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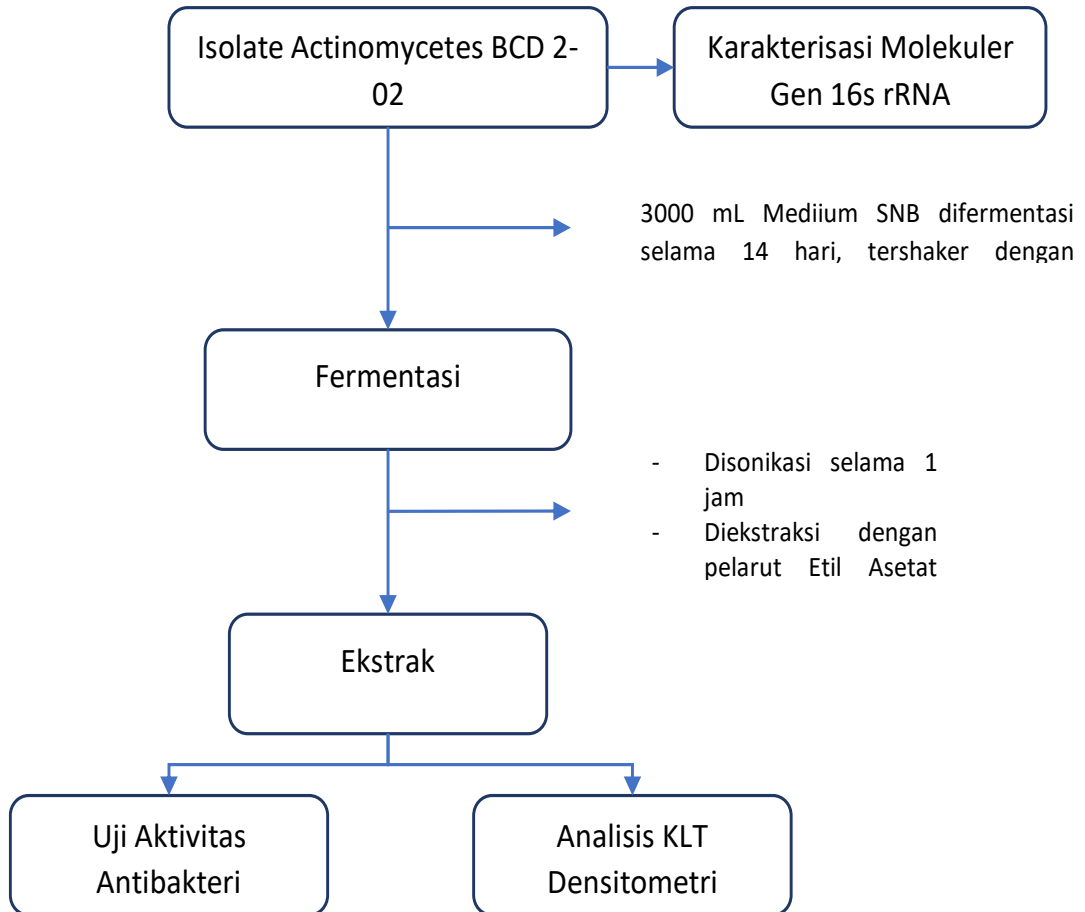
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## LAMPIRAN

### Lampiran 1 Skema Kerja





## Lampiran 2. Komposisi Media

**Tabel 6.** Komposisi Media NA

Nama Bahan	Jumlah
<i>Beef extract</i>	0.3 g
Pepton	0.5 g
Agar	1.5 g
Aquadest	ad 100 mL

**Tabel 7.** Komposisi Media MHA

Nama Bahan	Jumlah
<i>Beef extract</i>	0.2 g
Casein hydrolysate	1.75 g
Starch	0.15 g
Aquadest	ad 100 mL

**Tabel 8.** Komposisi Media SNA

Nama Bahan	Jumlah
Agar	20 g
Pati	20 g
KNO <sub>3</sub>	1 g
MgSO <sub>4</sub>	0.5 g
K <sub>2</sub> HPO <sub>4</sub>	0.5 g
NaCl	0.5 g
FeSO <sub>4</sub>	0.01
Air laut	ad 1000 mL

### Lampiran 3. Perhitungan

#### 1. Rumus Perhitungan Nilai Rf

Nilai Rf dapat dihitung dengan cara sebagai berikut :

$$Rf = \frac{\text{Jarak yang ditempuh bercak sampel (cm)}}{\text{Jarak yang ditempuh pelarut (cm)}}$$

#### 2. Pembuatan Medium NA (Nutrient Agar)

Medium NA dibuat dengan melarutkan 20 gram dalam 1000 ml, jika akan dibuat dalam 100 ml maka:

$$\frac{20 \text{ gram}}{1000 \text{ ml}} = \frac{x \text{ gram}}{100 \text{ ml}}$$

$$x1000 \text{ gram/ml} = 2000 \text{ gram/ml}$$

$$x = \frac{2000}{1000} = 2$$

Medium NA yang digunakan adalah 2 gram

Jadi aquadest yang ditambahkan = 100 ml

#### 3. Pembuatan Medium NB (Nutrient Broth)

Medium NB dibuat dengan melarutkan 8 gram dalam 1000 ml, jika akan dibuat dalam 50 ml maka:

$$\frac{8 \text{ gram}}{1000 \text{ ml}} = \frac{x \text{ gram}}{50 \text{ ml}}$$

$$x1000 \text{ gram/ml} = 400 \text{ gram/ml}$$

$$x = \frac{400}{1000} = 0,4$$

Medium NB yang digunakan adalah 0,4 gram

Jadi aquadest yang ditambahkan = 50 ml

#### 4. Pembuatan Medium MHA (Mueller Hinton Agar)

Medium MHA dibuat dengan melarutkan 38 gram dalam 1000 ml, jika akan dibuat dalam 100 ml maka:

$$\frac{38 \text{ gram}}{1000 \text{ ml}} = \frac{x \text{ gram}}{100 \text{ ml}}$$

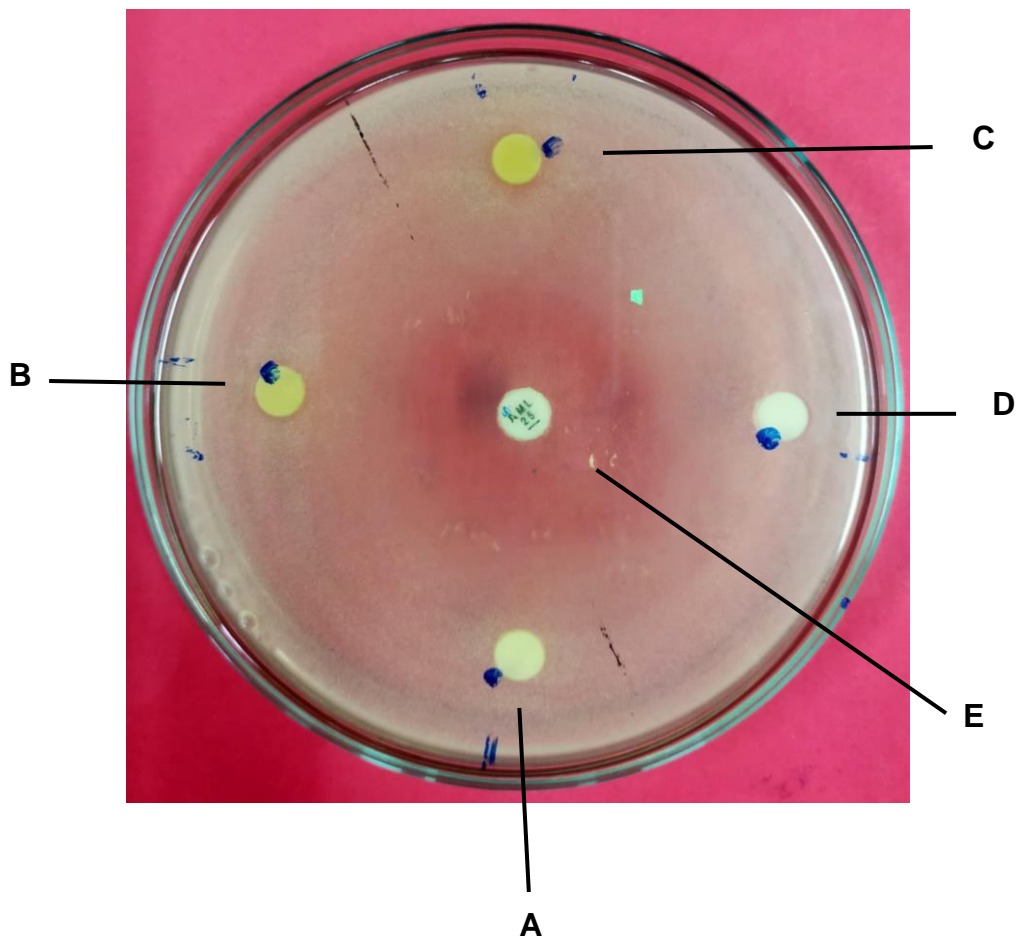
$$x \cdot 1000 \text{ gram/ml} = 3800 \text{ gram/ml}$$

$$x = \frac{3800}{1000} = 3,8$$

Medium NA yang digunakan adalah 3,8 gram

Jadi aquadest yang ditambahkan = 100 ml

#### Lampiran 4. Uji Aktivitas Antimikroba



Ket :

A : Konsentrasi sampel 2.5%

B : Konsentrasi sampel 5%

C : Konsentrasi sampel 10%

D : Konsentrasi sampel Kontrol Negatif %

E : Konsentrasi sampel Kontrol Positif

## Lampiran 5. Data Molekuler Gen 16s rRNA

### Protocol Species Barcoding 16S GMS-1510



#### PROTOCOL SPECIES BARCODING 16S GMS-1510

1. Genomic DNA extraction using Quick-DNA Fungal/Bacterial Miniprep Kit (Zymo Research, D6005)
2. Amplification PCR using (2x) My Taq HS Red Mix (Bioline, BIO-25048)

#### PCR REACTION

PCR Master Mix:

Components	1 x 25µl
dd H <sub>2</sub> O	9.5
MyTaq HS Red Mix, 2x	12.5
10 µM 27F Primer*	1
10 µM 1492R Primer**	1
DNA Template	1

\*Sequence 27F: AGAGTTTGATCMTGGCTCAG

\*\* Sequence 1492R: TACGGYTACCTTGTACGACTT

PCR Condition:

Step	Temperature (°C)	Duration	Cycles
Initial Denaturation	95	3 min	1
Denaturation	95	15 sec	35
Annealing	52	30 sec	
Extension	72	45 sec	
Final Extension	72	3 min	1
Hold	4	=	1

3. Bi-directional Sequencing

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