

LAMPIRAN A

1. Luasan Penempelan *Biofouling* (%)

$$\frac{\text{Luas Penempelan}}{\text{Luas panel uji}} \times 100\%$$

1. Variasi 1 J : 1 K

$$\frac{468\text{cm}^2}{782\text{cm}^2} \times 100\% = 59,8\%$$

2. Variasi 1 K : 2 J

$$\frac{621\text{cm}^2}{782\text{cm}^2} \times 100\% = 79,4\%$$

3. Variasi 1 K : 3 J

$$\frac{541\text{cm}^2}{782\text{cm}^2} \times 100\% = 69,1\%$$

4. Variasi 1 J : 2 K

$$\frac{467\text{cm}^2}{782\text{cm}^2} \times 100\% = 59,7\%$$

5. Variasi 1 J : 3 K

$$\frac{529\text{cm}^2}{782\text{cm}^2} \times 100\% = 67,6\%$$

6. Variasi 1 J : 4 K

$$\frac{433\text{cm}^2}{782\text{cm}^2} \times 100\% = 55,3\%$$

7. Full Ekstrak Daun Ketapang

$$\frac{510cm^2}{782cm^2} \times 100\% = 65,2\%$$

8. Full Ekstrak Daun Jambu Biji

$$\frac{578cm^2}{782cm^2} \times 100\% = 73,9\%$$

9. Tanpa Tanin

$$\frac{702cm^2}{782cm^2} \times 100\% = 89,7\%$$

2. Pengukuran Biomasa

- Variasi 1 J : 1 K
489 gram – 205 gram = 284 gram
- Variasi 1 K : 2 J
565 gram – 205 gram = 360 gram
- Variasi 1 K : 3 J
518 gram – 205 gram = 313 gram
- Variasi 1 J : 2 K
295 gram – 205 gram = 295 gram
- Variasi 1 J : 3 K
523 gram – 205 gram = 318 gram
- Variasi 1 J : 4 K
469 gram – 205 gram = 264 gram
- Full Ekstrak Daun Ketapang
477 gram – 205 gram = 272 gram
- Full Ekstrak Daun Jambu Biji
517 gram – 205 gram = 312 gram

9. Tanpa Tanin

$$570 \text{ gram} - 205 \text{ gram} = 365 \text{ gram}$$

3. Kepadatan / Kelimpahan

$$B = \frac{T}{A \times S} \times P =$$

1. *Dentalium Vulgare*

$$B = \frac{1}{782 \times 9} \times 8521$$

$$B = \frac{8521}{7038 \text{ cm}}$$

$$B = \frac{8521}{70,38 \text{ m}} = 121$$

2. *Balanus Amphitre*

$$B = \frac{1}{782 \times 9} \times 1179$$

$$B = \frac{1179}{7038 \text{ cm}}$$

$$B = \frac{1179}{70,38 \text{ m}} = 16$$

3. *Fine-net Peristernia*

$$B = \frac{1}{782 \times 9} \times 8$$

$$B = \frac{8}{7038 \text{ cm}}$$

$$B = \frac{8}{70,38 \text{ m}} = 0,11$$

4. Indeks Keragaman

$$1. H' = -\left[\left(\frac{8521}{9708}\right) \times \ln 8521/9708\right] + \left(\frac{1179}{9708}\right) \times \ln 1179/9708 + \left(\frac{8}{9708}\right) \times \ln 8/9708$$
$$H' = -[(-0,11447) + (-0,25604) + (-0,00585)]$$
$$H' = -[-037637]$$
$$H' = 0,37$$

5. Indeks Dominasi

$$1. D = \sum (ni/N)^2$$
$$D = \left(\frac{8521+1179+8}{9708}\right)^2$$
$$D = \left(\frac{9708}{9708}\right)^2$$
$$D = 1$$

6. Indeks Kemerataan

$$1. E = \frac{H'}{\ln S} = \frac{0,376365}{1,098612} = 0,342583$$

7. Uji Tanin

Keterangan :

V_1 = Volume titrasi $FeCl_3$

V_2 = Volume Ekstrak

$$M_1 = \frac{1\%}{Mr FeCl_3 (162,5)} = 0,006$$

1. Daun Ketapang

$$V_1 \cdot M_1 = V_2 \cdot M_2$$

$$0,4 \cdot 0,006 = 2 \text{ ml} \cdot M_2 = \underline{0,0012 \text{ mol}}$$

2. Daun Jambu Biji

$$V_1 \cdot M_1 = V_2 \cdot M_2$$

$$0,1 \cdot 0,006 = 2 \text{ ml} \cdot M_2 = \underline{0,0003 \text{ mol}}$$

LAMPIRAN B
Dokumentasi Kegiatan



Proses Pembuatan Substrat Uji



Proses Pembuatan Substrat Uji



Proses Penimbangan Simplisia



Proses Pencacahan Bahan



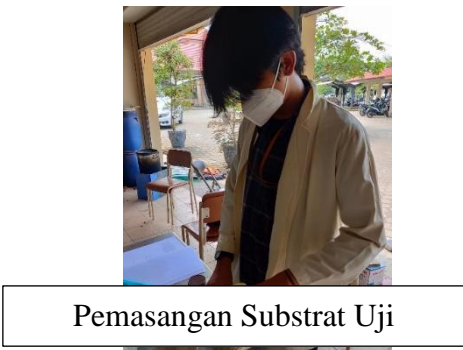
Pengambilan Bahan Baku



Pengukuran Parameter Lingkungan



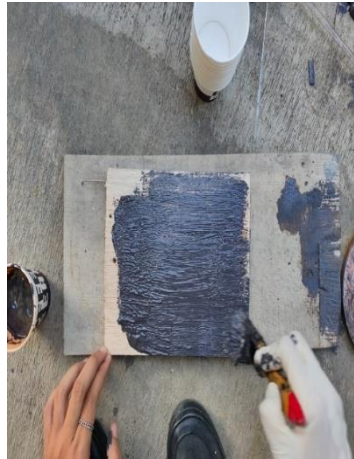
Penggeringan Bahan Baku



Pemasangan Substrat Uji

Pengayakan Simplisia

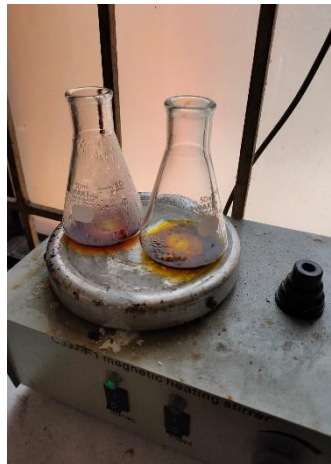
Proses Maserasi



Proses Pengecatan



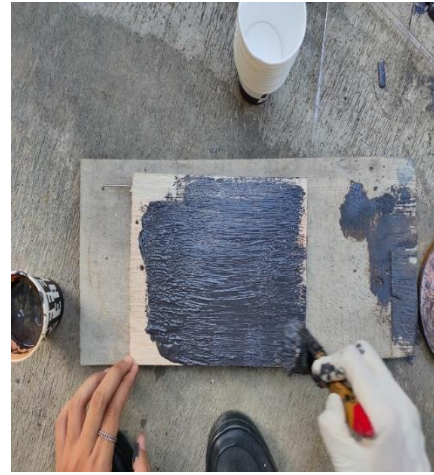
Proses Titrasi (Uji Tanin)



Proses Penguapan

LAMPIRAN C
Papan Uji dan Produk Cat *Antifouling*

Substrat Uji / Papan Kayu



Produk Cat *Antifouling*



BIODATA PENULIS



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Riwayat Pendidikan	Tahun
TK Pembina	2005-2006
SD Negeri 06 Cilacap	2006-2012
SMP Negeri 08 Cilacap	2012-2015
SMA AL-IRSYAD Cilacap	2015-2018