**Lampiran 1.** Surat Hasil Identifikasi Sampel Daun Dadap Serep

**Lampiran 2.** Tumbuhan Dadap Serep (*Erythrina variegata* Hassk.)



Tumbuhan Dadap Serep (*Erythrina variegata* Hassk.)



Daun Segar Dadap Serep (*Erythrina variegata* Hassk.)

**Lampiran 3.** Serbuk Simplisia dan Ekstrak Etanol Daun dadap serep (*Erythrina variegata* Hassk.)

Serbuk simplisia daun dadap serep (*Erythrinae variegatae* Folium)



Ekstrak etanol daun dadap serep (*Erythrina variegata*)

**Lampiran 4.** Bagan Alir Pembuatan Simplisia Daun Dadap Serep (*Erythrina variegata* Hassk.*)*

Daun Dadap Serep

Disortasi basah

Dicuci dengan air mengalir

Ditiriskan

Dikeringkan dengan cara

diangain-anginkan

Ditimbang

Daun Dadap Serep

Dikeringkan di lemari pengering suhu 40°C

Disortasi kering

Ditimbang kembali

Simplisia

Dihaluskan menggunakan blender

Dimasukkan ke dalam wadah

tertutup

Serbuk Simplisia

Karakteristik Simplisia

* Kadar air
* Kadar sari larut

dalam etanol

* Kadar abu total
* Kadar abu tidak

larut asam

* Makroskopik simplisia
* Mikroskopik simplisia

SkriningFitokimia

* Alkaloid
* Flavonoid
* Saponin
* Tannin
* Steroid/triterpenoid
* Etanol

**Lampiran 5.** Bagan Alir Pembuatan Ekstrak Etanol Daun Dadap Serep

1.2 kg serbuk daun dadap serep

Dimasukan kedalam wadah

Direndam dengan etil asetat 9 liter

Didiamkan selama 5 hari

Disaring

Maserat I

Ampas I

Dibilas dengan etanol

3 liter

Maserat II

Ampas II

Maserat I dan II

Didiamkan selama 2 hari, dienaptuangkan

Ekstrak cair

Diuapkan dengan alat rotary evaporator

Ekstrak kental

**Lampiran 6.** Bagan Alir Pembuatan Inokulum Bakteri

Strain Murni

Diambil dengan jarum ose steril

Ditanam pada media agar miring NA

Diinkubasi pada suhu 35-370 C

Stok Kultur

Diambil dengan jarum ose steril

Disuspensi dalam 10 ml larutan NaCl 0,9% steril

Dihomogenkan sampai kekeruhan yang sama dengan Mc.Farland

Suspensi bakteri 108 CFU/ml

Dipipet 0,1 ml ke dalam tabung reaksi steril

Ditambahkan 9,9 ml NaCl 0,9% steril dan dihomogenkan

Suspensi bakteri 106 CFU/ml

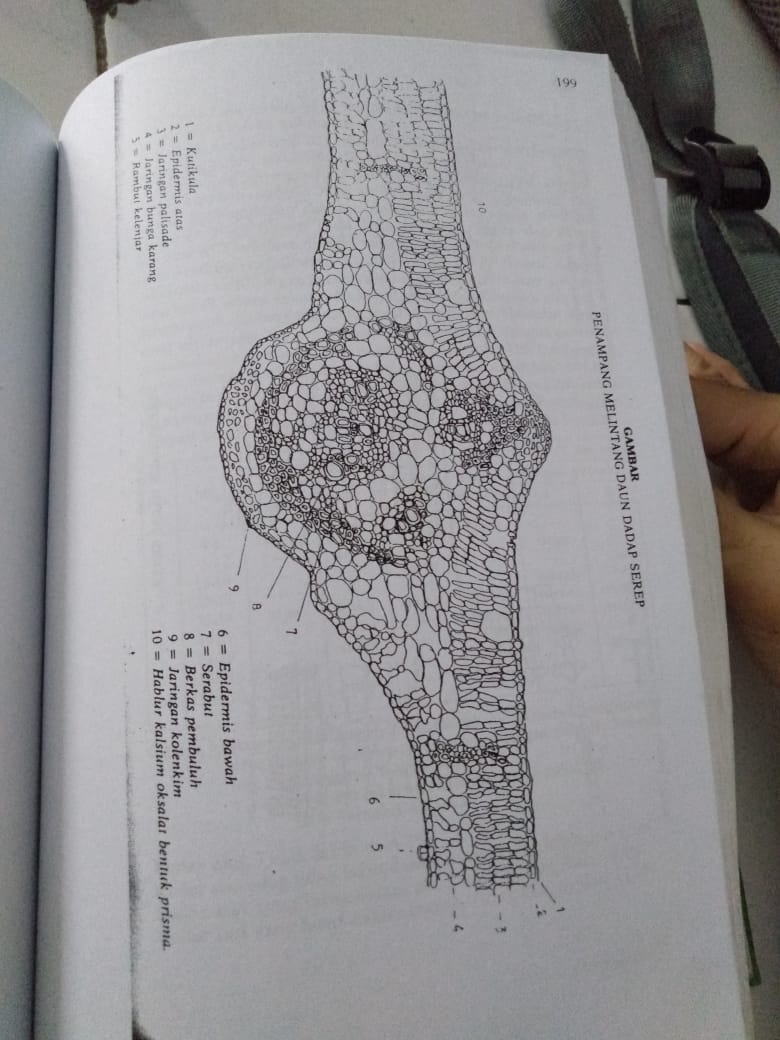
**Lampiran 7.** Mikroskopik Daun Dadap Serep



Stomata

Serabut

Berkas Pembuluh

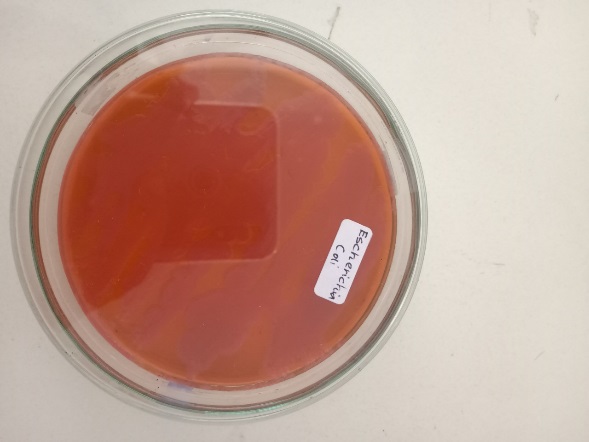
****Daun dadap serep secara mikroskopik

Mikroskopik Daun Dadap Serep Menurut MMI

**Lampiran 8.** Hasil Uji Spesifik Bakteri *Staphylococcus aureus* dan *Escherichia coli*

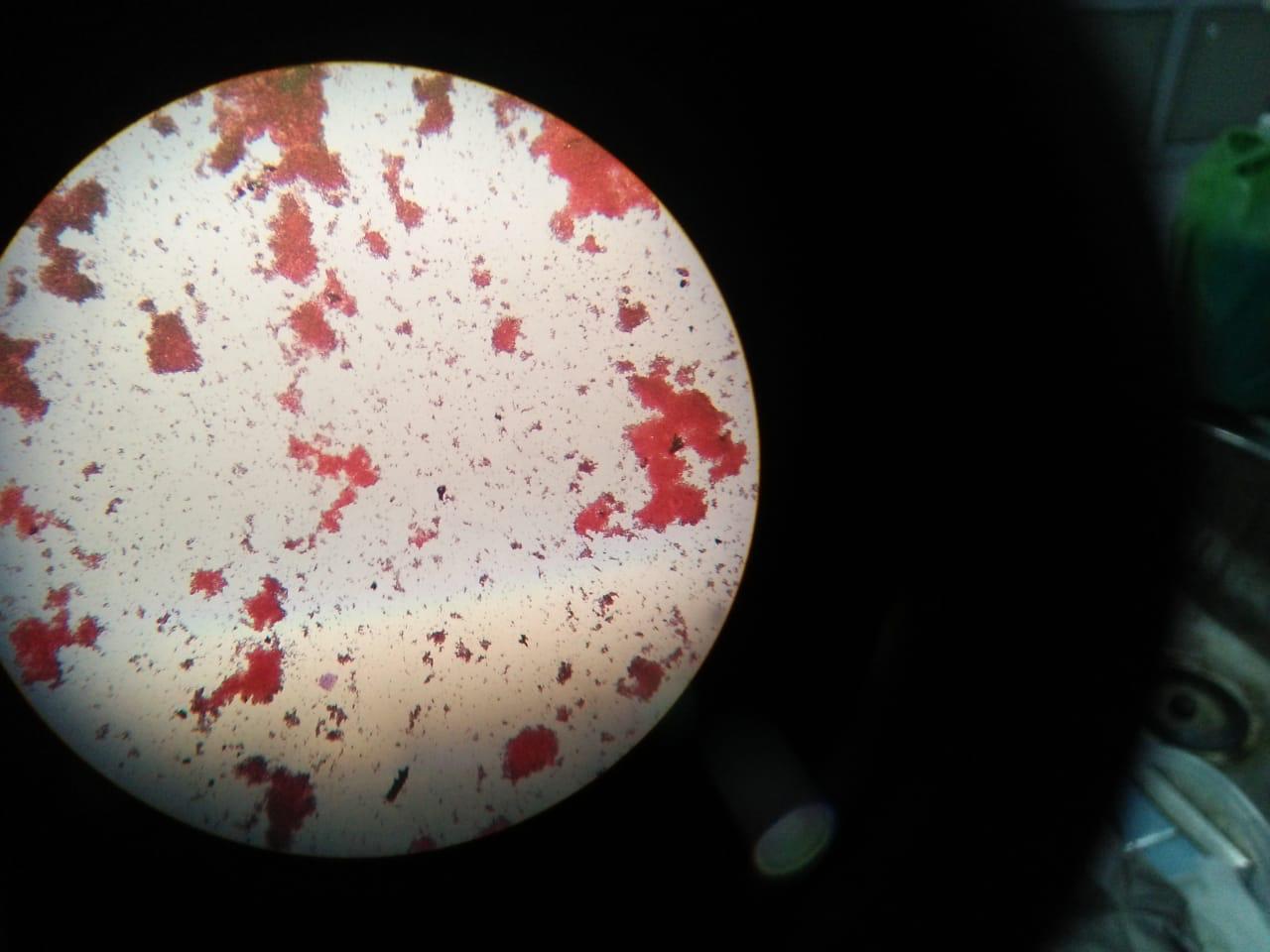


Bakteri *Staphylococcus aureus*

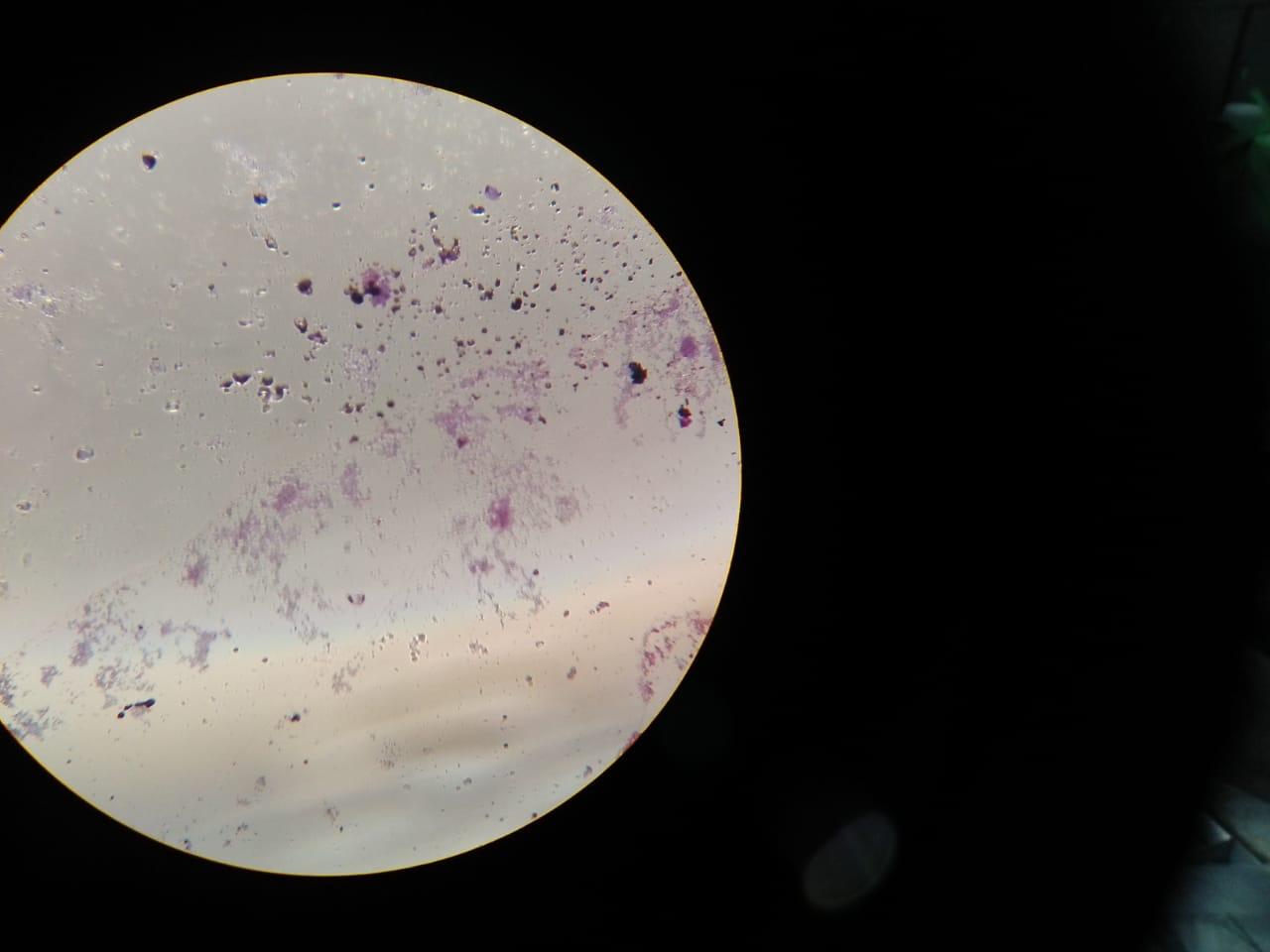


Bakteri *Escherichia coli*

**Lampiran 9.** Hasil Mikroskopik Pewarnaan Bakteri

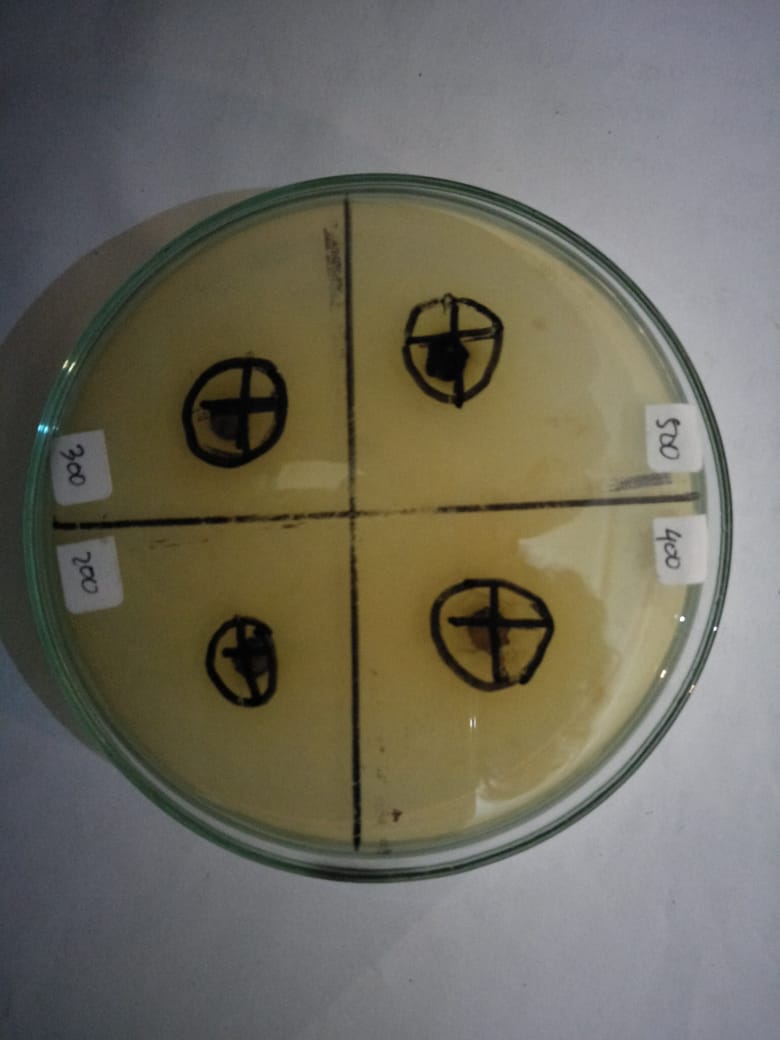
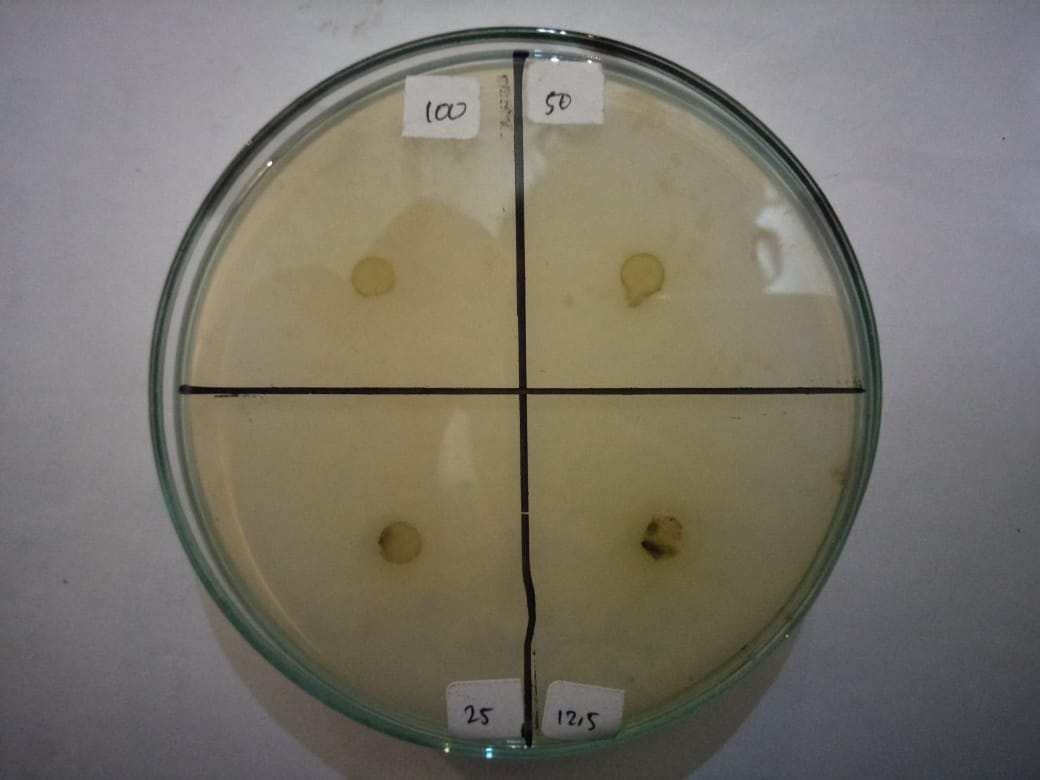


Bakteri *Escherichia coli*



Bakteri *Staphylococcus aureus*

**Lampiran 10.** Hasil Uji Aktivitas Antibakteri



F

E

B

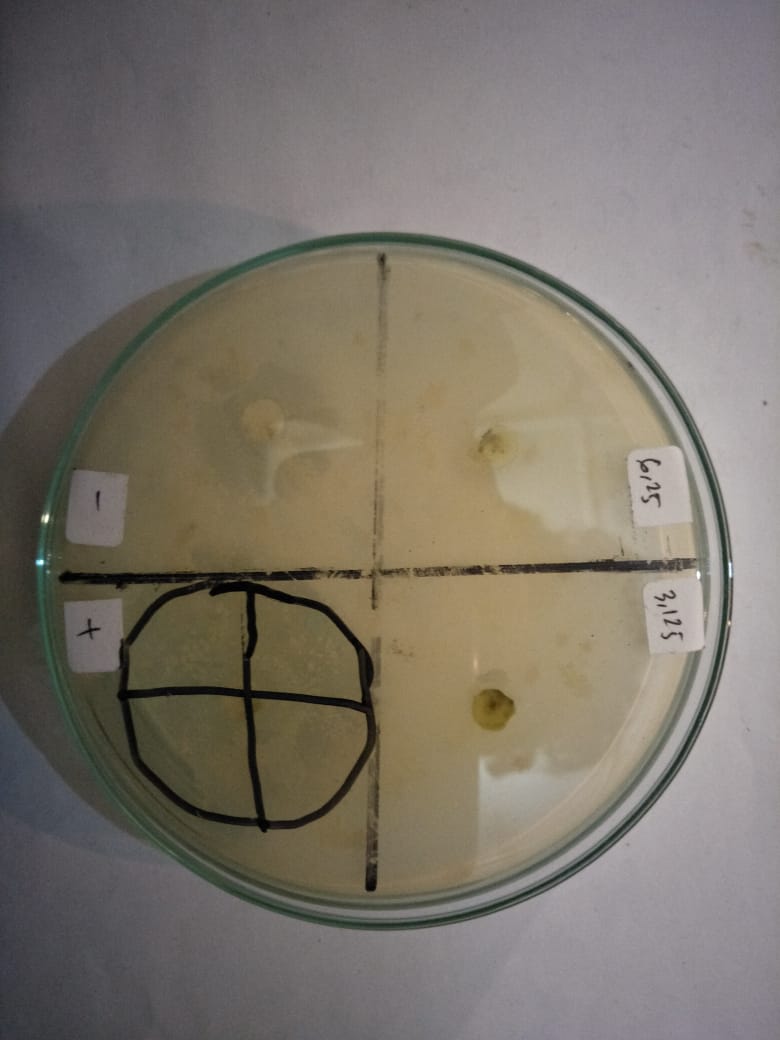
A

H

G

D

C



J

I

K

L

Ekstrak Etanol Daun Dadap Serep Terhadap Bakteri *Escherichia coli*

Keterangan : A. Konsentrasi 500 mg/ml I. Konsentrasi 6,25 mg/ml

B. Konsentrasi 400 mg/ml J. Konsentrasi 3,125 mg/ml

C. Konsentrasi 300 mg/ml K. Kontrol Positif

D. Konsentrasi 200 mg/ml L. Kontrol Negatif

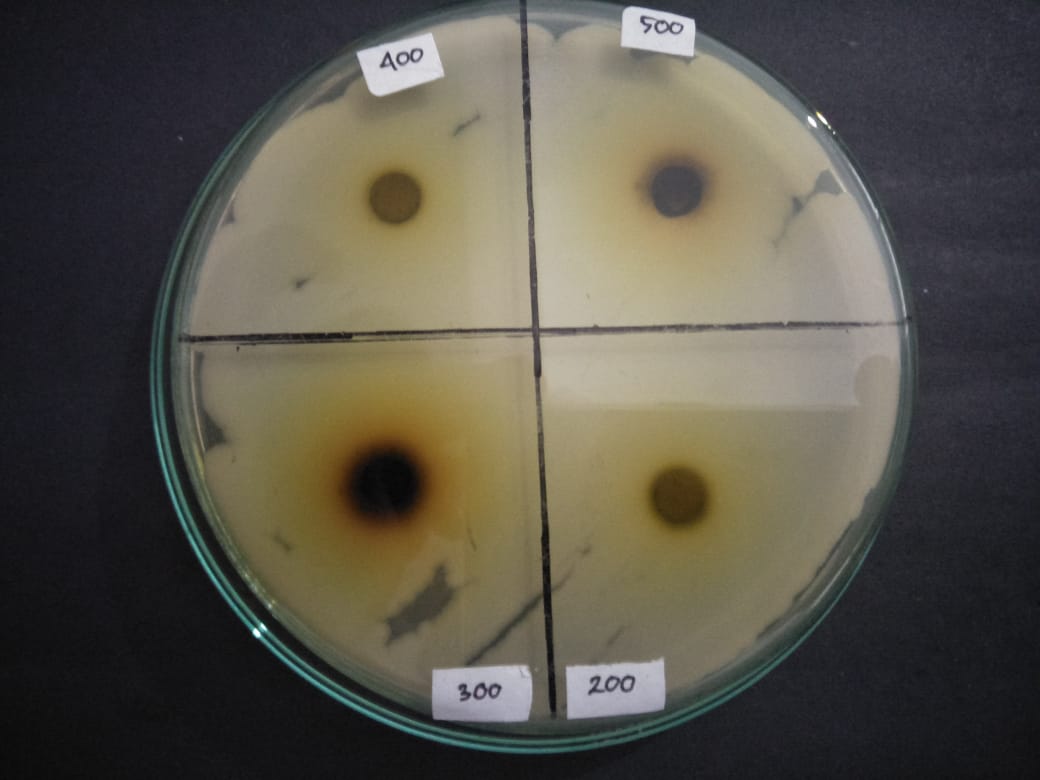
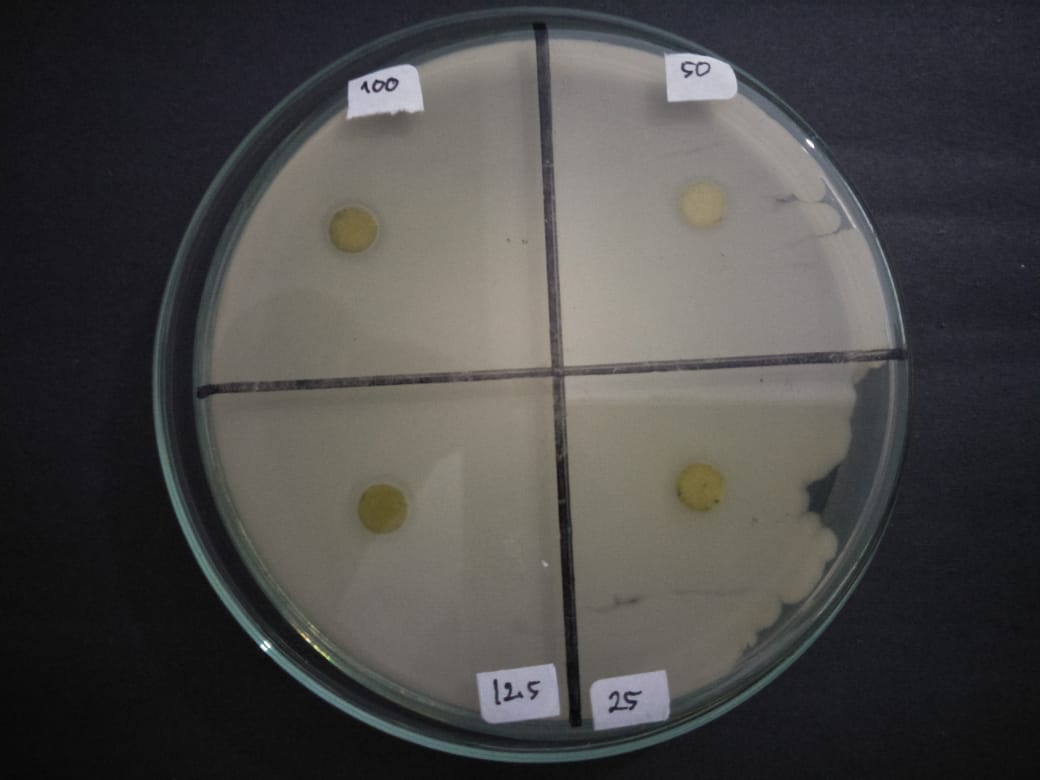
E. Konsentrasi 100 mg/ml

F. Konsentrasi 50 mg/ml

G. Konsentrasi 25 mg/ml

H. Konsentrasi 12,5 mg/ml

**Lampiran 10.** *Lanjutan*



F

B

A

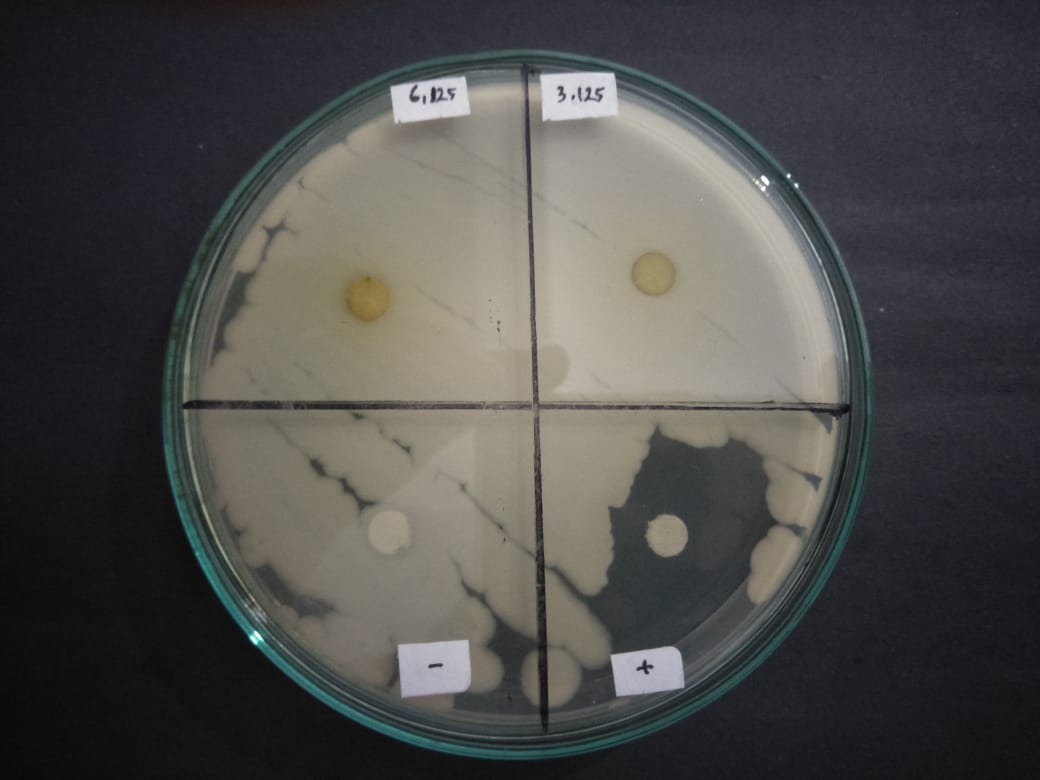
E

H

G

D

C



J

I

K

L

Ekstrak Etanol Daun Dadap Serep Terhadap Bakteri *Staphylococcus aureus*

Keterangan : A. Konsentrasi 500 mg/ml I. Konsentrasi 6,25 mg/ml

B. Konsentrasi 400 mg/ml J. Konsentrasi 3,125 mg/ml

C. Konsentrasi 300 mg/ml K. Kontrol Positif

D. Konsentrasi 200 mg/ml L. Kontrol Negatif

E. Konsentrasi 100 mg/ml

F. Konsentrasi 50 mg/ml

G. Konsentrasi 25 mg/ml

H. Konsentrasi 12,5 mg/ml

**Lampiran 11.** Perhitungan Karakterisasi

1. Penetapan Kadar Air

Kadar air = x 100%

1. Sampel l

* Berat sampel = 5 gram
* V1 = 0,4 ml
* V2 = 0,7 ml

Kadar air = = 6%

1. sampel 2

* Berat sampel = 5 gram
* V1 = 0,3 ml
* v2 = 0,5 ml

Kadar air = = 4%

1. Sampel 3

* Berat sampel = 5 gram
* V1 = 0,5
* V2 = 0,8

Kadar air = = 6%

Kadar air rata-rata =

**Lampiran 11**. (Lanjutan)

1. Penetapan Kadar Sari Larut Air

Kadar sari larut air =

1. Sampel l

* Berat sampel = 5 gram
* Kadar sari larut air = %

1. Sampel 2

* Berat sampel = 5 gram
* Kadar sari larut air =

1. Sampel 3

* Berat sampel = 5 gram
* Kadar sari larut air =

Kadar sari larut air rata-rata =

**Lampiran 11.** (Lanjutan)

1. Penetapan kadar sari larut etanol
2. Sampel l

Kadar sari larut etanol =

* Berat sampel : 5 g
* Kadar sari larut etanol = %

1. Sampel 2

* Berat sampel : 5 g
* Kadar sari larut etanol =

1. Sampel 3

* Berat sampel : 5 g
* Kadar sari larut etanol =

Kadar sari larut etanol rata-rata =

**Lampiran 11. (**Lanjutan)

1. Penetapan Kadar abu total

Kadar abu total =

1. sampel l

* Berat sampel = 2g
* Kadar abu total =

1. Sampel 2

* Berat sampel = 2 g
* Kadar abu total =

1. Sampel 3

* Berat sampel = 2 g
* Kadar abu total =

Kadar abu total rata-rata =

**Lampiran 11.** (Lanjutan)

1. Penetapan Kadar Abu Tidak Larut Asam

% Kadar abu tidak larut asam =

1. Sampel 1

* Berat sampel = 2 g
* Kadar tidak larut asam =

1. Sampel 2

* Berat sampel = 2 g
* Kadar tidak larut asam =

1. Sampel 3

* Berat sampel = 2 g
* Kadar tidak larut asam =

% kadar abu tidak larut asam rata-rata =

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Lampiran 12.** Hasil Data Statistik  **Descriptives** | | | | | | | | | |
|  | | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
| Lower Bound | Upper Bound |
| Staphylococcus aureus | kontrol negatif | 3 | ,0000 | ,00000 | ,00000 | ,0000 | ,0000 | ,00 | ,00 |
| kontrol positif | 3 | 33,6667 | 1,04083 | ,60093 | 31,0811 | 36,2522 | 32,50 | 34,50 |
| kons. 500 | 3 | 13,6667 | ,76376 | ,44096 | 11,7694 | 15,5640 | 13,00 | 14,50 |
| kons. 400 | 3 | 14,6667 | 1,04083 | ,60093 | 12,0811 | 17,2522 | 13,50 | 15,50 |
| kons. 300 | 3 | 13,5000 | 1,32288 | ,76376 | 10,2138 | 16,7862 | 12,00 | 14,50 |
| kons. 200 | 3 | 11,0000 | 1,00000 | ,57735 | 8,5159 | 13,4841 | 10,00 | 12,00 |
| kons. 100 | 3 | ,0000 | ,00000 | ,00000 | ,0000 | ,0000 | ,00 | ,00 |
| kons. 50 | 3 | ,0000 | ,00000 | ,00000 | ,0000 | ,0000 | ,00 | ,00 |
| kons. 25 | 3 | ,0000 | ,00000 | ,00000 | ,0000 | ,0000 | ,00 | ,00 |
| kons. 12,5 | 3 | ,0000 | ,00000 | ,00000 | ,0000 | ,0000 | ,00 | ,00 |
| kons. 6,25 | 3 | ,0000 | ,00000 | ,00000 | ,0000 | ,0000 | ,00 | ,00 |
| kons. 3,125 | 3 | ,0000 | ,00000 | ,00000 | ,0000 | ,0000 | ,00 | ,00 |
| Total | 36 | 7,2083 | 10,22069 | 1,70345 | 3,7501 | 10,6665 | ,00 | 34,50 |
| E.coli | kontrol negatif | 3 | ,0000 | ,00000 | ,00000 | ,0000 | ,0000 | ,00 | ,00 |
| kontrol positif | 3 | 20,1667 | 6,21155 | 3,58624 | 4,7363 | 35,5970 | 13,00 | 24,00 |
| kons. 500 | 3 | 13,5000 | 2,29129 | 1,32288 | 7,8081 | 19,1919 | 11,50 | 16,00 |
| kons. 400 | 3 | 10,1667 | 1,04083 | ,60093 | 7,5811 | 12,7522 | 9,00 | 11,00 |
| kons. 300 | 3 | 13,0000 | ,50000 | ,28868 | 11,7579 | 14,2421 | 12,50 | 13,50 |
| kons. 200 | 3 | 9,5000 | 1,80278 | 1,04083 | 5,0217 | 13,9783 | 7,50 | 11,00 |
| kons. 100 | 3 | ,0000 | ,00000 | ,00000 | ,0000 | ,0000 | ,00 | ,00 |
| kons. 50 | 3 | ,0000 | ,00000 | ,00000 | ,0000 | ,0000 | ,00 | ,00 |
| kons. 25 | 3 | ,0000 | ,00000 | ,00000 | ,0000 | ,0000 | ,00 | ,00 |
| kons. 12,5 | 3 | ,0000 | ,00000 | ,00000 | ,0000 | ,0000 | ,00 | ,00 |
| kons. 6,25 | 3 | ,0000 | ,00000 | ,00000 | ,0000 | ,0000 | ,00 | ,00 |
| kons. 3,125 | 3 | ,0000 | ,00000 | ,00000 | ,0000 | ,0000 | ,00 | ,00 |
| Total | 36 | 5,5278 | 7,27318 | 1,21220 | 3,0669 | 7,9887 | ,00 | 24,00 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Normalitya,c,d,e,f,g,h,i,j,k,l,m,n,o** | | | | | | | |
|  | perlakuan | Kolmogorov-Smirnovb | | | Shapiro-Wilk | | |
|  | Statistic | df | Sig. | Statistic | df | Sig. |
| Staphylococcus aureus | kontrol positif | ,292 | 3 | . | ,923 | 3 | ,463 |
| kons. 500 | ,253 | 3 | . | ,964 | 3 | ,637 |
| kons. 400 | ,292 | 3 | . | ,923 | 3 | ,463 |
| kons. 300 | ,314 | 3 | . | ,893 | 3 | ,363 |
| kons. 200 | ,175 | 3 | . | 1,000 | 3 | 1,000 |
| E.coli | kontrol positif | ,371 | 3 | . | ,784 | 3 | ,077 |
| kons. 500 | ,253 | 3 | . | ,964 | 3 | ,637 |
| kons. 400 | ,292 | 3 | . | ,923 | 3 | ,463 |
| kons. 300 | ,175 | 3 | . | 1,000 | 3 | 1,000 |
| kons. 200 | ,276 | 3 | . | ,942 | 3 | ,537 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | | | | |
|  | | | | Sum of Squares | df | Mean Square | F | Sig. |
| Staphylococcus aureus | Between Groups | (Combined) | | 3645,188 | 11 | 331,381 | 723,012 | ,000 |
| Linear Term | Contrast | 1437,337 | 1 | 1437,337 | 3136,008 | ,000 |
| Deviation | 2207,851 | 10 | 220,785 | 481,713 | ,000 |
| Within Groups | | | 11,000 | 24 | ,458 |  |  |
| Total | | | 3656,188 | 35 |  |  |  |
| E.coli | Between Groups | (Combined) | | 1754,639 | 11 | 159,513 | 39,535 | ,000 |
| Linear Term | Contrast | 738,855 | 1 | 738,855 | 183,124 | ,000 |
| Deviation | 1015,783 | 10 | 101,578 | 25,176 | ,000 |
| Within Groups | | | 96,833 | 24 | 4,035 |  |  |
| Total | | | 1851,472 | 35 |  |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Staphylococcus aureus** | | | | | |
| Duncana | | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | | |
| 1 | 2 | 3 | 4 |
| kontrol negatif | 3 | ,0000 |  |  |  |
| kons. 100 | 3 | ,0000 |  |  |  |
| kons. 50 | 3 | ,0000 |  |  |  |
| kons. 25 | 3 | ,0000 |  |  |  |
| kons. 12,5 | 3 | ,0000 |  |  |  |
| kons. 6,25 | 3 | ,0000 |  |  |  |
| kons. 3,125 | 3 | ,0000 |  |  |  |
| kons. 200 | 3 |  | 11,0000 |  |  |
| kons. 300 | 3 |  |  | 13,5000 |  |
| kons. 500 | 3 |  |  | 13,6667 |  |
| kons. 400 | 3 |  |  | 14,6667 |  |
| kontrol positif | 3 |  |  |  | 33,6667 |
| Sig. |  | 1,000 | 1,000 | ,056 | 1,000 |
| Means for groups in homogeneous subsets are displayed. | | | | | |
| a. Uses Harmonic Mean Sample Size = 3,000. | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Escherichia coli** | | | | | |
| Duncana | | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | | |
| 1 | 2 | 3 | 4 |
| kontrol negatif | 3 | ,0000 |  |  |  |
| kons. 100 | 3 | ,0000 |  |  |  |
| kons. 50 | 3 | ,0000 |  |  |  |
| kons. 25 | 3 | ,0000 |  |  |  |
| kons. 12,5 | 3 | ,0000 |  |  |  |
| kons. 6,25 | 3 | ,0000 |  |  |  |
| kons. 3,125 | 3 | ,0000 |  |  |  |
| kons. 200 | 3 |  | 9,5000 |  |  |
| kons. 400 | 3 |  | 10,1667 | 10,1667 |  |
| kons. 300 | 3 |  | 13,0000 | 13,0000 |  |
| kons. 500 | 3 |  |  | 13,5000 |  |
| kontrol positif | 3 |  |  |  | 20,1667 |
| Sig. |  | 1,000 | ,053 | ,065 | 1,000 |
| Means for groups in homogeneous subsets are displayed. | | | | | |
| a. Uses Harmonic Mean Sample Size = 3,000. | | | | | |