**Lampiran 1.** Hasil Identifikasi Tanaman Daun Cincau Hijau

*(Premna trichostoma* Miq.)



**Lampiran 2.** Hasil PemeriksaanMakroskopik Daun Cincau Hijau *(Premna trichostoma* Miq*.)*



Tumbuhan cincau hijau



Daun Cincau Hijau



Simplisia Daun Cincau Hijau

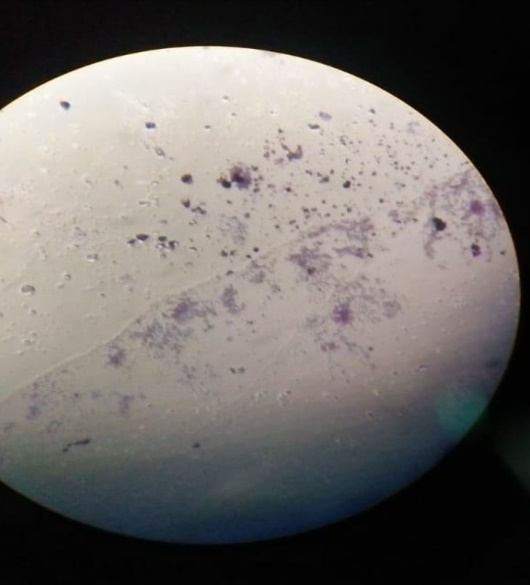
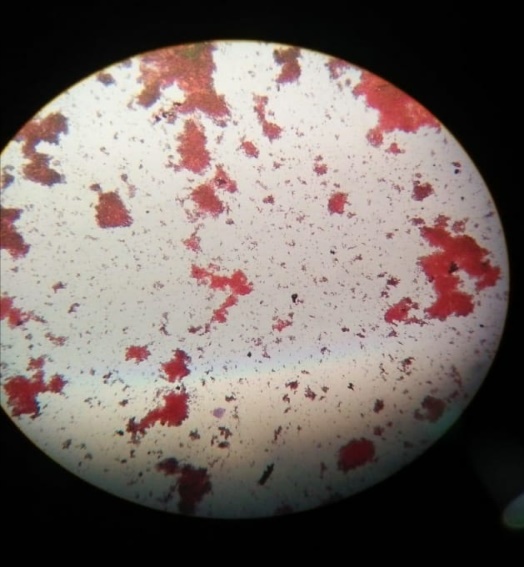
**Lampiran 3.** Serbuk, Maserasi Daun Cincau Hijau





Maserasi Daun cincau Hijau

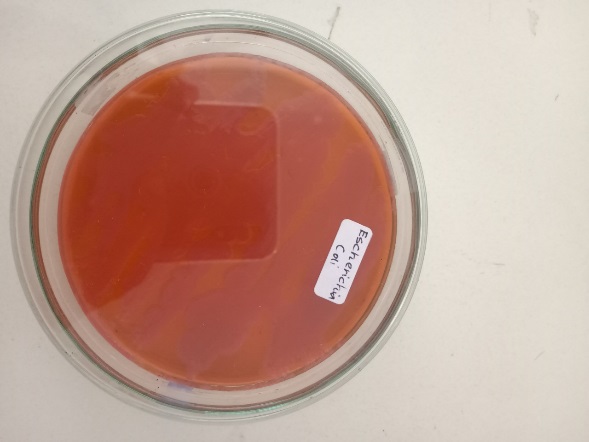
**Lampiran 4**. Hasil Identifikasi Bakteri dan Penanaman dalam Media Selektif



Mikroskopik Bakteri gram positif

Bakteri *Sthapylococcus aureus*

Mikroskopik Bakteri gram negatif Bakteri *Escherichia coli*

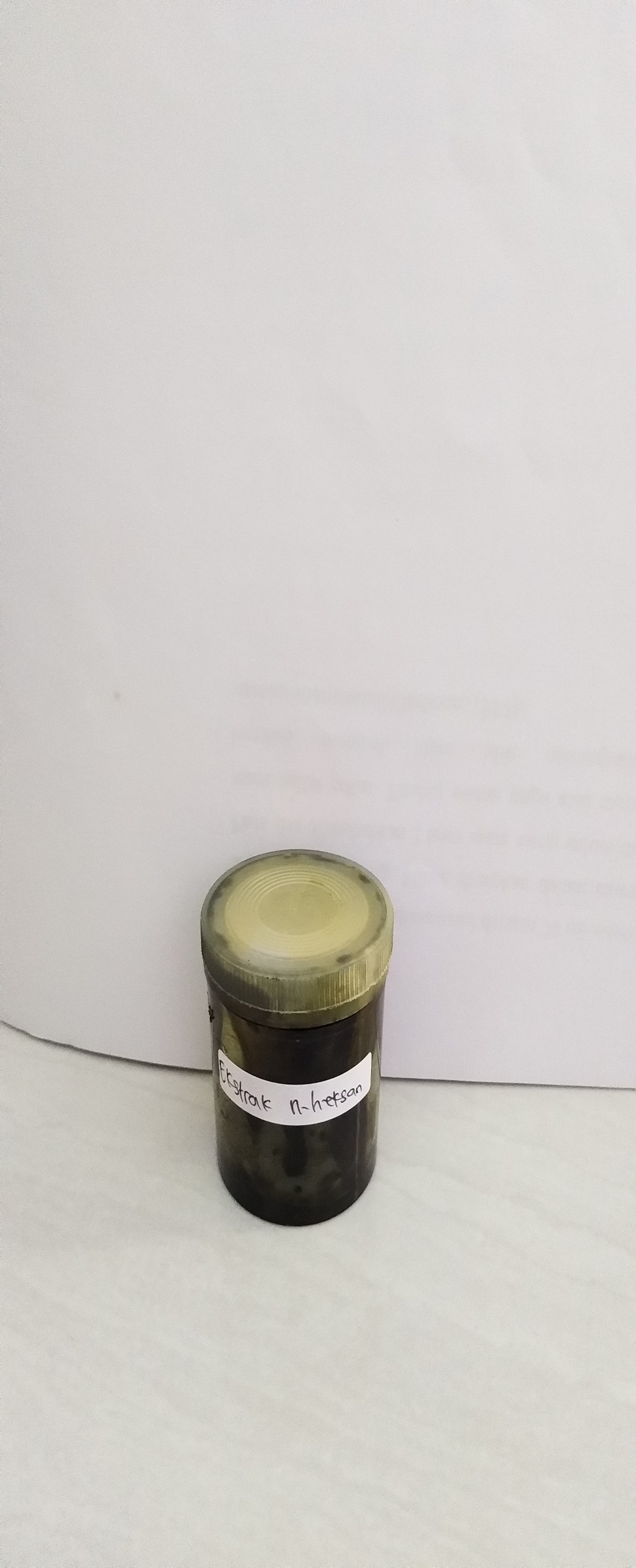
**

MEDIA EMB MEDIA MSA

(Bakteri *Escherichia coli*) (Bakteri *Sthapylococcus aureus*)

**Lampiran 5**. Ekstrak Etanol, Fraksi N-Heksan, Fraksi Kloroform



**Lampiran 6.** Rangkaian Alat Penetapan Kadar Air dan Rangkaian Alat Rotary Evaporator



Gambar: Alat Penetapan Kadar Air



Gambar: Alat Rotary Evaporator

**Lampiran 7**. Oven, Inkubator, Autoklaf dan Mikropipet

Oven Inkubator

** **

Autoklaf Mikropipet

**Lampiran 8.** Perhitungan Kadar Air

Kadar Air =

1. Sampel 1

Berat Sampel = 5 g

Volume I = 1,6, ml

Volume II = 1,9 ml

Kadar Air = = 6,00 %

1. Sampel 2

Berat Sampel = 5 g

Volume I = 1,7 ml

Volume II = 1,8 ml

Kadar Air = = 2,00 %

1. Sampel 3

Berat Sampel = 5 g

Volume I = 1,5 ml

Volume II = 1,9 ml

Kadar Air = = 8,00 %

Maka, kadar air rata-rata = = 5,33%

**Lampiran 9.** Bagan Alir Pembuatan Simplisia Daun Cincau Hijau

Daun Cincau Hijau segar

Disortasi basah

Dicuci dengan air mengalir

Ditiriskan

Ditimbang berat basahnya

Berat basah daun cincau hijau 5000 g

Dikeringkan dalam lemari pengering dengan suhu 40-60 ° C

Disortasi kering kemudian ditimbang kembali

Berat simplisia daun cincau hijau 1500 g

Dihaluskan daun cincau hijau kering, disimpan wadah tertutup

Berat serbuk simplisia 1370 g

Karakterisasi simplisia

Skrining Fitokimia

**Lampiran 10.** Bagan Alir Pembuatan Ekstrak

Serbuk Simplisia 800 g

Dimasukkan dalam bejana

Dibasahi dengan pelarut etanol 96 % sebanyak 1 L sambil diaduk hingga sampel basah merata

Diamkan 10 menit

Ditambahkan pelarut etanol 96 % sebanyak 5 L

Ditutup dan dibiarkan selama 5 hari sambil diaduk-aduk sesekali

Setelah 5 hari maserat diserkai dan ampasnya diperas

Ampas

Maserat

Dibilas dengan etanol 96 % sebanyak 2 L

Dimasukkan ke dalam bejana tertutup, selama 2 hari dan dienaptuangkan

Dipekatkan dengan rotary evaporator

pada suhu 60°C

Ekstrak kental : 162,6 g

**Lampiran 11.** Bagan Alir Fraksinasi N- heksan dan Klorofom

Ekstrak Etanol 130 gr

Ditambahkan sedikit pelarut etanol, diaduk hingga larut

Ditambahkan aquadest sebanyak 1,3 L , diaduk hingga larut

Ditambahkan N-heksan sebanyak 1,3 L, masukkan kedalam corong pisah, digojlok dan diamkan 24 jam hingga terbentuk 2 lapisan (3 kali pelakuan)

Lapisan Atas (Lapisan n-heksann)

Lapisan Bawah (Lapisan Air)

Dipekatkan dengan Rotary evaporator dengan suhu 68°C

Ditambahkan Klorofom sebanyak 1,3 L

Ekstrak kental Fraksi N-heksan 13,5 g

Digojlok, kemudian didiamkan selama 24 jam hingga terbentuk 2 lapisan (3 kali pengulangan)

Lapisan Bawah (Lapisan Kloroform)

Dipekatkan dengan Rotary evaporator dengan suhu 68°C

Ekstrak kental Fraksi Kloroform 14,50 g

**Lampiran 12.** Bagan Alir Identifikasi Bakteri

Bakteri Uji

Diambil sedikit, diletakkan diatas objek glass

Difiksasi diatas api bunsen

Ditetesi kristal violet, diamkan 30 detik, dibilas dengan air mengalir

Ditetesi larutan Iodium, diamkan 30 detik, dibilas dengan air mengalir, dikeringkan

Ditetesi alkohol, diamkan 20 detik, dibilas dengan air mengalir, dikeringkan

Ditetesi Safranin, diamkan 30 detik, dibilas dengan air mengalir, dikeringkan

Bakteri Gram positif berwarna ungu dan bakteri Gram negatif berwarna merah

Preparat diamati dibawah mikroskop

Bakteri *Sthapylococcus aureus* Gram positif berbentuk kokus tidak beraturan dan mirip karangan aggur dan bakteri *Escherichia coli* Gram negatif berbentuk batang

**Lampiran 13.** Bagan Alir Aktivitas Antibakteri

20 ml media MHA

Dimasukkan kedalam cawan petri steril

Didiamkan hingga memadat

Media Padat

Digoreskan suspensi bakteri *Escherichia coli* dan *Staphylococcus aureus* sampai merata

Dimasukkan Disk cakram yang telah ditetesi larutan uji dengan konsentrasi (500 mg/ml, 400 mg/ml, 300 mg/ml, 200 mg/ml, 100 mg/ml, 50 mg/ml, 25 mg/ml, 12,5 mg/ml, 6,25 mg/ml, 3,125 mg/ml) serta kontrol positif dan kontrol negatif

Diinkubasi pada suhu 36-37 ˚C selama 18-24 jam

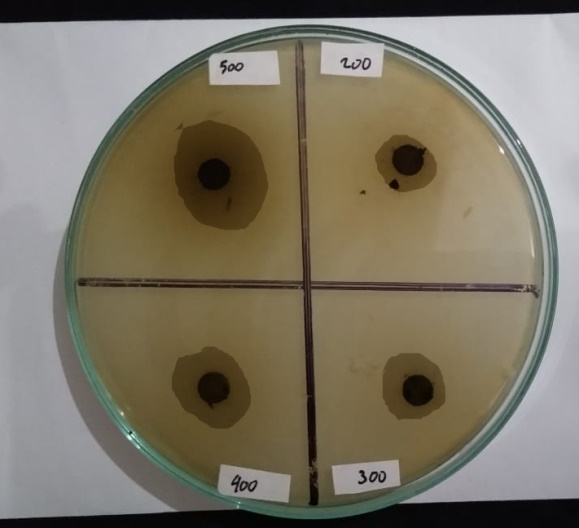
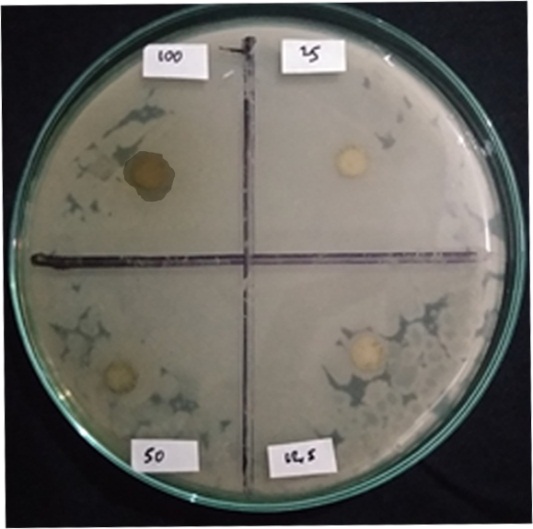
Diukur diameter zona bening

disekitar disk dengan jangka sorong

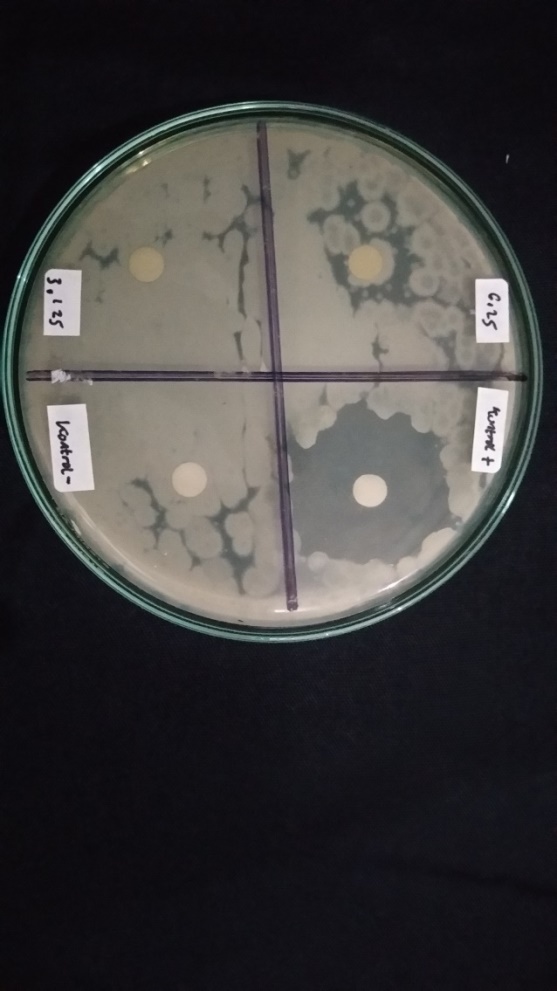
Hasil Diameter Hambat

**Lampiran 14.** Hasil uji aktivitas antibakteri ekstrak etanol daun cincau

hijau terhadap bakteri *Escherichia coli*

**A B**



**C**

Keterangan : **A** = Konsentrasi 500 mg/ml, 400 mg/ml, 300 mg/ml, 200 mg/ml

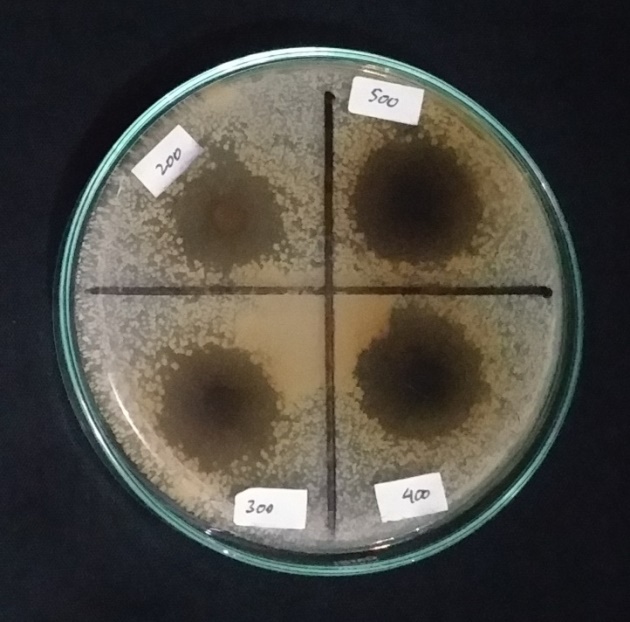
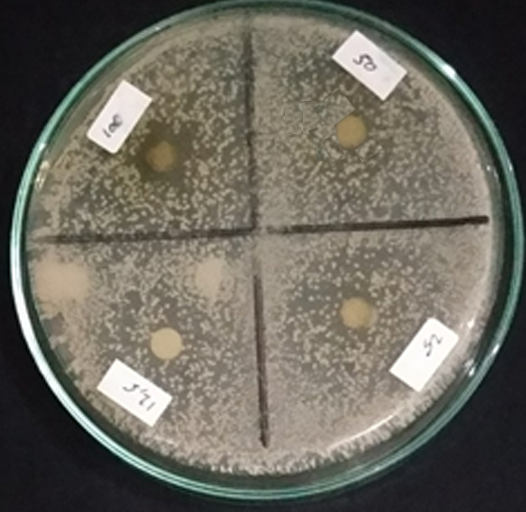
**B** = Konsentrasi 100 mg/ml, 50 mg/ml, 25 mg/ml, 12,5 mg/ml

**C** = Konsentrasi 6,25 mg/ml, 3,125 mg/ml, kontrol positif

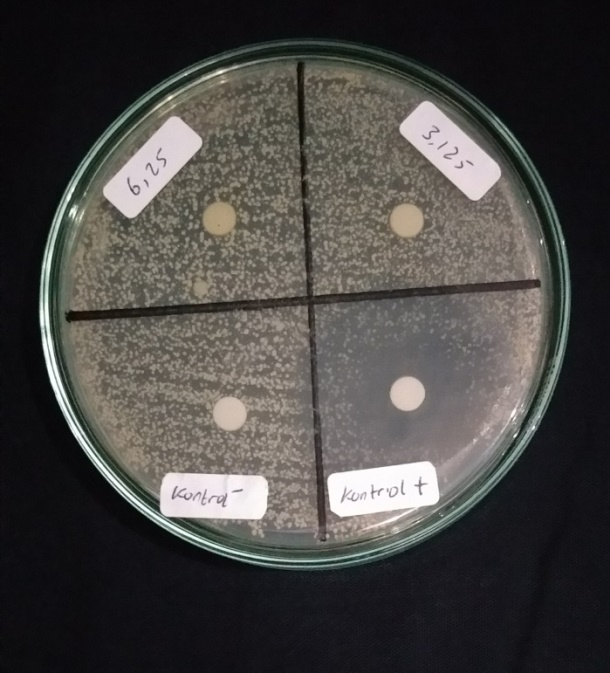
(Kloroform), kontrol negatif (etanol)

**Lampiran 15.** Hasil uji aktivitas antibakteri ekstrak etanol daun cincau

hijau terhadap bakteri *Staphylococcus aureus*

**A B**



**C**

Keterangan : **A** = Konsentrasi 500 mg/ml, 400 mg/ml, 300 mg/ml, 200 mg/ml

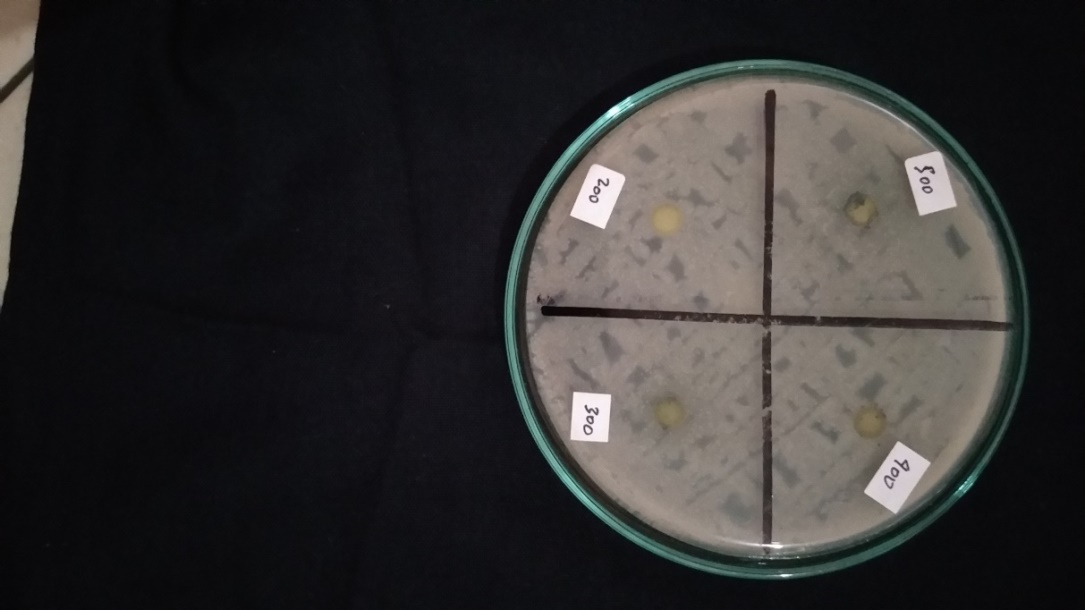
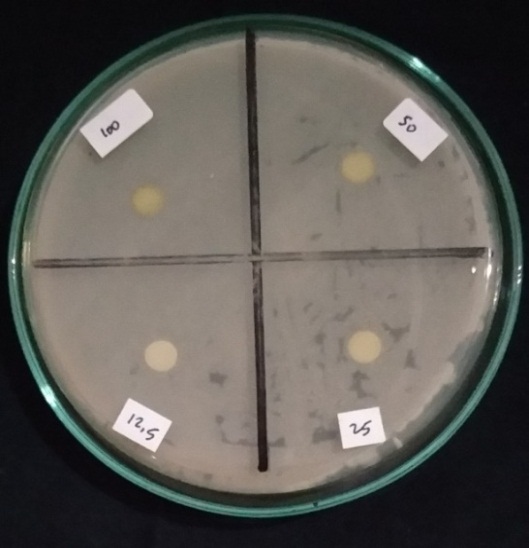
**B** = Konsentrasi 100 mg/ml, 50 mg/ml, 25 mg/ml, 12,5 mg/ml

**C** = Konsentrasi 6,25 mg/ml, 3,125 mg/ml, kontrol positif

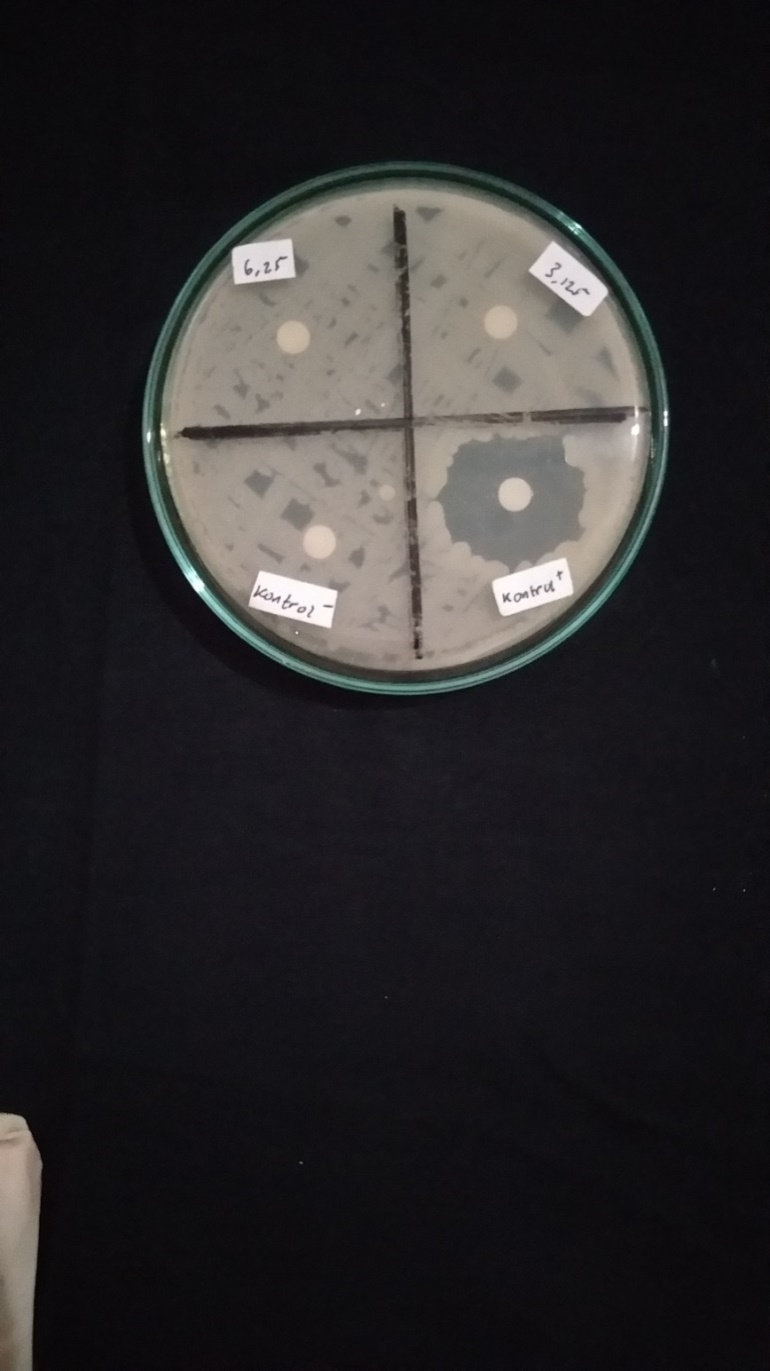
(Kloroform), kontrol negatif (etanol)

**Lampiran 16.** Hasil uji aktivitas antibakteri fraksi n-heksan daun cincau

hijau terhadap bakteri *Escherichia coli.*

**A B**



**C**

Keterangan : **A** = Konsentrasi 500 mg/ml, 400 mg/ml, 300 mg/ml, 200 mg/ml

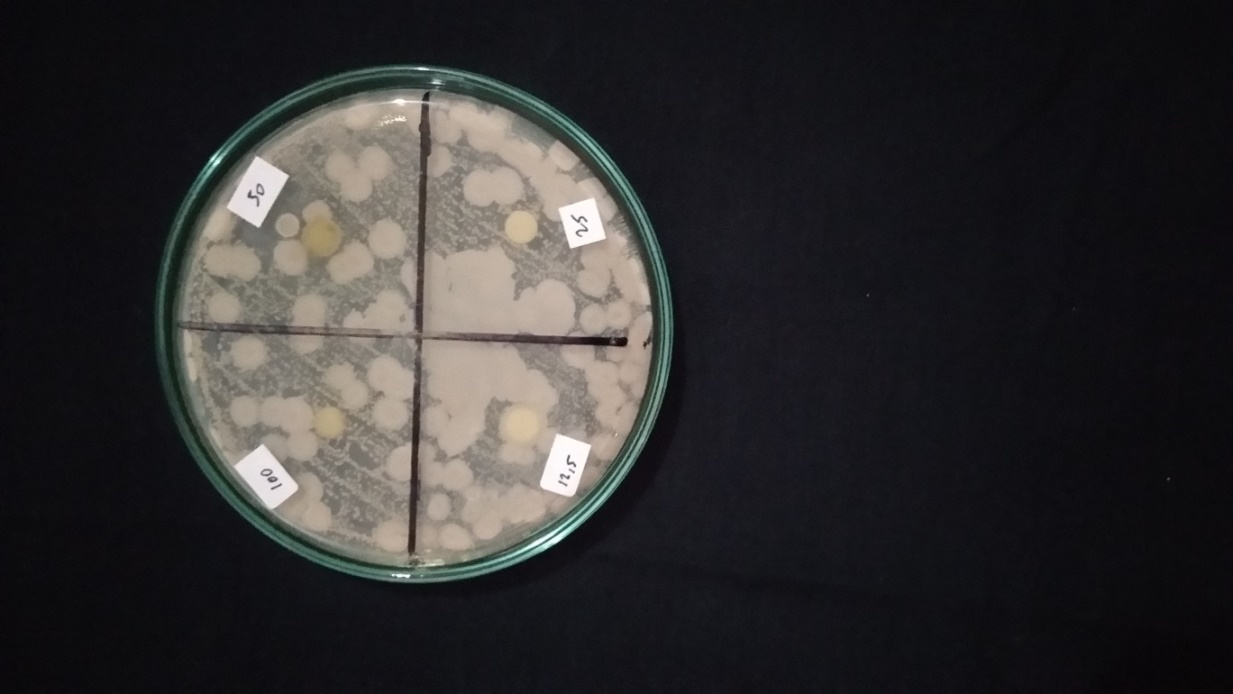
**B** = Konsentrasi 100 mg/ml, 50 mg/ml, 25 mg/ml, 12,5 mg/ml

**C** = Konsentrasi 6,25 mg/ml, 3,125 mg/ml, kontrol positif

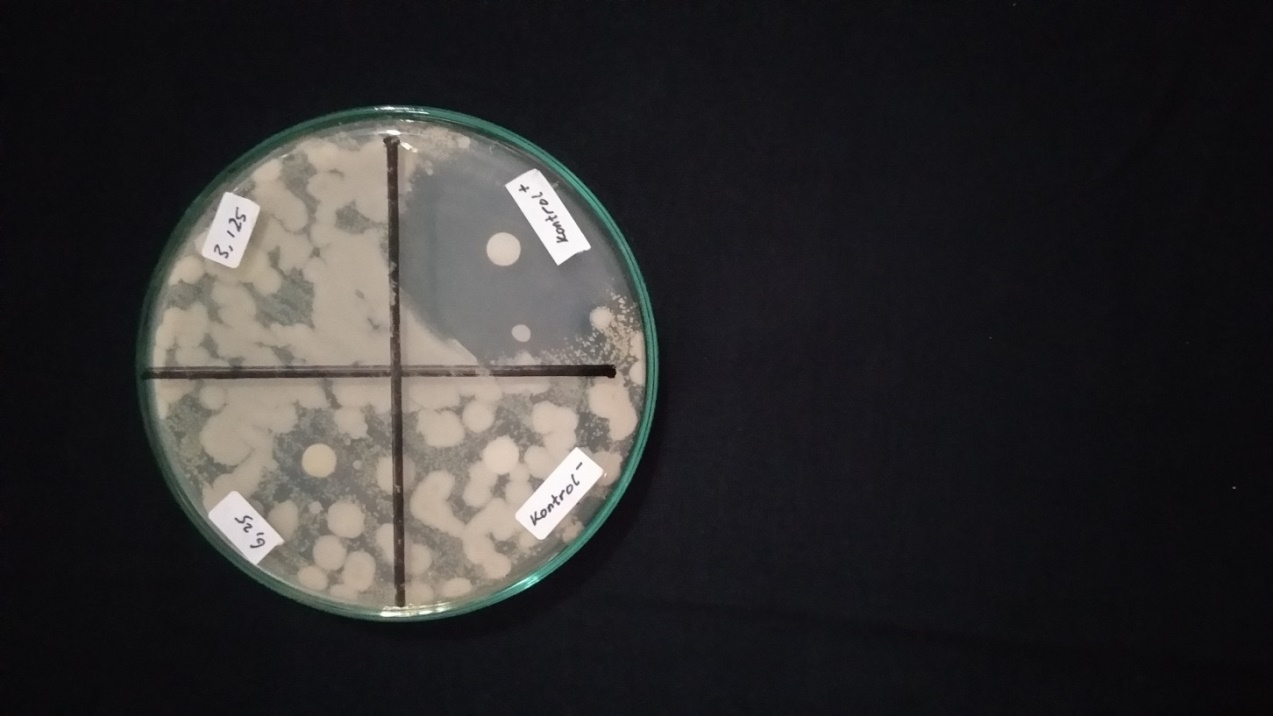
(Kloramfenikol), kontrol negatif (n-heksan)

**Lampiran 17.** Hasil uji aktivitas antibakteri fraksi n-heksan daun cincau

hijau terhadap bakteri *Staphylococcus aureus*



**A B**



**C**

Keterangan : **A** = Konsentrasi 500 mg/ml, 400 mg/ml, 300 mg/ml, 200 mg/ml

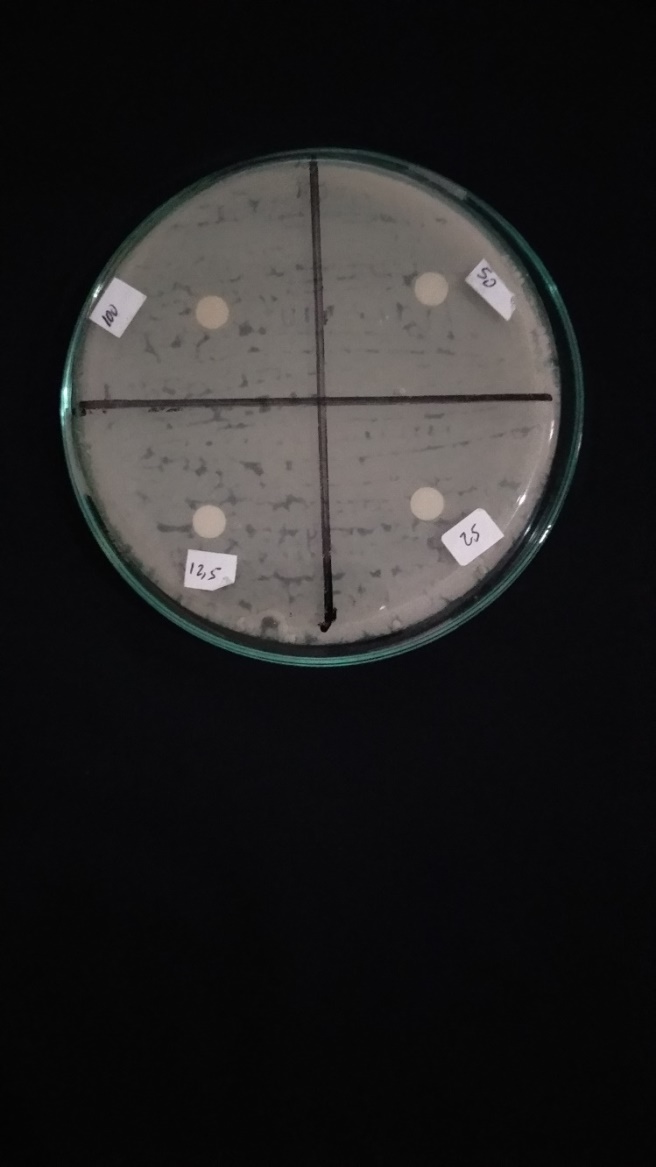
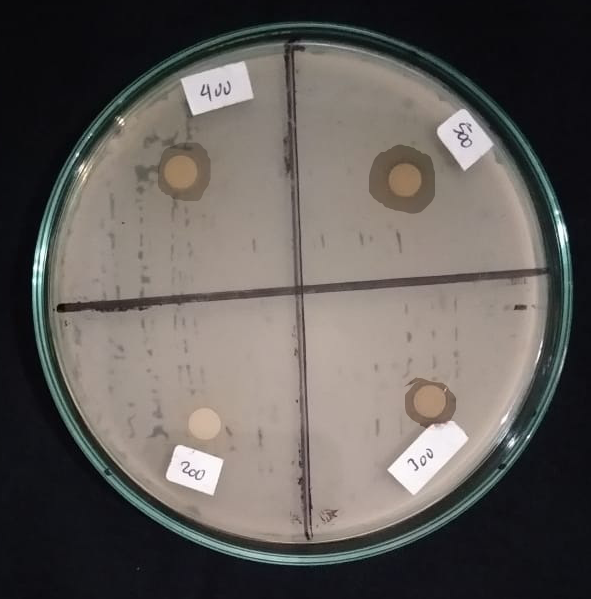
**B** = Konsentrasi 100 mg/ml, 50 mg/ml, 25 mg/ml, 12,5 mg/ml

**C** = Konsentrasi 6,25 mg/ml, 3,125 mg/ml, kontrol positif

(Kloramfenikol), kontrol negatif (n-heksan)

**Lampiran 18.** Hasil uji aktivitas antibakteri fraksi kloroform daun cincau

hijau terhadap bakteri *Escherichia coli.*



**A B**



**C**

Keterangan : **A** = Konsentrasi 500 mg/ml, 400 mg/ml, 300 mg/ml, 200 mg/ml

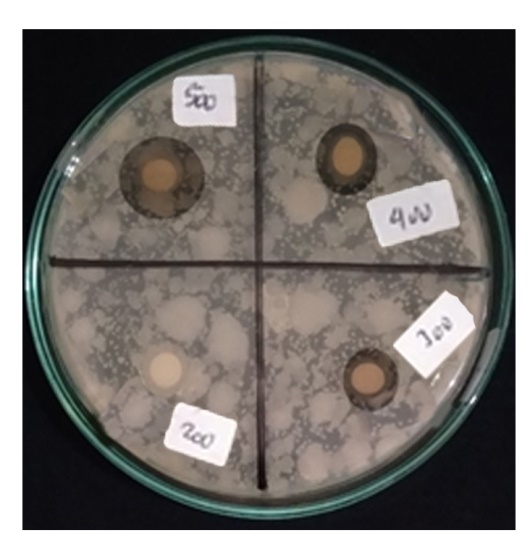
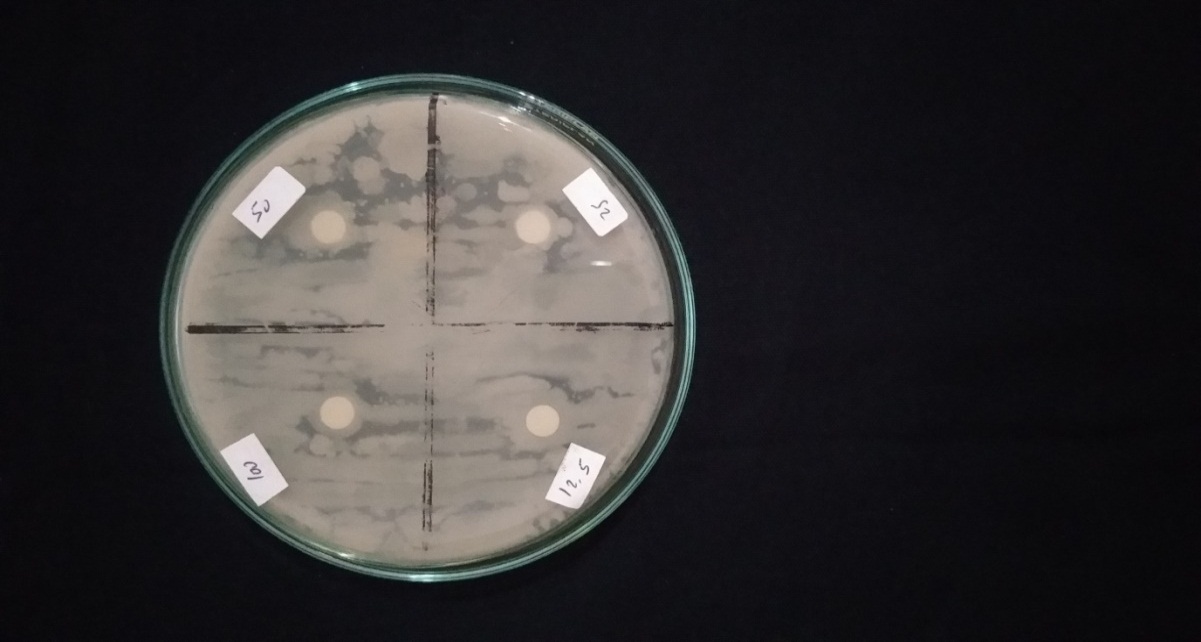
**B** = Konsentrasi 100 mg/ml, 50 mg/ml, 25 mg/ml, 12,5 mg/ml

**C** = Konsentrasi 6,25 mg/ml, 3,125 mg/ml, kontrol positif

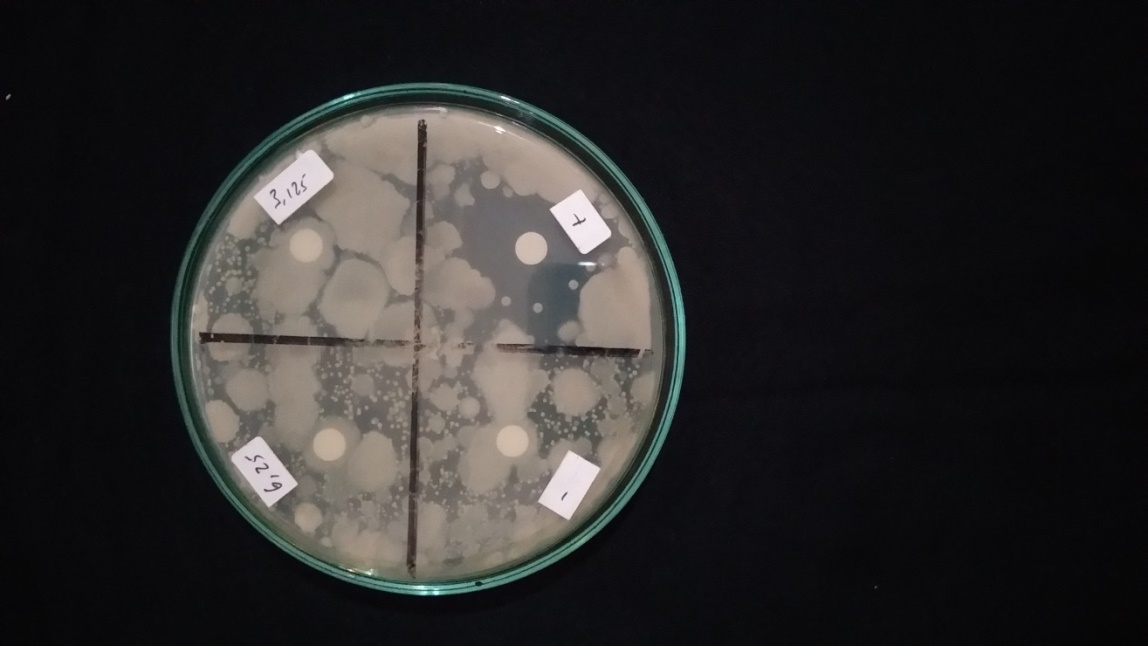
(Kloramfenikol), kontrol negatif (kloroform)

**Lampiran 19.** Hasil uji aktivitas antibakteri fraksi kloroform daun cincau

hijau terhadap bakteri *Staphylococcus aureus.*

**A B**



**C**

Keterangan : **A** = Konsentrasi 500 mg/ml, 400 mg/ml, 300 mg/ml, 200 mg/ml

**B** = Konsentrasi 100 mg/ml, 50 mg/ml, 25 mg/ml, 12,5 mg/ml

**C** = Konsentrasi 6,25 mg/ml, 3,125 mg/ml, kontrol positif

(Kloramfenikol), kontrol negatif (kloroform)

**Lampiran 20.** Hasil Analisis Data

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Normality** | | | | | | | |
|  | Perlakuan | Kolmogorov-Smirnova | | | Shapiro-Wilk | | |
|  | Statistic | df | Sig. | Statistic | df | Sig. |
| KHM Escherichia coli Ekstrak Etanol | kontrol Positif | .309 | 3 | . | .901 | 3 | .388 |
| Kontrol Negatif | . | 3 | . | . | 3 | . |
| Konsentrasi 500 mg/ml | .323 | 3 | . | .879 | 3 | .322 |
| Konsentrasi 400 mg/ml | .301 | 3 | . | .912 | 3 | .424 |
| Konsentrasi 300 mg/ml | .202 | 3 | . | .994 | 3 | .854 |
| Konsentrasi 200 mg/ml | .339 | 3 | . | .851 | 3 | .243 |
| Konsentrasi 100 mg/ml | .224 | 3 | . | .985 | 3 | .763 |
| Konsentrasi 50 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 25 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 12,5 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 6,25 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 3,125 mg/ml | . | 3 | . | . | 3 | . |
| KHM Staphylococcus aureus Ekstrak Etanol | kontrol Positif | .223 | 3 | . | .985 | 3 | .763 |
| Kontrol Negatif | . | 3 | . | . | 3 | . |
| Konsentrasi 500 mg/ml | .190 | 3 | . | .997 | 3 | .902 |
| Konsentrasi 400 mg/ml | .227 | 3 | . | .982 | 3 | .746 |
| Konsentrasi 300 mg/ml | .319 | 3 | . | .886 | 3 | .341 |
| Konsentrasi 200 mg/ml | .350 | 3 | . | .828 | 3 | .184 |
| Konsentrasi 100 mg/ml | .293 | 3 | . | .922 | 3 | .459 |
| Konsentrasi 50 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 25 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 12,5 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 6,25 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 3,125 mg/ml | . | 3 | . | . | 3 | . |
| KHM Escherichia coli Fraksi Kloroform | kontrol Positif | .298 | 3 | . | .915 | 3 | .435 |
| Kontrol Negatif | . | 3 | . | . | 3 | . |
| Konsentrasi 500 mg/ml | .288 | 3 | . | .928 | 3 | .482 |
| Konsentrasi 400 mg/ml | .235 | 3 | . | .978 | 3 | .714 |
| Konsentrasi 300 mg/ml | .231 | 3 | . | .981 | 3 | .733 |
| Konsentrasi 200 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 100 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 50 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 25 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 12,5 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 6,25 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 3,125 mg/ml | . | 3 | . | . | 3 | . |
| KHM Staphylococcus aureus Fraksi Kloroform | kontrol Positif | .306 | 3 | . | .904 | 3 | .399 |
| Kontrol Negatif | . | 3 | . | . | 3 | . |
| Konsentrasi 500 mg/ml | .330 | 3 | . | .867 | 3 | .288 |
| Konsentrasi 400 mg/ml | .300 | 3 | . | .913 | 3 | .429 |
| Konsentrasi 300 mg/ml | .280 | 3 | . | .938 | 3 | .518 |
| Konsentrasi 200 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 100 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 50 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 25 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 12,5 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 6,25 mg/ml | . | 3 | . | . | 3 | . |
| Konsentrasi 3,125 mg/ml | . | 3 | . | . | 3 | . |
| a. Lilliefors Significance Correction | | | | | | | |

**Lampiran 20.** (Lanjutan)

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test of Homogeneity of Variances** | | | | | |
|  | | Levene Statistic | df1 | df2 | Sig. |
| KHM Escherichia coli Ekstrak Etanol | Based on Mean | 5.758 | 11 | 24 | .000 |
| Based on Median | 1.403 | 11 | 24 | .235 |
| Based on Median and with adjusted df | 1.403 | 11 | 6.520 | .344 |
| Based on trimmed mean | 5.291 | 11 | 24 | .000 |
| KHM Staphylococcus aureus Ekstrak Etanol | Based on Mean | 4.292 | 11 | 24 | .001 |
| Based on Median | 1.538 | 11 | 24 | .182 |
| Based on Median and with adjusted df | 1.538 | 11 | 8.906 | .265 |
| Based on trimmed mean | 4.059 | 11 | 24 | .002 |
| KHM Escherichia coli Fraksi Kloroform | Based on Mean | 5.479 | 11 | 24 | .000 |
| Based on Median | 2.416 | 11 | 24 | .034 |
| Based on Median and with adjusted df | 2.416 | 11 | 6.165 | .141 |
| Based on trimmed mean | 5.236 | 11 | 24 | .000 |
| KHM Staphylococcus aureus Fraksi Kloroform | Based on Mean | 7.960 | 11 | 24 | .000 |
| Based on Median | 1.600 | 11 | 24 | .162 |
| Based on Median and with adjusted df | 1.600 | 11 | 6.984 | .274 |
| Based on trimmed mean | 7.165 | 11 | 24 | .000 |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | | | | |
|  | | | | Sum of Squares | df | Mean  Square | F | Sig. |
| KHM Escherichia coli Ekstrak Etanol | Between Groups | (Combined) | | 2817.221 | 11 | 256.111 | 632.972 | .000 |
| Linear Term | Contrast | 1454.742 | 1 | 1454.742 | 3595.358 | .000 |
| Deviation | 1362.480 | 10 | 136.248 | 336.733 | .000 |
| Within Groups | | | 9.711 | 24 | .405 |  |  |
| Total | | | 2826.932 | 35 |  |  |  |
| KHM Staphylococcus aureus Ekstrak Etanol | Between Groups | (Combined) | | 3486.684 | 11 | 316.971 | 912.366 | .000 |
| Linear Term | Contrast | 1727.158 | 1 | 1727.158 | 4971.431 | .000 |
| Deviation | 1759.526 | 10 | 175.953 | 506.460 | .000 |
| Within Groups | | | 8.338 | 24 | .347 |  |  |
| Total | | | 3495.022 | 35 |  |  |  |
| KHM Escherichia coli Fraksi Kloroform | Between Groups | (Combined) | | 1742.580 | 11 | 158.416 | 570.253 | .000 |
| Linear Term | Contrast | 852.486 | 1 | 852.486 | 3068.704 | .000 |
| Deviation | 890.094 | 10 | 89.009 | 320.408 | .000 |
| Within Groups | | | 6.667 | 24 | .278 |  |  |
| Total | | | 1749.247 | 35 |  |  |  |
| KHM Staphylococcus aureus Fraksi Kloroform | Between Groups | (Combined) | | 1947.026 | 11 | 177.002 | 363.034 | .000 |
| Linear Term | Contrast | 961.085 | 1 | 961.085 | 1971.197 | .000 |
| Deviation | 985.941 | 10 | 98.594 | 202.218 | .000 |
| Within Groups | | | 11.702 | 24 | .488 |  |  |
| Total | | | 1958.728 | 35 |  |  |  |

**Lampiran 20.** (Lanjutan)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **KHM Escherichia coli Ekstrak Etanol** | | | | | | | | |
| Duncana | | | | | | | | |
| Perlakuan | N | Subset for alpha = 0.05 | | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| Kontrol Negatif | 3 | .0000 |  |  |  |  |  |  |
| Konsentrasi 50 mg/ml | 3 | .0000 |  |  |  |  |  |  |
| Konsentrasi 25 mg/ml | 3 | .0000 |  |  |  |  |  |  |
| Konsentrasi 12,5 mg/ml | 3 | .0000 |  |  |  |  |  |  |
| Konsentrasi 6,25 mg/ml | 3 | .0000 |  |  |  |  |  |  |
| Konsentrasi 3,125 mg/ml | 3 | .0000 |  |  |  |  |  |  |
| Konsentrasi 100 mg/ml | 3 |  | 10.0430 |  |  |  |  |  |
| Konsentrasi 200 mg/ml | 3 |  |  | 14.3200 |  |  |  |  |
| Konsentrasi 300 mg/ml | 3 |  |  |  | 15.6633 |  |  |  |
| Konsentrasi 400 mg/ml | 3 |  |  |  |  | 18.4267 |  |  |
| Konsentrasi 500 mg/ml | 3 |  |  |  |  |  | 19.9367 |  |
| kontrol Positif | 3 |  |  |  |  |  |  | 22.1900 |
| Sig. |  | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Means for groups in homogeneous subsets are displayed. | | | | | | | | |
| a. Uses Harmonic Mean Sample Size = 3.000. | | | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **KHM Staphylococcus aureus Ekstrak Etanol** | | | | | | | |
| Duncana | | | | | | | |
| Perlakuan | N | Subset for alpha = 0.05 | | | | | |
| 1 | 2 | 3 | 4 | 5 | 6 |
| Kontrol Negatif | 3 | .0000 |  |  |  |  |  |
| Konsentrasi 50 mg/ml | 3 | .0000 |  |  |  |  |  |
| Konsentrasi 25 mg/ml | 3 | .0000 |  |  |  |  |  |
| Konsentrasi 12,5 mg/ml | 3 | .0000 |  |  |  |  |  |
| Konsentrasi 6,25 mg/ml | 3 | .0000 |  |  |  |  |  |
| Konsentrasi 3,125 mg/ml | 3 | .0000 |  |  |  |  |  |
| Konsentrasi 100 mg/ml | 3 |  | 10.0533 |  |  |  |  |
| Konsentrasi 200 mg/ml | 3 |  |  | 17.4267 |  |  |  |
| Konsentrasi 300 mg/ml | 3 |  |  |  | 19.2667 |  |  |
| Konsentrasi 400 mg/ml | 3 |  |  |  |  | 20.9633 |  |
| Konsentrasi 500 mg/ml | 3 |  |  |  |  |  | 22.0133 |
| kontrol Positif | 3 |  |  |  |  |  | 22.7067 |
| Sig. |  | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | .163 |
| Means for groups in homogeneous subsets are displayed. | | | | | | | |
| a. Uses Harmonic Mean Sample Size = 3.000. | | | | | | | |

**Lampiran 20.** (Lanjutan)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **KHM Escherichia coli Fraksi Kloroform** | | | | | | |
| Duncana | | | | | | |
| Perlakuan | N | Subset for alpha = 0.05 | | | | |
| 1 | 2 | 3 | 4 | 5 |
| Kontrol Negatif | 3 | .0000 |  |  |  |  |
| Konsentrasi 200 mg/ml | 3 | .0000 |  |  |  |  |
| Konsentrasi 100 mg/ml | 3 | .0000 |  |  |  |  |
| Konsentrasi 50 mg/ml | 3 | .0000 |  |  |  |  |
| Konsentrasi 25 mg/ml | 3 | .0000 |  |  |  |  |
| Konsentrasi 12,5 mg/ml | 3 | .0000 |  |  |  |  |
| Konsentrasi 6,25 mg/ml | 3 | .0000 |  |  |  |  |
| Konsentrasi 3,125 mg/ml | 3 | .0000 |  |  |  |  |
| Konsentrasi 300 mg/ml | 3 |  | 8.9667 |  |  |  |
| Konsentrasi 400 mg/ml | 3 |  |  | 9.9000 |  |  |
| Konsentrasi 500 mg/ml | 3 |  |  |  | 11.3967 |  |
| kontrol Positif | 3 |  |  |  |  | 22.4533 |
| Sig. |  | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Means for groups in homogeneous subsets are displayed. | | | | | | |
| a. Uses Harmonic Mean Sample Size = 3.000. | | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **KHM Staphylococcus aureus Fraksi Kloroform** | | | | | |
| Duncana | | | | | |
| Perlakuan | N | Subset for alpha = 0.05 | | | |
| 1 | 2 | 3 | 4 |
| Kontrol Negatif | 3 | .0000 |  |  |  |
| Konsentrasi 200 mg/ml | 3 | .0000 |  |  |  |
| Konsentrasi 100 mg/ml | 3 | .0000 |  |  |  |
| Konsentrasi 50 mg/ml | 3 | .0000 |  |  |  |
| Konsentrasi 25 mg/ml | 3 | .0000 |  |  |  |
| Konsentrasi 12,5 mg/ml | 3 | .0000 |  |  |  |
| Konsentrasi 6,25 mg/ml | 3 | .0000 |  |  |  |
| Konsentrasi 3,125 mg/ml | 3 | .0000 |  |  |  |
| Konsentrasi 300 mg/ml | 3 |  | 9.6733 |  |  |
| Konsentrasi 400 mg/ml | 3 |  | 10.5467 |  |  |
| Konsentrasi 500 mg/ml | 3 |  |  | 12.7500 |  |
| kontrol Positif | 3 |  |  |  | 23.3700 |
| Sig. |  | 1.000 | .139 | 1.000 | 1.000 |
| Means for groups in homogeneous subsets are displayed. | | | | | |
| a. Uses Harmonic Mean Sample Size = 3.000. | | | | | |

**Lampiran 21.** Hasil Analisis T-test Ekstrak Etanol Terhadap Bakteri *Escherichia coli* dan *Staphylococcus aureus*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Statistics** | | | | | |
|  | Konsentrasi | N | Mean | Std. Deviation | Std. Error Mean |
| daya hambat e.coli dan sa ekstrak etanol | 500 | 3 | 19.9367 | .35726 | .20626 |
| 500 | 3 | 22.0133 | 1.06641 | .61569 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | Levene's Test for Equality of Variances | | t-test for Equality of Means |
| F | Sig. | t |
|
| daya hambat e.coli dan sa ekstrak etanol | Equal variances assumed | 1.799 | .251 | -3.198 |
| Equal variances not assumed |  |  | -3.198 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | t-test for Equality of Means | | |
| Df | Sig. (2-tailed) | Mean Difference |
|
| daya hambat e.coli dan sa ekstrak etanol | Equal variances assumed | 4 | .033 | -2.07667 |
| Equal variances not assumed | 2.443 | .035 | -2.07667 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | t-test for Equality of Means | | |
| Std. Error Difference | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| daya hambat e.coli dan sa ekstrak etanol | Equal variances assumed | .64932 | -3.87948 | -.27385 |
| Equal variances not assumed | .64932 | -4.43674 | .28341 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Statistics** | | | | | |
|  | Konsentrasi | N | Mean | Std. Deviation | Std. Error Mean |
| daya hambat e.coli dan sa ekstrak etanol | 400 | 3 | 18.4267 | 1.08910 | .62879 |
| 400 | 3 | 20.9633 | 1.08960 | .62908 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | Levene's Test for Equality of Variances | | t-test for Equality of Means |
| F | Sig. | T |
|
| daya hambat e.coli dan sa ekstrak etanol | Equal variances assumed | .011 | .920 | -2.852 |
| Equal variances not assumed |  |  | -2.852 |

**Lampiran 21**. (Lanjutan)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | | | |
|  | | t-test for Equality of Means | | | | |
| Df | Sig. (2-tailed) | | Mean Difference | |
|
| daya hambat e.coli dan sa ekstrak etanol | Equal variances assumed | 4 | .046 | | -2.53667 | |
| Equal variances not assumed | 4.000 | .046 | | -2.53667 | |
| **Independent Samples Test** | | | | | | |
|  | | t-test for Equality of Means | | | | |
| Std. Error Difference | | 95% Confidence Interval of the Difference | | |
| Lower | | Upper |
| daya hambat e.coli dan sa ekstrak etanol | Equal variances assumed | .88945 | | -5.00618 | | -.06716 |
| Equal variances not assumed | .88945 | | -5.00618 | | -.06716 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Statistics** | | | | | |
|  | Konsentrasi | N | Mean | Std. Deviation | Std. Error Mean |
| daya hambat e.coli dan sa ekstrak etanol | 300 | 3 | 15.6633 | 1.16843 | .67459 |
| 300 | 3 | 19.2667 | .47816 | .27606 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | Levene's Test for Equality of Variances | | t-test for Equality of Means |
| F | Sig. | t |
|
| daya hambat e.coli dan sa ekstrak etanol | Equal variances assumed | 1.474 | .292 | -4.944 |
| Equal variances not assumed |  |  | -4.944 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | t-test for Equality of Means | | |
| Df | Sig. (2-tailed) | Mean Difference |
|
| daya hambat e.coli dan sa ekstrak etanol | Equal variances assumed | 4 | .008 | -3.60333 |
| Equal variances not assumed | 2.652 | .021 | -3.60333 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | t-test for Equality of Means | | |
| Std. Error Difference | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| daya hambat e.coli dan sa ekstrak etanol | Equal variances assumed | .72890 | -5.62707 | -1.57959 |
| Equal variances not assumed | .72890 | -6.10534 | -1.10133 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Statistics** | | | | | |
|  | Konsentrasi | N | Mean | Std. Deviation | Std. Error Mean |
| daya hambat e.coli dan sa ekstrak etanol | 200 | 3 | 14.3200 | 1.30088 | .75107 |
| 200 | 3 | 17.4200 | .93872 | .54197 |

**Lampiran 21**. (Lanjutan)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | Levene's Test for Equality of Variances | | t-test for Equality of Means |
| F | Sig. | t |
|
| daya hambat e.coli dan sa ekstrak etanol | Equal variances assumed | .710 | .447 | -3.347 |
| Equal variances not assumed |  |  | -3.347 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | t-test for Equality of Means | | |
| Df | Sig. (2-tailed) | Mean Difference |
|
| daya hambat e.coli dan sa ekstrak etanol | Equal variances assumed | 4 | .029 | -3.10000 |
| Equal variances not assumed | 3.639 | .033 | -3.10000 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | t-test for Equality of Means | | |
| Std. Error Difference | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| daya hambat e.coli dan sa ekstrak etanol | Equal variances assumed | .92619 | -5.67152 | -.52848 |
| Equal variances not assumed | .92619 | -5.77547 | -.42453 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Statistics** | | | | | |
|  | Konsentrasi | N | Mean | Std. Deviation | Std. Error Mean |
| daya hambat e.coli dan sa ekstrak etanol | 100 | 3 | 10.0430 | .48877 | .28219 |
| 100 | 3 | 10.0533 | .69256 | .39985 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | Levene's Test for Equality of Variances | | t-test for Equality of Means |
| F | Sig. | t |
|
| daya hambat e.coli dan sa ekstrak etanol | Equal variances assumed | .645 | .467 | .770 |
| Equal variances not assumed |  |  | .770 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | t-test for Equality of Means | | |
| df | Sig. (2-tailed) | Mean Difference |
|
| daya hambat e.coli dan sa ekstrak etanol | Equal variances assumed | 4 | .484 | .37667 |
| Equal variances not assumed | 3.596 | .489 | .37667 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | t-test for Equality of Means | | |
| Std. Error Difference | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| daya hambat e.coli dan sa ekstrak etanol | Equal variances assumed | .48940 | -.98212 | 1.73546 |
| Equal variances not assumed | .48940 | -1.04444 | 1.79777 |

**Lampiran 22.** Hasil Analisis T-test Fraksi Kloroform Terhadap Bakteri *Escherichia coli* dan *Staphylococcus aureus*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Statistics** | | | | | |
|  | Konsentrasi | N | Mean | Std. Deviation | Std. Error Mean |
| daya hambat e.coli dan sa fraksi kloroform | 500 | 3 | 11.3967 | .70059 | .40449 |
| 500 | 3 | 12.7500 | 1.16503 | .67263 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | Levene's Test for Equality of Variances | | t-test for Equality of Means |
| F | Sig. | t |
|
| daya hambat e.coli dan sa fraksi kloroform | Equal variances assumed | 1.534 | .283 | -1.724 |
| Equal variances not assumed |  |  | -1.724 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | t-test for Equality of Means | | |
| df | Sig. (2-tailed) | Mean Difference |
|
| daya hambat e.coli dan sa fraksi kloroform | Equal variances assumed | 4 | .160 | -1.35333 |
| Equal variances not assumed | 3.279 | .175 | -1.35333 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | t-test for Equality of Means | | |
| Std. Error Difference | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| daya hambat e.coli dan sa fraksi kloroform | Equal variances assumed | .78488 | -3.53252 | .82586 |
| Equal variances not assumed | .78488 | -3.73507 | 1.02841 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Statistics** | | | | | |
|  | Konsentrasi | N | Mean | Std. Deviation | Std. Error Mean |
| daya hambat e.coli dan sa fraksi kloroform | 400 | 3 | 9.9000 | 1.16297 | .67144 |
| 400 | 3 | 10.5467 | 1.07784 | .62229 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | Levene's Test for Equality of Variances | | t-test for Equality of Means |
| F | Sig. | t |
|
| daya hambat e.coli dan sa fraksi kloroform | Equal variances assumed | .004 | .955 | -.706 |
| Equal variances not assumed |  |  | -.706 |

**Lampiran 22.** (Lanjutan)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | t-test for Equality of Means | | |
| df | Sig. (2-tailed) | Mean Difference |
|
| daya hambat e.coli dan sa fraksi kloroform | Equal variances assumed | 4 | .519 | -.64667 |
| Equal variances not assumed | 3.977 | .519 | -.64667 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | t-test for Equality of Means | | |
| Std. Error Difference | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| daya hambat e.coli dan sa fraksi kloroform | Equal variances assumed | .91547 | -3.18841 | 1.89507 |
| Equal variances not assumed | .91547 | -3.19419 | 1.90086 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Group Statistics** | | | | | |
|  | Konsentrasi | N | Mean | Std. Deviation | Std. Error Mean |
| daya hambat e.coli dan sa fraksi kloroform | 300 | 3 | 8.9667 | 1.16131 | .67048 |
| 300 | 3 | 9.6733 | 1.60594 | .92719 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | Levene's Test for Equality of Variances | | t-test for Equality of Means |
| F | Sig. | t |
|
| daya hambat e.coli dan sa fraksi kloroform | Equal variances assumed | .512 | .514 | -.618 |
| Equal variances not assumed |  |  | -.618 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | t-test for Equality of Means | | |
| df | Sig. (2-tailed) | Mean Difference |
|
| daya hambat e.coli dan sa fraksi kloroform | Equal variances assumed | 4 | .570 | -.70667 |
| Equal variances not assumed | 3.643 | .573 | -.70667 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Independent Samples Test** | | | | |
|  | | t-test for Equality of Means | | |
| Std. Error Difference | 95% Confidence Interval of the Difference | |
| Lower | Upper |
| daya hambat e.coli dan sa fraksi kloroform | Equal variances assumed | 1.14421 | -3.88351 | 2.47018 |
| Equal variances not assumed | 1.14421 | -4.01032 | 2.59699 |