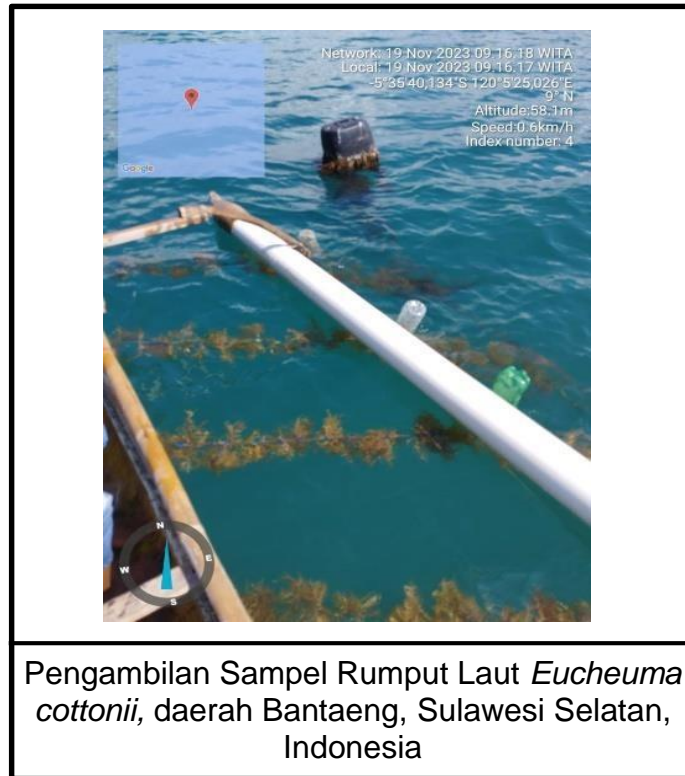
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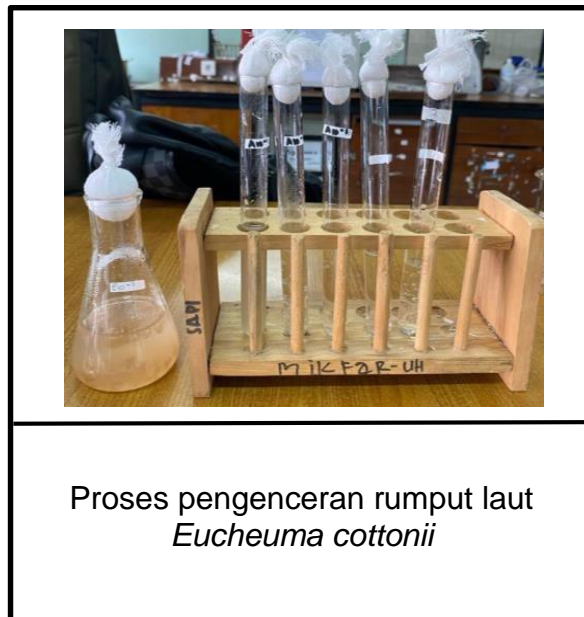
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## LAMPIRAN

### 1. Pengambilan Sampel

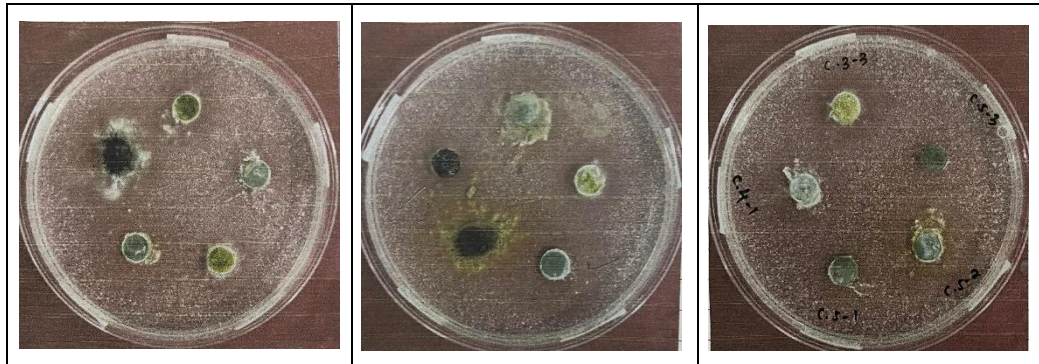


### 2. Isolasi Fungi Simbion



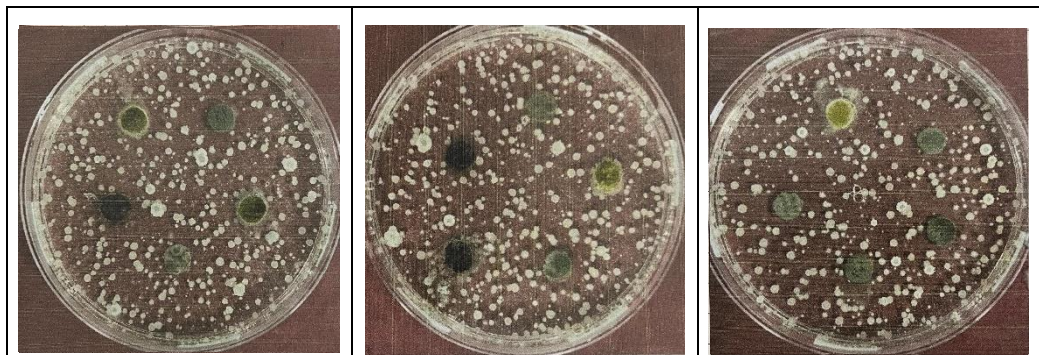
### 3. Hasil Uji Antagonis

#### a. *Candida albicans*



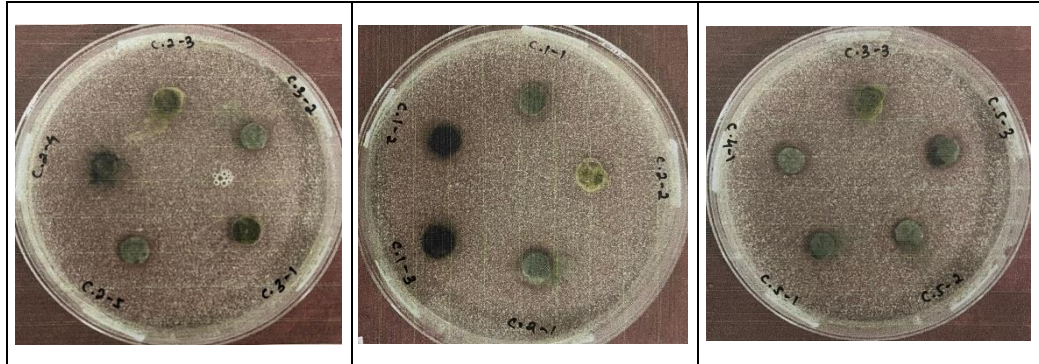
Hasil uji Antagonis pada 15 isolat fungi simbion terhadap *C. albicans* menggunakan medium Potato Dextrose Agar, isolat dipotong menggunakan stainless steel cork borer dan diletakkan pada cawan petri yang berisi medium dan bakteri uji, diinkubasi selama 1 x 24 jam

#### b. *Escherichia coli*



Hasil uji Antagonis pada 15 isolat fungi simbion terhadap *E. coli* menggunakan medium Potato Dextrose Agar, isolat dipotong menggunakan stainless steel cork borer dan diletakkan pada cawan petri yang berisi medium dan bakteri uji, diinkubasi selama 1 x 24 jam

### c. *Staphylococcus aureus*



Hasil uji Antagonis pada 15 isolat fungi simbion terhadap *S. aureus* menggunakan medium Potato Dextrose Agar, isolat dipotong menggunakan stainless steel cork borer dan diletakkan pada cawan petri yang berisi medium dan bakteri uji, diinkubasi selama 1 x 24 jam

## 4. Fermentasi

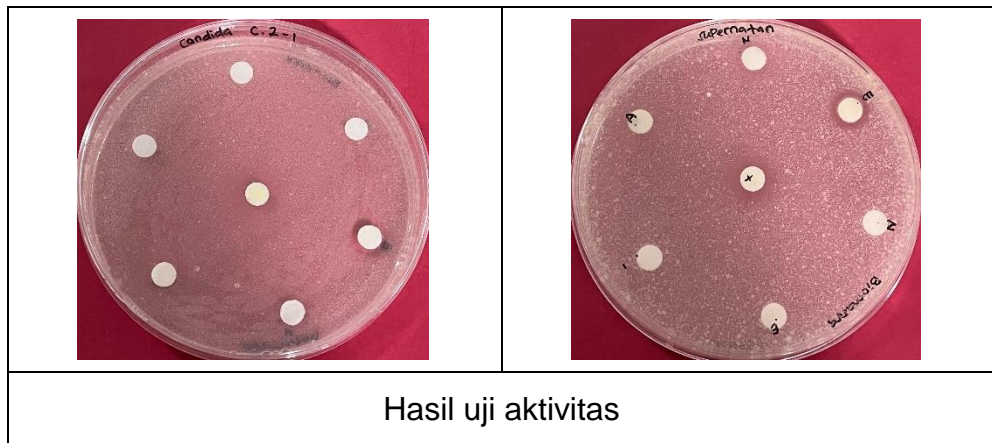


Proses fermentasi dalam kondisi tershaker  
kecepatan 150 rppm

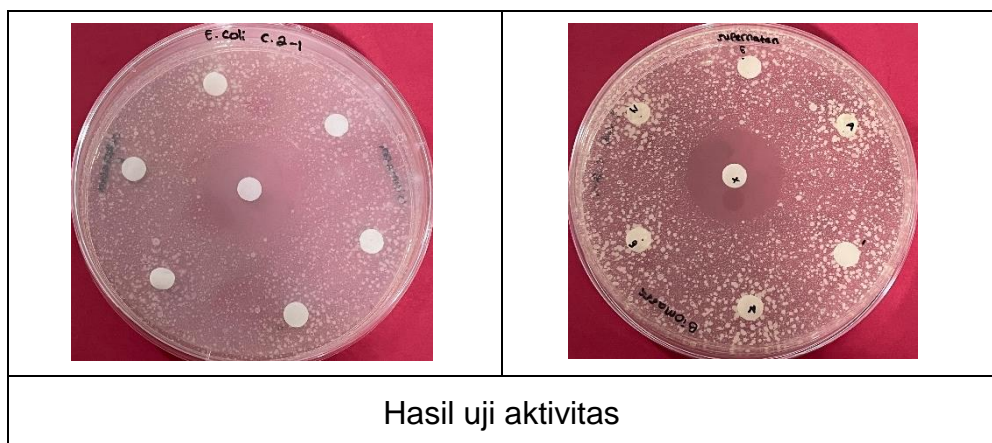


## 5. Uji Aktivitas

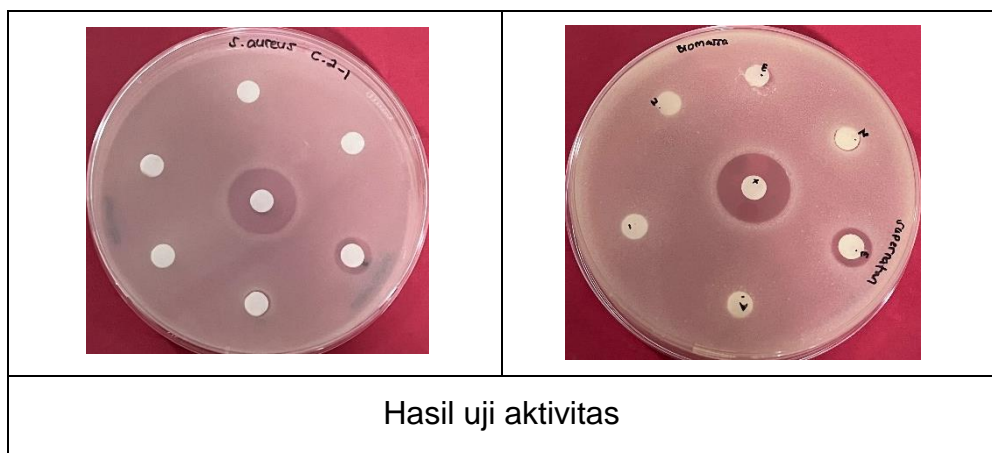
### a. C. 2-1 *C. albicans*

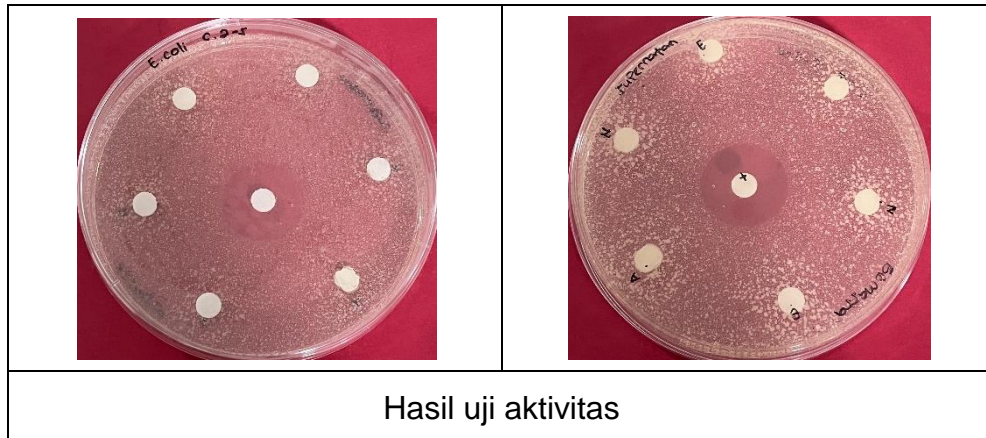
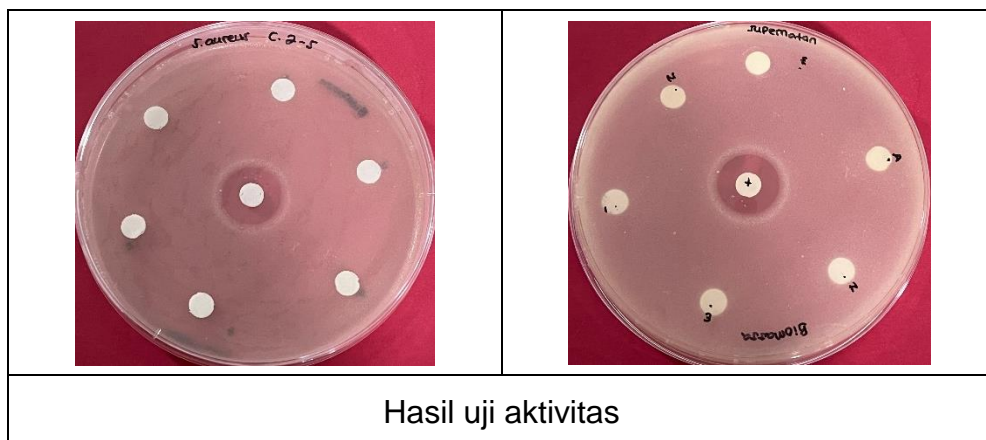


### b. C. 2-1 *E. coli*

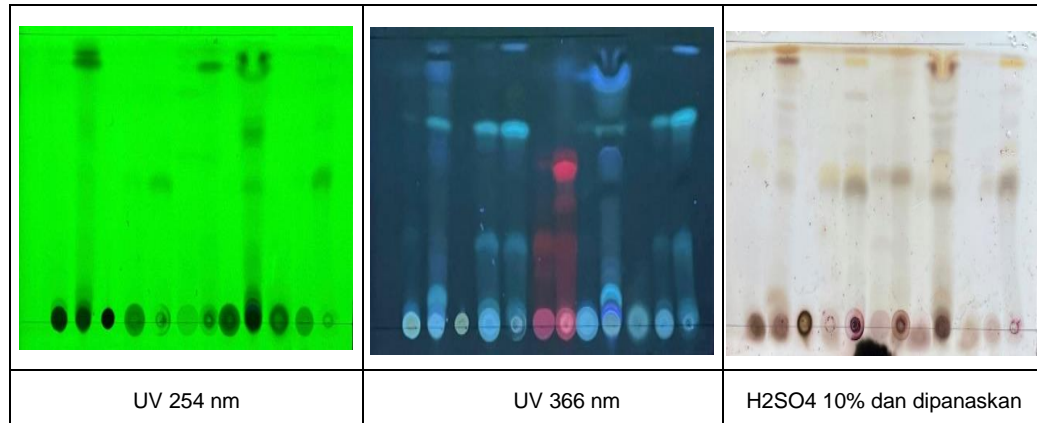


### c. C. 2-1 *S. aureus*



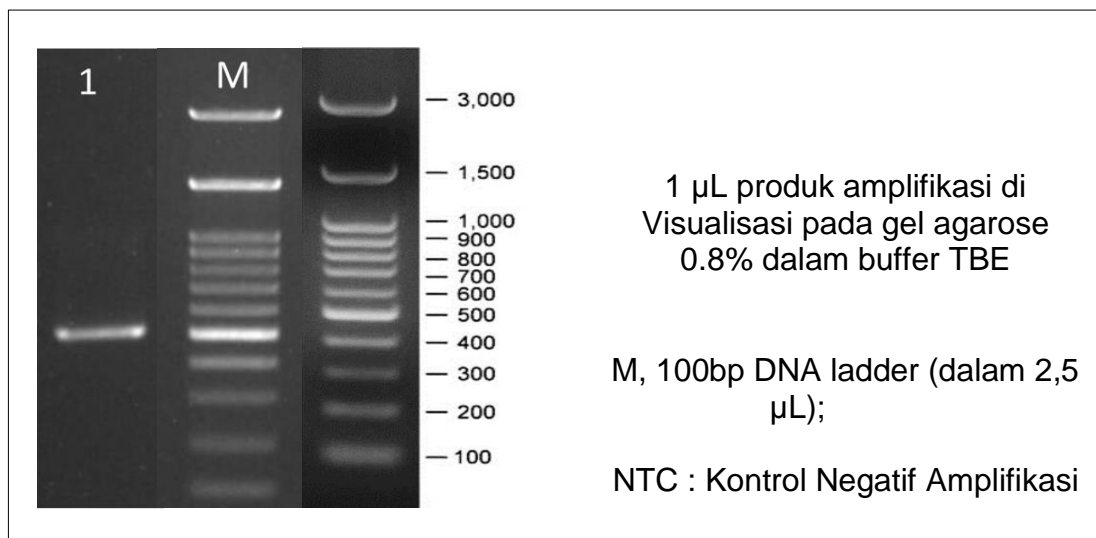
**d. C. 2-5 *C. albicans*****e. C. 2-5 *E. coli*****f. C. 2-5 *S. aureus***

## 6. Kromatografi Lapis Tipis



## 7. Identifikasi Molekuler

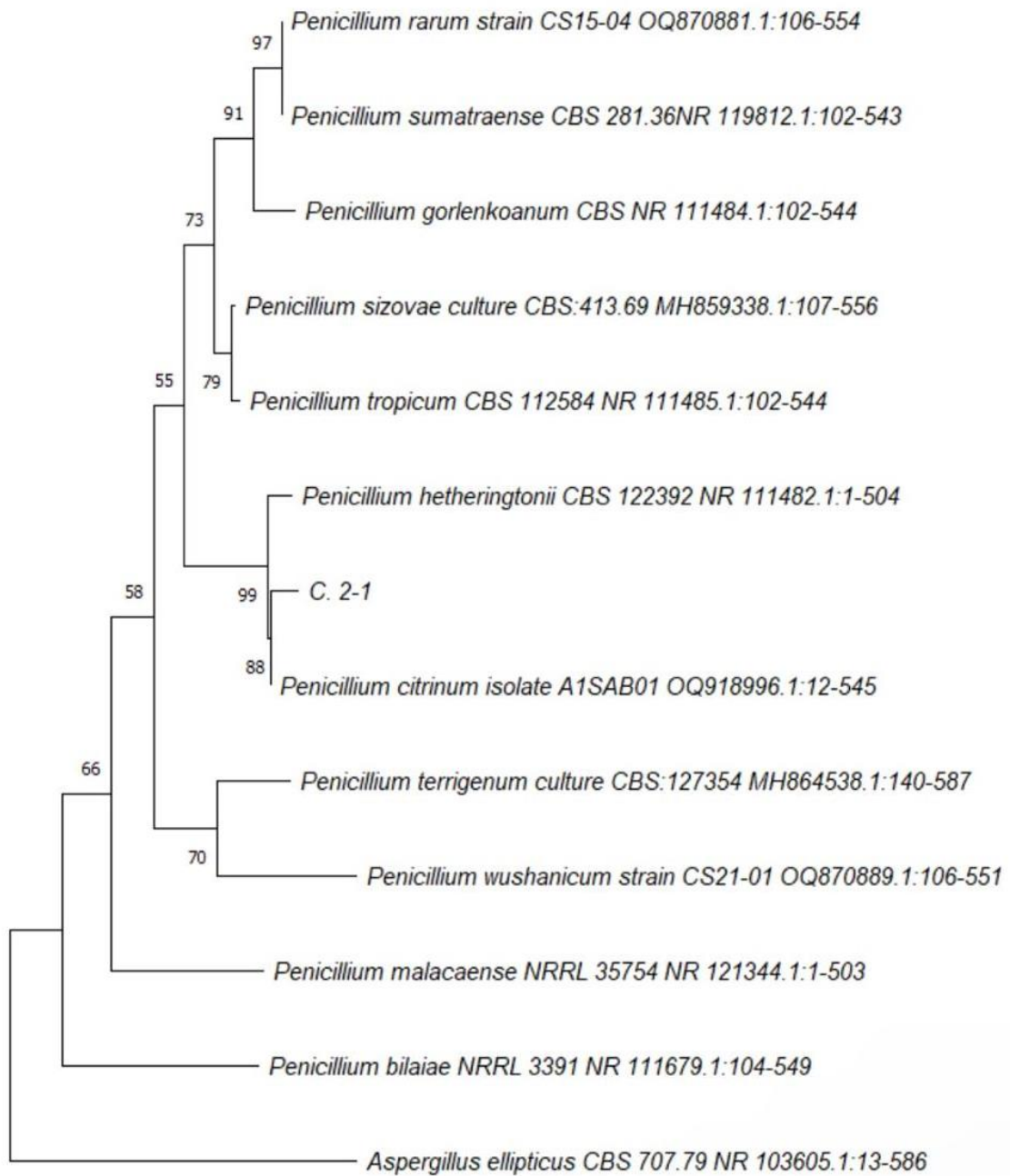
### a. Elektroforesis produk PCR



### b. Hasil Sekuensing – Produk Amplifikasi

No	Kode sampel	Sekuens
		<b>Sequence assembly 534 bp</b>
		1 TGAACCTGCG GAAGGATCAT TACCGAGTGC GGGCCCCTCG GGGCCCAACC TCCCCACCCG
		61 TGTTGCCCGA ACCTATGTTG CCTCGGCGGG CCCCgcgccc GCCGACGGCC CCCCTGAACG
		121 CTGCTGAAG TTGCAGTCTG AGACCTATAA CGAAATTAGT TAAACTTTC AACAACGGAT
		181 CTCTTGGTTC CGGCATCGAT GAAGAACGCA GCGAAATGCG ATAACTAATG TGAATTGCAG
1.	G-3329-1	241 AATTCAGTGA ATCATCGAGT CTTTGAACGC ACATTGCGCC CTCTGGTATT CCGGAGGGCA
		301 TGCCTGTCCG AGCGTCATTG CTGCCCTCAA GCCCGGCTTG TGTGTGGGC CCCGTCCCCC
		361 CCGCCGGGGG GACGGGCCCG AAAGGCAGCG GCGGCACCGC GTCCGGTCTT CGAGCGTATG
		421 GGGCTTCGTC ACCCGCTCTA GTAGGCCCGG CCGGCGCCAG CCGACCCCA ACCTTTAATT
		481 ATCTCAGGTG GACCTCGGAT CAGGAAGGGA TACCCGCTGA ACTTAAGCAT ATCA

### c. Pohon Filogenik



#### d. Hasil BLAST

Description	Max Score	Total Score	Query Cover	E value	Per. Ident	Accession
<input checked="" type="checkbox"/> <a href="#">Penicillium citrinum isolate A1SAB01 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA...</a>	976	976	100%	0.0	99.63%	<a href="#">OQ918996.1</a>
<input checked="" type="checkbox"/> <a href="#">Penicillium sp. isolate ZLL158 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene...</a>	976	976	100%	0.0	99.63%	<a href="#">PP794888.1</a>
<input checked="" type="checkbox"/> <a href="#">Penicillium citrinum isolate F13 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene...</a>	976	976	100%	0.0	99.63%	<a href="#">OR690697.1</a>
<input checked="" type="checkbox"/> <a href="#">Penicillium citrinum isolate SA13 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene...</a>	976	976	100%	0.0	99.63%	<a href="#">OR598714.1</a>
<input checked="" type="checkbox"/> <a href="#">Penicillium citrinum isolate PY17 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene...</a>	976	976	100%	0.0	99.63%	<a href="#">OR598711.1</a>
<input checked="" type="checkbox"/> <a href="#">Penicillium griseofulvum isolate CF00049 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal...</a>	976	976	100%	0.0	99.63%	<a href="#">OQ076449.1</a>
<input checked="" type="checkbox"/> <a href="#">Penicillium griseofulvum isolate CF00013 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal...</a>	976	976	100%	0.0	99.63%	<a href="#">OQ076420.1</a>
<input checked="" type="checkbox"/> <a href="#">Penicillium citrinum strain Xia16 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene...</a>	976	976	100%	0.0	99.63%	<a href="#">OR346130.1</a>
<input checked="" type="checkbox"/> <a href="#">Penicillium hetheringtonii isolate IMBC-NMTP04 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribo...</a>	976	976	100%	0.0	99.63%	<a href="#">OR288524.1</a>
<input checked="" type="checkbox"/> <a href="#">Penicillium sp. isolate CV00280 small subunit ribosomal RNA gene, partial sequence; internal transcribed spacer 1, 5.8S ribosomal RNA gene...</a>	976	976	100%	0.0	99.63%	<a href="#">OR095997.1</a>

#### PERNYATAAN KEASLIAN TESIS DAN PELIMPAHAN HAK CIPTA

Dengan ini saya menyatakan bahwa, tesis berjudul "ISOLASI DAN IDENTIFIKASI MOLEKULER FUNGI SIMBION RUMPUT LAUT (*Eucheuma cottonii*) DARI DAERAH BANTAENG, SULAWESI SELATAN, INDONESIA YANG BERPOTENSI SEBAGAI PENGHASIL SENYAWA ANTIMIKROBA" adalah benar karya saya dengan arahan dari komisi pembimbing (Prof. Dr. Gemini Alam, M.Si., Apt. sebagai Pembimbing Utama dan Dr. Herlina Rante, S.Si., M.Si., Apt. sebagai Pembimbing Pendamping). Karya ilmiah ini belum diajukan dan tidak sedang diajukan dalam bentuk apapun kepada perguruan tinggi manapun. Sumber informasi yang berasal atau dikutip dari karya yang diterbitkan maupun tidak diterbitkan dari penulis lain telah disebutkan dalam teks dan dicantumkan dalam Daftar Pustaka tesis ini.

Dengan ini saya melimpahkan hak cipta dari karya tulis saya berupa tesis ini kepada Universitas Hasanuddin.

Makassar, 02 Agustus 2024



*Affa Hikmah Isra'ini Elly*  
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