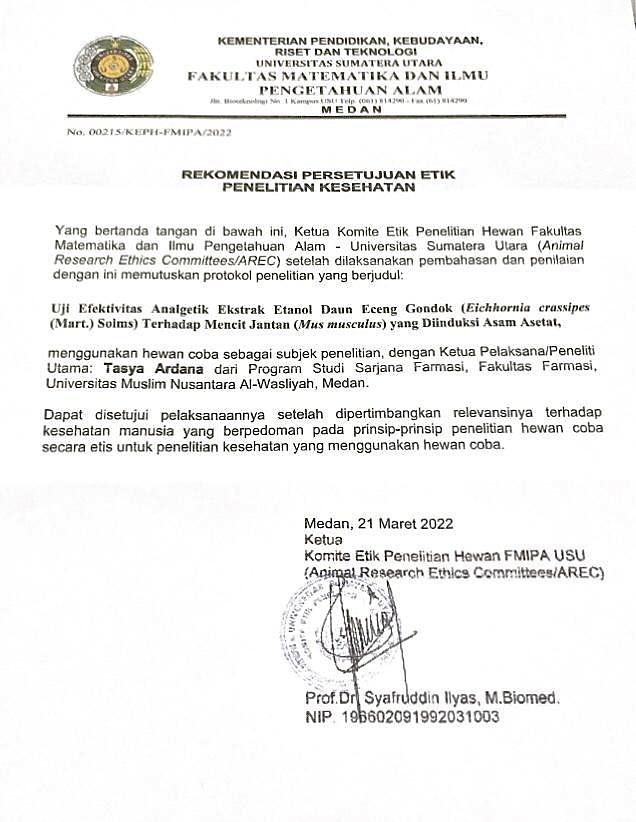
**Lampiran 1** Hasil Determinasi Tumbuhan



Lampiran 2 Rekomendasi Persetujuan Etik Penelitian



Lampiran 3 Bagan Alir Penelitian

Serbuk

Serbuk Kering

Dicuci bersih, ditiriskan, lalu dikeringkan lalu dihaluskan

Serbuk Kering

Hasil

Skrining fitokimia

karakterisasi

Hasil

Uji efektivitas analgetik

Hasil

Suspensi ekstrak etanol daun eceng gondok

Rotary evaporator

Daun Eceng Gondok

Ekstak kental

Maserat

Masersi dengan pelarut etanol 96%

Lampiran 4 Bagan Alir Pembuatan Simplisia

Tumbuhan daun eceng gondok 8 kg

Disortasi basah

Dicuci

Dirajang/ dipotong

Berat basah 7,8 kg

Dikeringkan dilemari pengering

Disortasi kering

Berat kering 976 g

Dihaluskan dengan menggunalan blender

Serbuk smplisia daun eceng gondok 820 g

Lampiran 5. Bagan alir Pembuatan Ekstrak Daun Eceng Gondok

Serbuk simplisia daun eceng gondok 500 g

Dimasukan dalam bejana

Dimasukan dengan 75 bagian etanol 96%

Ditutup dan dibiarkan selama 5 hari sambil diaduk aduk sekali kali

Setelah 5 hari maserat diserkai dan ampasnya diperas

Maserat 1

Ampas

Dicuci dengan 25 bagian etanol 96%

Dimasukan kedalam bejana tertutup,dibiarkan selama 2 hari dan disaring

Ekstrak kental 95 g

Maserat I + Maserat II

Maserat II

Dipekatkan dengan *Rotary Evaporator*

Lampiran 6. Bagan Alir Skrining Fitokimia dan Karakterisasi

Ekstrak Etanol Daun Eceng Gondok

Serbuk Simplisia Daun Eceng Gondok

Serbuk Simplisia Daun Eceng Gondok

Serbuk Simplisia Daun Eceng Gondok

Dimaserasi menggunakan pelarut etanol

Uji Farmakologi

1. Pemeriksaan Alkaloida

2. Pemeriksaan Flavonoid

3. Pemeriksaan Tanin

4. Pemeriksaan Saponin

5. Pemeriksaan Steroid/ Triterpenoid

6. Pemeriksaan Glikoksida

Skrining Fitokimia

1. Makroskopik

2. Mikroskopik

3. Penetapan kadar air

4. Penetapan Kadar Sari Larut Air

5. Penetapan Kadar Sari Larut Etanol

6. Penetapan Kadar Abu Total

7. Penetapan Kadar Abu Tidak Larut dalam Asam

Karakterisasi

1. Pemeriksaan Alkaoidaa

2. Pemeriksaan Flavonoid

3.Pemeriksaan Tanin.

4.Pemeriksaan Saponin.

5.Pemeriksaan Steroida/Triterpenoid

96%

Lampiran 7 Bagan Alir Uji Analgetik

Mencit

Dikondisikan selama 2 minggu

Diamati geliatnya dan dihitung jumlah geliat tiap 5 menit sampai ke 60 menit

Mencit Nyeri

Setelah 15 menit diamati, setiap kelompok diberikan perlakukan secara peroral:

Ke I CMC 0,5%

Ke II Methampiron 1%

Ke III EEDEG 300m g/kgBB

Ke VI EEDEG 400 mg/kgBB

Ke V EEDEG 500 mg/kgBB

Dihitung jumlah geliat tiap 5 menit sampe 15 menit

Mencit Nyeri

Diinduksi asam asetat 1% secara intraperitoneal

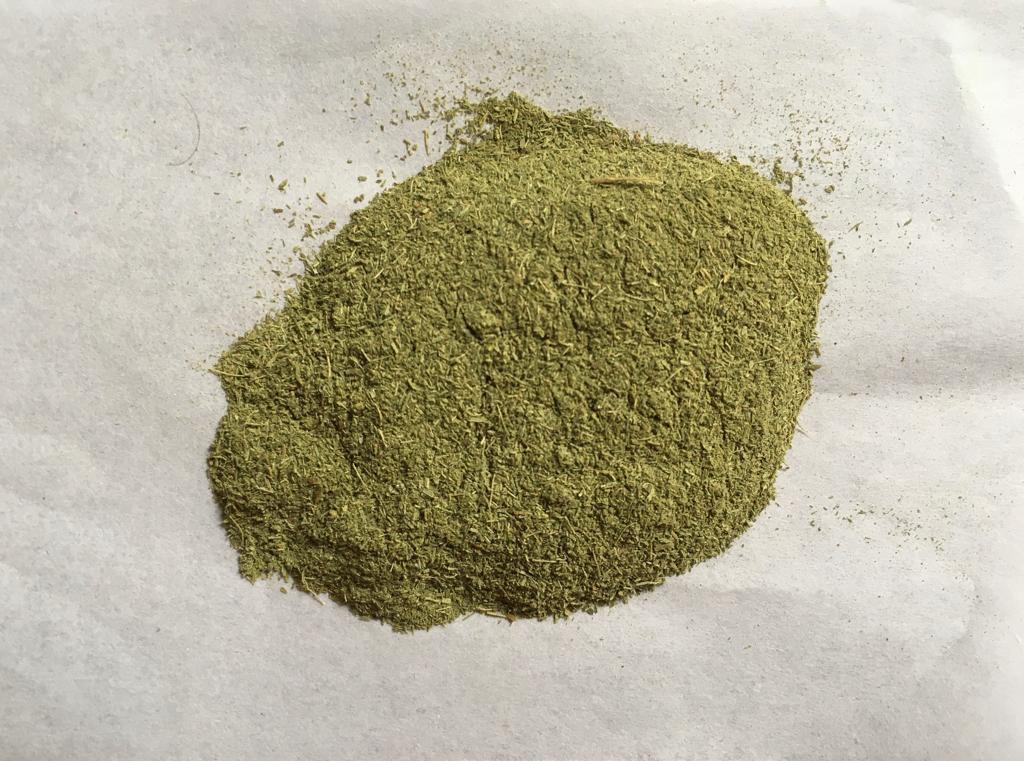
Dikelompokkan secara acak menjadi 5 kelompok, masing-masing kelompok 5 ekor.

Dipuasakan selama 18-24 jam

Lampiran 8Daun Eceng Gondok Segar, Simplisia dan Serbuk Simplisia Daun Eceng Gondok



Daun Eceng Gondok Segar

Simplisia Daun Eceng Gondok

Serbuk Simplisia Daun Eceng Gondok

Lampiran 9.Maserasi danEkstrak Daun Eceng Gondok

Maserasi Serbuk Simplisia daun Eceng Gondok

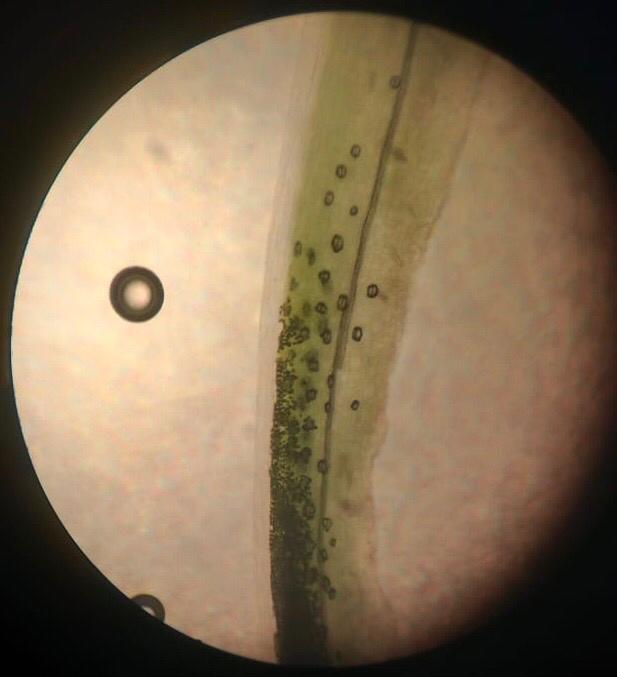


Alat Rotary Evaporator Waterbath



Ekstrak Etanol Daun Eceng Gondok

Lampiran 10. Hasil Mikroskop Daun Eceng Gondok

****

**Mikroskopik daun Segar Eceng Gondok pada penapang mebujur**

Kutikula

Epidermis atas

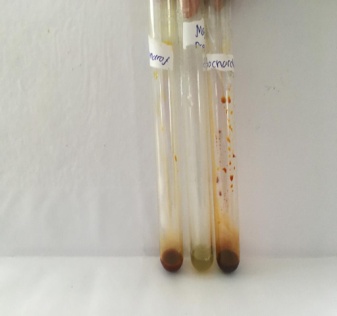
stomata

****

**Mikroskopik daun segar eceng gondok pada penampang melintang**

Trikoma/rambut pada Penanpang melintang

Lampiran 11.Hasil uji skrining fitokimia simplisia dan ekstrak daun eceng gondok

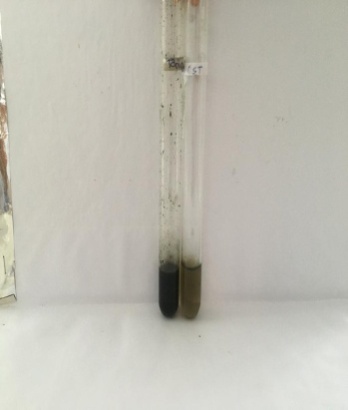
****

flavonoid pada ekstrak

flavonoid pada serbuk

Alkaoid pada serbuk

Alkaoid pada ekstrak

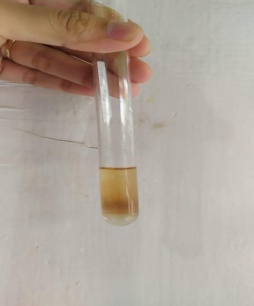
****

Tanin pada serbuk

Tanin pada ekstrak

Saponin pada serbuk

Saponin pada ekstrak

****

Steroid/Triterpenoid pada ekstrak

Steroid/Triterpenoid pada serbuk

Glikosida pada serbuk

Glikosida pada ekstrak

Lampiran 12 Hasil Karakterisasi Simplisia

****

Penetapan Kadar Air Simplisia

****

Penetapan Kadar Sari Larut Air

****

****

Penetapan Kadar Sari Larut Etanol

****

Penetapan Kadar Abu Total

****

Penetapan Kadar Abu Tidak Larut dalam Asam

Lampiran 13. Hasil Perhitungan Parameter Karakteristik Simplisia

Berat kering = 820 gram

Berat serbuk = 500 gram

Berat ekstrak = 95 gram

X 100 %

Berat ekstrak yang di dapat

Bobot bahan simplisia yang di ekstrak

% Randemen =

95 gram

500 gram

= = 19%

1. Perhitungan Hasil Penetapan Kadar Air (Tidak lebih daro10%)

|  |  |  |  |
| --- | --- | --- | --- |
| Berat sampel (g) | Volume awal (ml) | Volume akhir (ml) | Volume air (%) |
| 5 | 1,9 | 2,2 | 6 |
| 5 | 1,7 | 2 | 6 |
| 5 | 1,8 | 2,1 | 6 |

Volume akhir – volume awal

Berat sampel

% Kadar air =

X 100

2,2 ml – 1,9 ml

5 g

1. % Kadar air = x 100% = 6 %

2 ml – 1,7 ml

5 g

1. % Kadar air = x 100% = 6 %

2,1 ml – 1,8 ml

5 g

1. % Kadar air = x 100% = 6 %

6% + 6 % + 6 %

3

% rata – rata = = 6 %

Penetapan kadar air pada daun eceng gondok memenuhi syarat yaitu 6% tidak lebih dari 1-10%

2. Penetapan Kadar Sari Larut dalam Air (8-35%)

|  |  |  |
| --- | --- | --- |
| Berat sampel (g) | Berat cawan berisi | Berat cawan kosong |
| 5 | 51,3269 | 50,9952 |
| 5 | 60,9960 | 60,6752 |
| 5 | 60,9853 | 60,6669 |

Lampiran 13. (lanjutan)

(Berat cawan berisi – Berat cawan kosong) x 5

5 g

Kadar sari larut air = x100%

(51,3269 – 50,9952) x 5 g

5 g

1. % Kadar sari larut air = x 100 = 33,17 %

(60,9960 – 60,6752) x 5 g

5 g

1. % Kadar sari larut air = x 100 = 32,08 %

(60,9852 – 60,6669) x 5 g

5 g

1. % Kadar sari larut air = x 100 = 31,84%

33,17 + 32,08 + 31,84

3

Rata – rata kadar sari larut air = = 32,36%

Penetapan kadar sari larut dalam air memenuhi syarat yaitu 32,36% atau tidak leih dari 8-35%.

3. Penetapan Kadar Sari Larut Etanol

|  |  |  |
| --- | --- | --- |
| Berat sampel (g) | Berat cawan berisi (g) | Berat cawan kosong (g) |
| 5 | 65,5756 | 65,3641 |
| 5 | 64,9651 | 64,6885 |
| 5 | 60,4234 | 60,2534 |

(Berat cawan berisi – Berat cawan kosong) x 5

5 g

Kadar sari larut air = x100%

(65,5756 – 65,3641) x 5 g

5 g

1. % Kadar sari larut etanol = x 100 = 21,15 %

(64,9651 – 64,6885) x 5 g

5 g

1. % Kadar sari larut etanol = x 100 = 27,66%

(60,4234 – 60,2534 ) x 5 g

5 g

1. % Kadar sari larut etanol = x 100 = 17%

Lampiran 13. (lanjutan)

21,15 + 27,66 + 17

3

Rata – rata kadar sari larut etanol = = 21,93 %

Penetapan kadarsari larut etanol daun eceng gondok memenuhi syarat yaitu 21,93% atau tidak lebih dari 5-26%.

4. Penetapan Kadar Abu Total (7-14%)

|  |  |  |
| --- | --- | --- |
| Berat sampel (g) | Berat cawan berisi (g) | Berat cawan kosong (g) |
| 2 | 25,9691 | 25,7952 |
| 2 | 26,8650 | 26,6934 |
| 2 | 24,9656 | 24,7873 |

(Berat cawan berisi – Berat cawan kosong)

Berat simplisia (g)

% Kadar abu total = x 100 %

(25,9691 – 25,7952)

2 g

1. % Kadar abu total = x 100 = 8,69%

(26,8650 – 26,6934)

2 g

1. % Kadar abu total = x 100 = 8,58%

(24,9656 – 24,7873)

2 g

1. % Kadar abu total = x 100 = 8,91%

8,69% + 8,58% + 8,91%

3

% Kadar rata-rata abu total = = 8,72%

Penetapan kadar abu total pada daun eceng gondok memenuhi syaratyaitu 8,72% atau tidak lebih dari 7-14%

5. Penetapan Kadar Abu Tidak Larut Dalam Asam (1-10%)

|  |  |  |
| --- | --- | --- |
| Berat sampel (g) | Berat cawan berisi (g) | Berat cawan kosong (g) |
| 2 | 26,5625 | 26,5620 |
| 2 | 25,9865 | 25,9860 |
| 2 | 26,4056 | 26,4051 |

Berat cawan berisi – Berat cawan kosong

Berat simplisia (g)

% Kadar abu tidak larut asam = x 100 %

Lampiran 13. (lanjutan)

26,5625 – 26,5620

2 g

1. % Kadar abu tidak larut asam = x 100%= 0,02%

25,9865 – 25,9860

2 g

2. % Kadar abu tidak larut asam = x 100% = 0,02%

26,4056 – 26,4051

2 g

3. % Kadar abu tidak larut asam = x 100% = 0,02%

0,025% + 0,025% + 0,025%

3

% Kadar rata – rata = = 0,02%

Penetapan kadarabu tidak larut asam pada daun eceng gondok tidak memenuhi syarat yaitu 0,02% atau tidak kurang dari 1-10%.

Lampiran 14.Lampiran Tabel Konversi Perhitungan Dosis antara Jenis Hewan dan Manusia

Tabel. Konversi Perhitungan Dosis antara Jenis Hewan dan Manusia

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Hewan dan BB rata-rata | Mencit 20 g | Tikus 200 g | Marmut 400 g | Kelinci 1,5 Kg | Kucing 2 Kg | Kera 4 Kg | Anjing 12 kg | Manusia 70 Kg |
| Mencit 20 g | 1,0 | 7,0 | 12,29 | 27,8 | 28,7 | 64,1 | 124,2 | 387,9 |
| Tikus 200 g | 0,14 | 1,0 | 1,74 | 3,9 | 4,2 | 9,2 | 17,8 | 60,5 |
| Marmut 400 g | 0,08 | 0,57 | 1,0 | 2,25 | 2,4 | 5,2 | 10,2 | 31,5 |
| Kelinci 1,5 Kg | 0,04 | 0,25 | 0,44 | 1,0 | 1,06 | 2,4 | 4,5 | 14,2 |
| Kucing 2 Kg | 0,03 | 0,23 | 0,41 | 0,92 | 1,0 | 2,2 | 4,1 | 13,0 |
| Kera 4 Kg | 0,016 | 0,11 | 0,19 | 0,42 | 0,45 | 1,0 | 1,9 | 6,1 |
| Anjing 12 Kg | 0,008 | 0,06 | 0,10 | 0,22 | 0,24 | 0,52 | 1,0 | 3,1 |
| Manusia 70 Kg | 0,0026 | 0,018 | 0,031 | 0,07 | 0,76 | 0,16 | 0,32 | 1,0 |

Lampiran 15.Tabel Volume Maksimum Larutan Sediaan Uji yang Dapat Diberikan Pada Beberapa Hewan Uji

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Jenis Hewan Uji | Volume Maksimum (mL) sesuai jalur pemberian | | | | |
| i.v | i.m | i.p | s.c | p.o |
| Mencit (20-30 g) | 0,5 | 0,05 | 1,0 | 0,5-1,0 | 1,0 |
| Tikus (200g) | 1,0 | 0,1 | 2-5 | 2-5 | 5,0 |
| Hamster ( 50g) | - | 0,1 | 2-5 | 2-5 | 2,5 |
| Marmut (250g) | - | 0,25 | 5,0 | 5,0 | 10,0 |
| Kelinci (2,5 kg) | 5-10 | 0,5 | 5-10 | 5-10 | 20,0 |
| Kucing (3Kg) | 5-10 | 1,0 | 5-10 | 5-10 | 50,0 |
| Anjing (5Kg) | 10-20 | 5,0 | 10,0 | 10,0 | 100,0 |

Lampiran 16.Perhitungan Dosis

1. Dosis Methampiron (Antalgin)

Konversi dosis menusia ke dosis tikus

Dosis lazim methampiron pada manusia : 500 mg

Dosis mencit :0,0026

Berat badan mencit : 20 g

Dosis methampiron = 500 mg x 0,0026 = 1,3 mg/20 g

= 1,3 mg/ 0,02 Kg

= 65 mg/KgBB

Konsentrasi 1% = 1g/100mL = 0,01 g/mL = 10 mg/mL

Dosis mg/kgBB

1000

Dosis= x berat badan mencit (g)

Dosis

Konsentrasi

Volume =

Contoh :

65 mg/kgBB

1000

x 20 g =1,3 mL

1.3 mg

10 mg/kgBB

Volume = = 0,13 mL

2. Dosis CMC

Volumr suspensi yan diberikan = 0,5 mL

Suspensi CMC 0,5%

0,5% = 0,5 g/100 mL = 500 mg/100 mL = 5 mg/mL

Lampiran 16 . (Lanjutan)

3. EEDEG 300 mg/kgBB

Berat Badan mencit = 20 g

Konsentrasi 2% = 2g/100mL = 2000 mg/100 mL = 20 mg/kgBB

Dosisi (mg)

1000

Dosis = X Berat badan mencit (g)

Dosis

Konsentrasi

Volume =

Contoh :

300 mg

1000

Dosis = x 20 g = 6 mg

6 mg

20 mg/mL

Volume = = 0.3 mL

4. EEDEG 400 mg/kgBB

Berat badan mencit = 20 g

Konsentrasi 2% = 2g/100mL = 2000 mg/100 mL = 20 mg/kgBB

Dosis = x Berat Badan Mencit (g)

Dosis (mg)

1000

Dosis

Konsentrasi

Volume =

Contoh :

400 mg

1000 mg/kgBB

Dosis = x 20 g = 8 mg

8 mg

20 mg/mL

Volume = = 0,4 mL

Lampiran 16 .(Lanjutan)

4. EEDEG 500 mg/kgBB

Dosisi (mg)

1000

Dosis = X Berat badan mencit (g)

Dosis

Konsentrasi

Volume =

Contoh :

500 mg/kgBB

1000

Dosis = x 20 g = 10 mg

10 mg

2020 mg/mL

Volume = = 0,5 mL

Lampiran 17. Hewan Percobaan, Pemberian Induksi Asam Asetat 1%, Pemberian Oral bahan uji, pengamatan Geliat



Hewan Percobaan



Pemberian Asam Asetat 1%

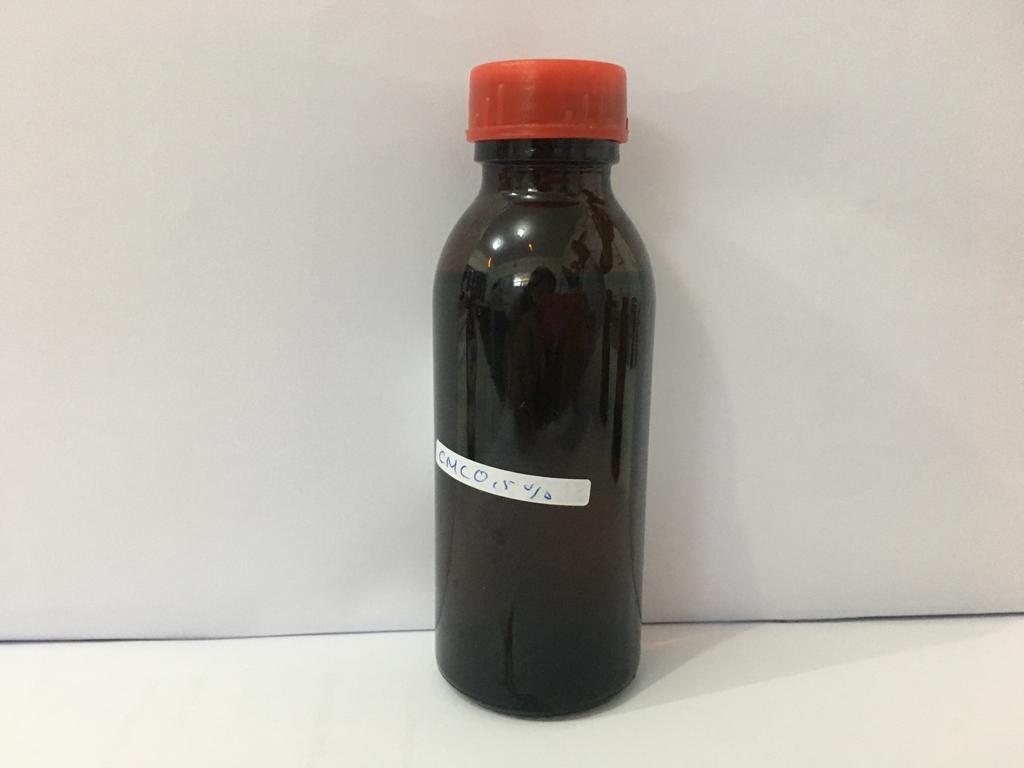


Pemberian Ekstrak Etanol Daun Eceng Gondok

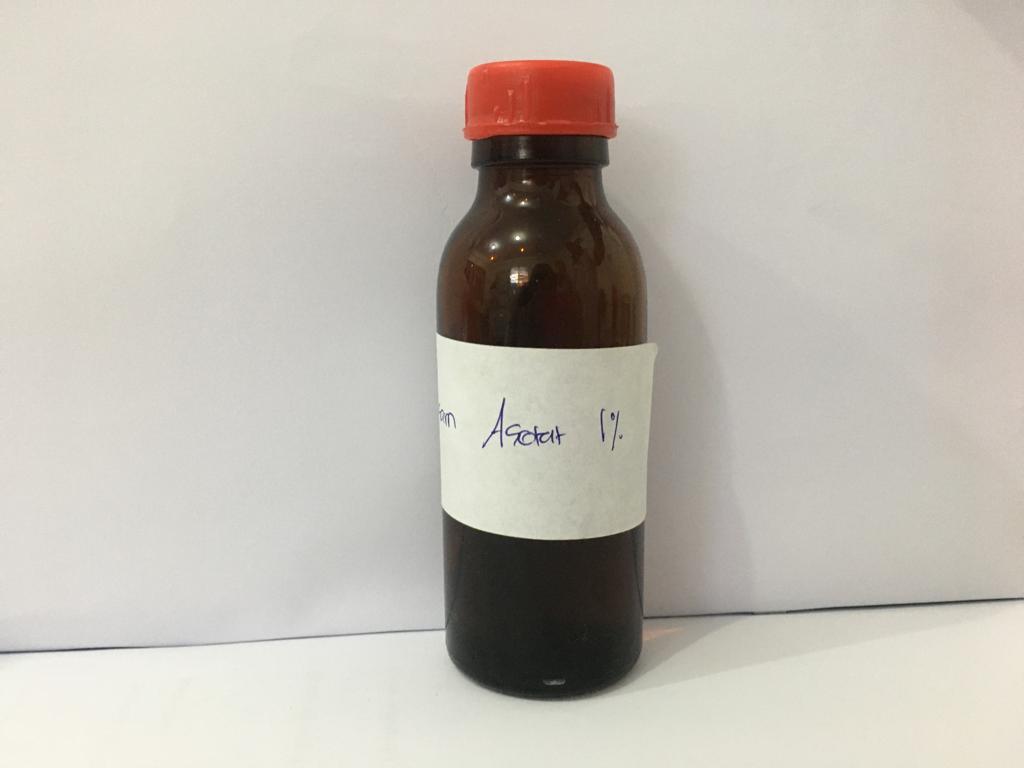


Pengamatan Geliat Mencit

Lampiran 18.Bahan Uji

****

CMC 0,5%

****

Asam Asetat 1%

****

Ekstrak Etanol Daun Eceng Gondok

Lampiran 19. Data jumlah geliat mencit putih jantaan yang diinduksi Asam Asetat 0,5% volume 0,5 mL danAsam Asetat 1% volume 0,2 mL

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| perlakuan | Menit  Mencit  Ke | 5ʹ | 10ʹ | 15ʹ | 20ʹ | 25ʹ | 30ʹ | 35ʹ | 40ʹ | 45ʹ | 50ʹ | 55ʹ | 60ʹ |
| Asam Asetat 1% volume 0,2 mL | 1 | 15 | 18 | 22 | 21 | 20 | 19 | 18 | 17 | 15 | 12 | 11 | 7 |
| 2 | 18 | 20 | 24 | 23 | 22 | 21 | 19 | 18 | 16 | 15 | 13 | 12 |
| 3 | 20 | 21 | 23 | 20 | 19 | 18 | 16 | 14 | 12 | 10 | 9 | 7 |
| 4 | 19 | 20 | 24 | 22 | 19 | 17 | 15 | 13 | 13 | 11 | 10 | 7 |
| 5 | 14 | 16 | 20 | 17 | 16 | 15 | 13 | 12 | 10 | 8 | 8 | 6 |
| Rata-rata | 17,2 | 19 | 22,6 | 20,6 | 19,2 | 18 | 16,2 | 14,8 | 13,2 | 11,2 | 10,2 | 7,8 |
| Asam Asetat 0,5 % volume 0,5 mL | 1 | 14 | 17 | 21 | 20 | 19 | 18 | 17 | 16 | 14 | 11 | 10 | 6 |
| 2 | 17 | 19 | 23 | 22 | 21 | 20 | 18 | 17 | 15 | 14 | 12 | 11 |
| 3 | 20 | 20 | 22 | 19 | 18 | 17 | 15 | 13 | 11 | 9 | 8 | 6 |
| 4 | 19 | 19 | 23 | 21 | 18 | 16 | 14 | 12 | 12 | 10 | 9 | 6 |
| 5 | 13 | 16 | 19 | 16 | 15 | 14 | 12 | 11 | 9 | 7 | 7 | 5 |
| Rata-rata | 16,6 | 18,2 | 21,6 | 19,6 | 18,2 | 17 | 15,2 | 13,8 | 12,2 | 10,2 | 9,2 | 6,8 |

Lampiran 20.Data hasil pengamatan geliat mencit putih jantan setelah pemberian suspensi CMC 0,5%, suspensi Methampiron 1%, suspensi Ekstrak Etanol Daun Eceng Gondok 300, 400, dan 500 mg/kgBB selang waktu 5 menit selama 1 jam.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Perlakuan | Menit mencit ke | 5ʹ | 10ʹ | 15ʹ | 20ʹ | 25ʹ | 30ʹ | 35ʹ | 40ʹ | 45ʹ | 50ʹ | 55ʹ | 60ʹ |
| CMC 0,5% | 1 | 18 | 36 | 30 | 27 | 24 | 22 | 21 | 19 | 17 | 14 | 11 | 9 |
| 2 | 17 | 33 | 28 | 25 | 23 | 21 | 22 | 20 | 17 | 15 | 12 | 8 |
| 3 | 19 | 35 | 30 | 26 | 24 | 22 | 19 | 17 | 15 | 13 | 11 | 8 |
| 4 | 16 | 16 | 27 | 24 | 21 | 18 | 16 | 14 | 12 | 10 | 9 | 7 |
| 5 | 19 | 35 | 29 | 27 | 25 | 22 | 19 | 17 | 15 | 13 | 11 | 9 |
| Rata-rata | 17,8 | 24,2 | 28,8 | 25,8 | 23,4 | 21 | 19,4 | 17,4 | 15,2 | 13 | 10,8 | 8,2 |
| Methampiron 1% | 1 | 15 | 24 | 17 | 13 | 9 | 6 | 4 | 2 | 0 | 0 | 0 | 0 |
| 2 | 16 | 25 | 18 | 15 | 10 | 7 | 4 | 3 | 1 | 0 | 0 | 0 |
| 3 | 13 | 22 | 16 | 14 | 10 | 6 | 4 | 2 | 1 | 0 | 0 | 0 |
| 4 | 14 | 24 | 17 | 14 | 10 | 7 | 5 | 3 | 2 | 1 | 0 | 0 |
| 5 | 16 | 26 | 18 | 13 | 8 | 5 | 3 | 1 | 0 | 0 | 0 | 0 |
| Rata-rata | 14,8 | 24,2 | 17,2 | 13,8 | 9,4 | 6,2 | 4 | 2,2 | 0,8 | 0,2 | 0 | 0 |
| EEDEG 300 mg/kgBB | 1 | 19 | 35 | 29 | 26 | 22 | 20 | 18 | 16 | 10 | 8 | 6 | 4 |
| 2 | 17 | 33 | 26 | 22 | 19 | 17 | 15 | 13 | 13 | 11 | 9 | 7 |
| 3 | 18 | 34 | 27 | 24 | 21 | 18 | 16 | 14 | 12 | 10 | 8 | 6 |
| 4 | 18 | 35 | 29 | 25 | 22 | 19 | 17 | 15 | 13 | 11 | 9 | 8 |
| 5 | 16 | 32 | 26 | 23 | 20 | 18 | 15 | 13 | 11 | 9 | 6 | 4 |
| Rata-rata | 7,6 | 33,8 | 27,2 | 24 | 20,8 | 18,4 | 16,2 | 14,2 | 11,8 | 9,8 | 7,6 | 5,8 |
| EEDEG 400 mg/kgBB | 1 | 17 | 31 | 25 | 20 | 18 | 15 | 13 | 10 | 8 | 7 | 5 | 3 |
| 2 | 15 | 29 | 24 | 19 | 16 | 14 | 12 | 9 | 7 | 6 | 4 | 2 |
| 3 | 17 | 30 | 26 | 22 | 19 | 16 | 13 | 10 | 7 | 5 | 5 | 2 |
| 4 | 18 | 27 | 23 | 23 | 20 | 19 | 14 | 10 | 8 | 6 | 4 | 1 |
| 5 | 16 | 24 | 20 | 20 | 17 | 20 | 12 | 11 | 8 | 7 | 4 | 4 |
| Rata-rata | 16,6 | 27,6 | 23,6 | 20,8 | 18 | 15,8 | 12,8 | 8,2 | 7,6 | 6,2 | 4,4 | 2,4 |
| EEDEG 500mg/kgBB | 1 | 17 | 31 | 24 | 15 | 13 | 11 | 8 | 5 | 3 | 1 | 0 | 1 |
| 2 | 14 | 26 | 20 | 13 | 11 | 8 | 6 | 4 | 2 | 0 | 1 | 0 |
| 3 | 16 | 30 | 18 | 12 | 9 | 6 | 4 | 1 | 0 | 0 | 1 | 0 |
| 4 | 15 | 27 | 22 | 14 | 11 | 8 | 6 | 2 | 0 | 0 | 0 | 0 |
| 5 | 13 | 24 | 18 | 13 | 10 | 7 | 5 | 3 | 1 | 0 | 0 | 0 |
| Rata-rata | 15 | 27,6 | 19,6 | 13 | 10,8 | 8 | 5,8 | 3 | 1,2 | 0,2 | 0,4 | 0,2 |

Lampiran 21. Distribusi Normalitas terhadap Jumlah geliat Masing-Masing Kelompok

Hipotesis :

Ho : Data jumlah geliat terdistribusi normal

Ha : Data jumlah geliat tidak terdistribusi normal

Kriteria uji :

Ho ditolak bila Sig.<0,05

Ha diterima bila Sig.>0,05

Hasil

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Normality** | | | | | | | |
| Menit | Perlakuan | Kolmogorov-Smirnova | | | Shapiro-Wilk | | |
| Statistic | df | Sig. | Statistic | df | Sig. |
| Menit\_5 | 1,00 | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| 2,00 | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| 3,00 | ,237 | 5 | ,200\* | ,961 | 5 | ,814 |
| 4,00 | ,237 | 5 | ,200\* | ,961 | 5 | ,814 |
| 5,00 | ,136 | 5 | ,200\* | ,987 | 5 | ,967 |
| Menit\_10 | 1,00 | ,393 | 5 | ,011 | ,664 | 5 | ,004 |
| 2,00 | ,246 | 5 | ,200\* | ,956 | 5 | ,777 |
| 3,00 | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| 4,00 | ,213 | 5 | ,200\* | ,939 | 5 | ,656 |
| 5,00 | ,198 | 5 | ,200\* | ,951 | 5 | ,742 |
| Menit\_15 | 1,00 | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| 2,00 | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| 3,00 | ,254 | 5 | ,200\* | ,803 | 5 | ,086 |
| 4,00 | ,197 | 5 | ,200\* | ,943 | 5 | ,685 |
| 5,00 | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| Menit\_20 | 1,00 | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| 2,00 | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| 3,00 | ,136 | 5 | ,200\* | ,987 | 5 | ,967 |
| 4,00 | ,287 | 5 | ,200\* | ,914 | 5 | ,490 |
| 5,00 | ,237 | 5 | ,200\* | ,961 | 5 | ,814 |
| Menit\_25 | 1,00 | ,254 | 5 | ,200\* | ,914 | 5 | ,492 |
| 2,00 | ,349 | 5 | ,046 | ,771 | 5 | ,046 |
| 3,00 | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| 4,00 | ,136 | 5 | ,200\* | ,987 | 5 | ,967 |
| 5,00 | ,246 | 5 | ,200\* | ,956 | 5 | ,777 |
| Menit\_30 | 1,00 | ,318 | 5 | ,109 | ,701 | 5 | ,010 |
| 2,00 | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| 3,00 | ,237 | 5 | ,200\* | ,961 | 5 | ,814 |
| 4,00 | ,221 | 5 | ,200\* | ,915 | 5 | ,501 |
| 5,00 | ,300 | 5 | ,161 | ,908 | 5 | ,453 |
| Menit\_35 | 1,00 | ,231 | 5 | ,200\* | ,943 | 5 | ,685 |
| 2,00 | ,300 | 5 | ,161 | ,883 | 5 | ,325 |
| 3,00 | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| 4,00 | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| 5,00 | ,246 | 5 | ,200\* | ,956 | 5 | ,777 |
| Menit\_40 | 1,00 | ,231 | 5 | ,200\* | ,943 | 5 | ,685 |
| 2,00 | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| 3,00 | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| 4,00 | ,300 | 5 | ,161 | ,883 | 5 | ,325 |
| 5,00 | ,136 | 5 | ,200\* | ,987 | 5 | ,967 |
| Menit\_45 | 1,00 | ,261 | 5 | ,200\* | ,862 | 5 | ,236 |
| 2,00 | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| 3,00 | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| 4,00 | ,367 | 5 | ,026 | ,684 | 5 | ,006 |
| 5,00 | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| Menit\_50 | 1,00 | ,300 | 5 | ,161 | ,908 | 5 | ,453 |
| 2,00 | ,473 | 5 | ,001 | ,552 | 5 | ,000 |
| 3,00 | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| 4,00 | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| 5,00 | ,473 | 5 | ,001 | ,552 | 5 | ,000 |
| Menit\_55 | 1,00 | ,372 | 5 | ,022 | ,828 | 5 | ,135 |
| 2,00 | . | 5 | . | . | 5 | . |
| 3,00 | ,254 | 5 | ,200\* | ,803 | 5 | ,086 |
| 4,00 | ,367 | 5 | ,026 | ,684 | 5 | ,006 |
| 5,00 | ,367 | 5 | ,026 | ,684 | 5 | ,006 |
| Menit\_60 | 1,00 | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| 2,00 | . | 5 | . | . | 5 | . |
| 3,00 | ,243 | 5 | ,200\* | ,894 | 5 | ,377 |
| 4,00 | ,237 | 5 | ,200\* | ,961 | 5 | ,814 |
| 5,00 | ,473 | 5 | ,001 | ,552 | 5 | ,000 |
| \*. This is a lower bound of the true significance. | | | | | | | |
| a. Lilliefors Significance Correction | | | | | | | |

Keterangan ;

Df = degreeof freedom/derajat kebebasan adalah jumlah total pengamatan dalam sampel (N) dikurangi banyaknya kendali (linear) bebas.

Sig = Signifikan (p-value) adalah tingkat kepercayaan

Kesimpulan : Ho diterima artinya uji normalitas jumlah geliat seluruh kelompok hewan uji terdistribusi normal.

Lampiran 22 Uji Homogentitas Varians terhadap JumlahGeliat Masing-masing Kelompok

Tujuan: Untuk mengetahui homogenitas varians jumlah geliat masing-masing kelompok

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test of Homogeneity of Variances** | | | | | |
|  | | Levene Statistic | df1 | df2 | Sig. |
| Menit\_5 | Based on Mean | ,217 | 4 | 20 | ,926 |
| Based on Median | ,226 | 4 | 20 | ,921 |
| Based on Median and with adjusted df | ,226 | 4 | 19,513 | ,921 |
| Based on trimmed mean | ,214 | 4 | 20 | ,928 |
| Menit\_10 | Based on Mean | 3,344 | 4 | 20 | ,030 |
| Based on Median | ,644 | 4 | 20 | ,637 |
| Based on Median and with adjusted df | ,644 | 4 | 4,945 | ,655 |
| Based on trimmed mean | 2,475 | 4 | 20 | ,077 |
| Menit\_15 | Based on Mean | 1,972 | 4 | 20 | ,138 |
| Based on Median | 1,259 | 4 | 20 | ,319 |
| Based on Median and with adjusted df | 1,259 | 4 | 13,296 | ,334 |
| Based on trimmed mean | 1,851 | 4 | 20 | ,159 |
| Menit\_20 | Based on Mean | ,998 | 4 | 20 | ,432 |
| Based on Median | ,436 | 4 | 20 | ,781 |
| Based on Median and with adjusted df | ,436 | 4 | 14,451 | ,781 |
| Based on trimmed mean | ,963 | 4 | 20 | ,449 |
| Menit\_25 | Based on Mean | ,299 | 4 | 20 | ,875 |
| Based on Median | ,267 | 4 | 20 | ,896 |
| Based on Median and with adjusted df | ,267 | 4 | 17,495 | ,895 |
| Based on trimmed mean | ,302 | 4 | 20 | ,873 |
| Menit\_30 | Based on Mean | 1,948 | 4 | 20 | ,142 |
| Based on Median | ,890 | 4 | 20 | ,488 |
| Based on Median and with adjusted df | ,890 | 4 | 14,368 | ,495 |
| Based on trimmed mean | 1,898 | 4 | 20 | ,150 |
| Menit\_35 | Based on Mean | 1,713 | 4 | 20 | ,187 |
| Based on Median | 1,205 | 4 | 20 | ,340 |
| Based on Median and with adjusted df | 1,205 | 4 | 11,524 | ,361 |
| Based on trimmed mean | 1,748 | 4 | 20 | ,179 |
| Menit\_40 | Based on Mean | 1,877 | 4 | 20 | ,154 |
| Based on Median | 1,390 | 4 | 20 | ,273 |
| Based on Median and with adjusted df | 1,390 | 4 | 10,828 | ,301 |
| Based on trimmed mean | 1,906 | 4 | 20 | ,149 |
| Menit\_45 | Based on Mean | 1,425 | 4 | 20 | ,262 |
| Based on Median | 1,118 | 4 | 20 | ,376 |
| Based on Median and with adjusted df | 1,118 | 4 | 11,796 | ,394 |
| Based on trimmed mean | 1,466 | 4 | 20 | ,250 |
| Menit\_50 | Based on Mean | 1,728 | 4 | 20 | ,183 |
| Based on Median | 1,793 | 4 | 20 | ,170 |
| Based on Median and with adjusted df | 1,793 | 4 | 10,163 | ,206 |
| Based on trimmed mean | 1,814 | 4 | 20 | ,166 |
| Menit\_55 | Based on Mean | 6,531 | 4 | 20 | ,002 |
| Based on Median | 2,286 | 4 | 20 | ,096 |
| Based on Median and with adjusted df | 2,286 | 4 | 13,466 | ,114 |
| Based on trimmed mean | 6,112 | 4 | 20 | ,002 |
| Menit\_60 | Based on Mean | 6,293 | 4 | 20 | ,002 |
| Based on Median | 3,750 | 4 | 20 | ,020 |
| Based on Median and with adjusted df | 3,750 | 4 | 12,698 | ,031 |
| Based on trimmed mean | 6,396 | 4 | 20 | ,002 |

Lampiran 23Analisis Varian Satu Arah Maing-Maing Kelompok Perlakuan Terhadap Jumlah Geliat

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | | |
|  | | Sum of Squares | Df | Mean Square | F | Sig. |
| Menit\_5 | Between Groups | 39,760 | 4 | 9,940 | 5,847 | ,003 |
| Within Groups | 34,000 | 20 | 1,700 |  |  |
| Total | 73,760 | 24 |  |  |  |
| Menit\_10 | Between Groups | 263,360 | 4 | 65,840 | 3,602 | ,023 |
| Within Groups | 365,600 | 20 | 18,280 |  |  |
| Total | 628,960 | 24 |  |  |  |
| Menit\_15 | Between Groups | 463,040 | 4 | 115,760 | 34,452 | ,000 |
| Within Groups | 67,200 | 20 | 3,360 |  |  |
| Total | 530,240 | 24 |  |  |  |
| Menit\_20 | Between Groups | 656,560 | 4 | 164,140 | 92,213 | ,000 |
| Within Groups | 35,600 | 20 | 1,780 |  |  |
| Total | 692,160 | 24 |  |  |  |
| Menit\_25 | Between Groups | 756,240 | 4 | 189,060 | 99,505 | ,000 |
| Within Groups | 38,000 | 20 | 1,900 |  |  |
| Total | 794,240 | 24 |  |  |  |
| Menit\_30 | Between Groups | 865,040 | 4 | 216,260 | 71,138 | ,000 |
| Within Groups | 60,800 | 20 | 3,040 |  |  |
| Total | 925,840 | 24 |  |  |  |
| Menit\_35 | Between Groups | 874,160 | 4 | 218,540 | 105,067 | ,000 |
| Within Groups | 41,600 | 20 | 2,080 |  |  |
| Total | 915,760 | 24 |  |  |  |
| Menit\_40 | Between Groups | 900,960 | 4 | 225,240 | 105,252 | ,000 |
| Within Groups | 42,800 | 20 | 2,140 |  |  |
| Total | 943,760 | 24 |  |  |  |
| Menit\_45 | Between Groups | 811,040 | 4 | 202,760 | 117,884 | ,000 |
| Within Groups | 34,400 | 20 | 1,720 |  |  |
| Total | 845,440 | 24 |  |  |  |
| Menit\_50 | Between Groups | 653,440 | 4 | 163,360 | 129,651 | ,000 |
| Within Groups | 25,200 | 20 | 1,260 |  |  |
| Total | 678,640 | 24 |  |  |  |
| Menit\_55 | Between Groups | 431,360 | 4 | 107,840 | 131,512 | ,000 |
| Within Groups | 16,400 | 20 | ,820 |  |  |
| Total | 447,760 | 24 |  |  |  |
| Menit\_60 | Between Groups | 257,840 | 4 | 64,460 | 59,685 | ,000 |
| Within Groups | 21,600 | 20 | 1,080 |  |  |
| Total | 279,440 | 24 |  |  |  |

Lampiran 24Uji Turkey /Uji Beda Nyata Antar kelompok Perlakuan

Tujuan: Untuk mengetahui pada kelompok mana terdapatperbedaan jumlah geliat yang bermakna

Hipotesis:

Ho : Datajumlah geliat antar kelompok perlakuan tidak berbeda secara bermakna

Ha : Data jumlah geliat anatar kelompok perlakuan berbeda secara bermakna

Kriteria hasiluji :

Ho ditolak bila Sig.<0,05

Ha diterima bila Sig.>0,05

Hasil

|  |  |  |  |
| --- | --- | --- | --- |
| **Menit\_5** | | | |
| Tukey HSDa | | | |
| X | N | Subset for alpha = 0.05 | |
| 1 | 2 |
| Methamiron 1% | 5 | 14,8000 |  |
| EEDEG 500 mg/kgBB | 5 | 15,0000 |  |
| EEDEG 400 mg/kgBB | 5 | 16,6000 | 16,6000 |
| EEDEG 300mg/kg BB | 5 |  | 17,6000 |
| CMC 0,5% | 5 |  | 17,8000 |
| Sig. |  | ,226 | ,601 |
| Means for groups in homogeneous subsets are displayed. | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Menit\_10** | | | |
| Tukey HSDa | | | |
| X | N | Subset for alpha = 0.05 | |
| 1 | 2 |
| Methamiron 1% | 5 | 24,2000 |  |
| EEDEG 500 mg/kgBB | 5 | 27,6000 | 27,6000 |
| EEDEG 400 mg/kgBB | 5 | 28,2000 | 28,2000 |
| CMC 0,5% | 5 | 31,0000 | 31,0000 |
| EEDEG 300mg/kg BB | 5 |  | 33,8000 |
| Sig. |  | ,127 | ,188 |
| Means for groups in homogeneous subsets are displayed. | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Menit\_15** | | | | |
| Tukey HSDa | | | | |
| X | N | Subset for alpha = 0.05 | | |
| 1 | 2 | 3 |
| Methamiron 1% | 5 | 17,2000 |  |  |
| EEDEG 500 mg/kgBB | 5 | 20,4000 | 20,4000 |  |
| EEDEG 400 mg/kgBB | 5 |  | 23,6000 |  |
| EEDEG 300mg/kg BB | 5 |  |  | 27,4000 |
| CMC 0,5% | 5 |  |  | 28,8000 |
| Sig. |  | ,080 | ,080 | ,747 |
| Means for groups in homogeneous subsets are displayed. | | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Menit\_20** | | | | |
| Tukey HSDa | | | | |
| X | N | Subset for alpha = 0.05 | | |
| 1 | 2 | 3 |
| EEDEG 500 mg/kgBB | 5 | 13,4000 |  |  |
| Methamiron 1% | 5 | 13,8000 |  |  |
| EEDEG 400 mg/kgBB | 5 |  | 20,8000 |  |
| EEDEG 300mg/kg BB | 5 |  |  | 24,0000 |
| CMC 0,5% | 5 |  |  | 25,8000 |
| Sig. |  | ,989 | 1,000 | ,245 |
| Means for groups in homogeneous subsets are displayed. | | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Menit\_25** | | | | |
| Tukey HSDa | | | | |
| X | N | Subset for alpha = 0.05 | | |
| 1 | 2 | 3 |
| Methamiron 1% | 5 | 9,4000 |  |  |
| EEDEG 500 mg/kgBB | 5 | 10,8000 |  |  |
| EEDEG 400 mg/kgBB | 5 |  | 18,0000 |  |
| EEDEG 300mg/kg BB | 5 |  |  | 20,8000 |
| CMC 0,5% | 5 |  |  | 23,4000 |
| Sig. |  | ,511 | 1,000 | ,051 |
| Means for groups in homogeneous subsets are displayed. | | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Menit\_30** | | | | |
| Tukey HSDa | | | | |
| X | N | Subset for alpha = 0.05 | | |
| 1 | 2 | 3 |
| Methamiron 1% | 5 | 6,2000 |  |  |
| EEDEG 500 mg/kgBB | 5 | 8,0000 |  |  |
| EEDEG 400 mg/kgBB | 5 |  | 16,8000 |  |
| EEDEG 300mg/kg BB | 5 |  | 18,4000 | 18,4000 |
| CMC 0,5% | 5 |  |  | 21,0000 |
| Sig. |  | ,495 | ,604 | ,168 |
| Means for groups in homogeneous subsets are displayed. | | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Menit\_35** | | | | | |
| Tukey HSDa | | | | | |
| X | N | Subset for alpha = 0.05 | | | |
| 1 | 2 | 3 | 4 |
| Methamiron 1% | 5 | 4,0000 |  |  |  |
| EEDEG 500 mg/kgBB | 5 | 5,8000 |  |  |  |
| EEDEG 400 mg/kgBB | 5 |  | 12,8000 |  |  |
| EEDEG 300mg/kg BB | 5 |  |  | 16,2000 |  |
| CMC 0,5% | 5 |  |  |  | 19,4000 |
| Sig. |  | ,314 | 1,000 | 1,000 | 1,000 |
| Means for groups in homogeneous subsets are displayed. | | | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Menit\_40** | | | | | |
| Tukey HSDa | | | | | |
| X | N | Subset for alpha = 0.05 | | | |
| 1 | 2 | 3 | 4 |
| Methamiron 1% | 5 | 2,2000 |  |  |  |
| EEDEG 500 mg/kgBB | 5 | 3,0000 |  |  |  |
| EEDEG 400 mg/kgBB | 5 |  | 10,0000 |  |  |
| EEDEG 300mg/kg BB | 5 |  |  | 14,2000 |  |
| CMC 0,5% | 5 |  |  |  | 17,4000 |
| Sig. |  | ,906 | 1,000 | 1,000 | 1,000 |
| Means for groups in homogeneous subsets are displayed. | | | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Menit\_45** | | | | | |
| Tukey HSDa | | | | | |
| X | N | Subset for alpha = 0.05 | | | |
| 1 | 2 | 3 | 4 |
| Methamiron 1% | 5 | ,8000 |  |  |  |
| EEDEG 500 mg/kgBB | 5 | 1,2000 |  |  |  |
| EEDEG 400 mg/kgBB | 5 |  | 7,6000 |  |  |
| EEDEG 300mg/kg BB | 5 |  |  | 11,8000 |  |
| CMC 0,5% | 5 |  |  |  | 15,2000 |
| Sig. |  | ,988 | 1,000 | 1,000 | 1,000 |
| Means for groups in homogeneous subsets are displayed. | | | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Menit\_50** | | | | | |
| Tukey HSDa | | | | | |
| X | N | Subset for alpha = 0.05 | | | |
| 1 | 2 | 3 | 4 |
| Methamiron 1% | 5 | ,2000 |  |  |  |
| EEDEG 500 mg/kgBB | 5 | ,2000 |  |  |  |
| EEDEG 400 mg/kgBB | 5 |  | 6,2000 |  |  |
| EEDEG 300mg/kg BB | 5 |  |  | 9,8000 |  |
| CMC 0,5% | 5 |  |  |  | 13,0000 |
| Sig. |  | 1,000 | 1,000 | 1,000 | 1,000 |
| Means for groups in homogeneous subsets are displayed. | | | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Menit\_55** | | | | | |
| Tukey HSDa | | | | | |
| X | N | Subset for alpha = 0.05 | | | |
| 1 | 2 | 3 | 4 |
| Methamiron 1% | 5 | ,0000 |  |  |  |
| EEDEG 500 mg/kgBB | 5 | ,4000 |  |  |  |
| EEDEG 400 mg/kgBB | 5 |  | 4,4000 |  |  |
| EEDEG 300mg/kg BB | 5 |  |  | 7,6000 |  |
| CMC 0,5% | 5 |  |  |  | 10,8000 |
| Sig. |  | ,954 | 1,000 | 1,000 | 1,000 |
| Means for groups in homogeneous subsets are displayed. | | | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Menit\_60** | | | | | |
| Tukey HSDa | | | | | |
| X | N | Subset for alpha = 0.05 | | | |
| 1 | 2 | 3 | 4 |
| Methamiron 1% | 5 | ,0000 |  |  |  |
| EEDEG 500 mg/kgBB | 5 | ,2000 |  |  |  |
| EEDEG 400 mg/kgBB | 5 |  | 2,4000 |  |  |
| EEDEG 300mg/kg BB | 5 |  |  | 5,8000 |  |
| CMC 0,5% | 5 |  |  |  | 8,2000 |
| Sig. |  | ,998 | 1,000 | 1,000 | 1,000 |
| Means for groups in homogeneous subsets are displayed. | | | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | | | |

Kesimpulan :

1. Kontrol positif (suspensi methampiron 1%) dansuspensi EEDEG 300, 400, dan 500 mg/kgBB menunjukka efek analgetik yang berbeda bermakna terhadap kelompok negatif.

2. Kontrol positif (suspensi methampiron 1%) menunjukkan efek analgetik yang berbeda bermakna terhadap kelompok negatif (CMC 0,5%).

Lampiran 25. Perhitungan Persentase Daya Analgetik

Rumus % Daya Analgetik

Jumlah rata-rata geliat kelompok bahan uji

Jumlah rata-rata kelompok kontrol negatif

% daya Analgetik = { 100 - x 100% }

1. Kontrol Positif (Metampiron 1%)

14,3

17,8

Menit ke 5 = x 100%

= 100 – 83,15

= 16,85%

Dengan cara yang sama dihitung menit selanjutnya sampai menit ke-60.

Diperoleh :

Menit ke 10 = 29,24%

Menit ke 15 = 40,28%

Menit ke 20 = 46,51%

Menit ke 25 = 59,83%

Menit ke 30 = 70,48%

Menit ke 35 = 79,38%

Menit ke 40 = 87,36%

Menit ke 45 = 94,74%

Menit ke 50 = 98,46%

Menit ke 55 = 100%

Menit ke 60 = 100%

2. Ekstrak Etanol Daun Eceng Gondok (EEDEG) 300 mg/kgBB

17,6

17,8

Menit ke 5 = 100 – ( x 100%)

= 100 – 98,88 = 1,12%

(lanjutan)

Dengan cara yang sama dihitung menit selajutnya sampai menit ke-60, diiperoleh:

Menit ke 10 = 1,17%

Menit ke 15 = 6,25%

Menit ke 15 = 6,25%

Menit ke 20 = 6,98%

Menit ke 25 = 11,11%

Menit ke 30 = 12,38%

Menit ke 35 = 16,5%

Menit ke 40 = 18,39%

Menit ke 45 = 28,95%

Menit ke 50 = 24,62%

Menit ke 55 = 26,93%

Menit ke 60 = 29,27%

3. Ekstrak Etanol Daun Eceng Gondok (EEDEG) 400 mg/kgBB

16,6

17,8

Menit ke 5 = 100 – ( x 100%)

= 100 – 93,26

= 6,74%

Dengan cara yag sama dihitung menit selanjutnya sampai menit ke-60,diperoleh:

Menit ke 10 = 12,8%

Menit ke 15 = 18,06%

Menit ke 20 =19,38%

Menit ke 25 = 23,08%

Menit ke 30 = 24,76%

Lampiran (lanjutan)

Menit ke 35 = 34,02%

Menit ke 40 =52,87%

Menit ke 45 = 50,33%

Menitke 50 = 52,3%

Menit ke 55 = 57,7%

Menit ke 60 = 70,735 %

4. Ekstrak Etanol Daun Eceng Gondok (EEDEG) 500 mg/kgBB

15

17,8

Menit ke 5 = 100 - ( x 100 %)

= 100 – 84,27

= 15,73 %

Dengan cara yang sama dihitung menit selanjutnya sampai menit ke-60,diperoleh:

Menit ke10 = 19,39%

Menitke 15 = 31,95%

Menit ke 20 = 48,06%

Menit ke 25 =53,85%

Menit ke 30 = 61,91%

Menit ke 35 = 70,1%

Menit ke 40 = 82,76%

Menit ke 45 = 92,19%

Menit ke 50 = 98,46%

Menit ke 55 = 96,3%

Menit ke 60 =97,57%