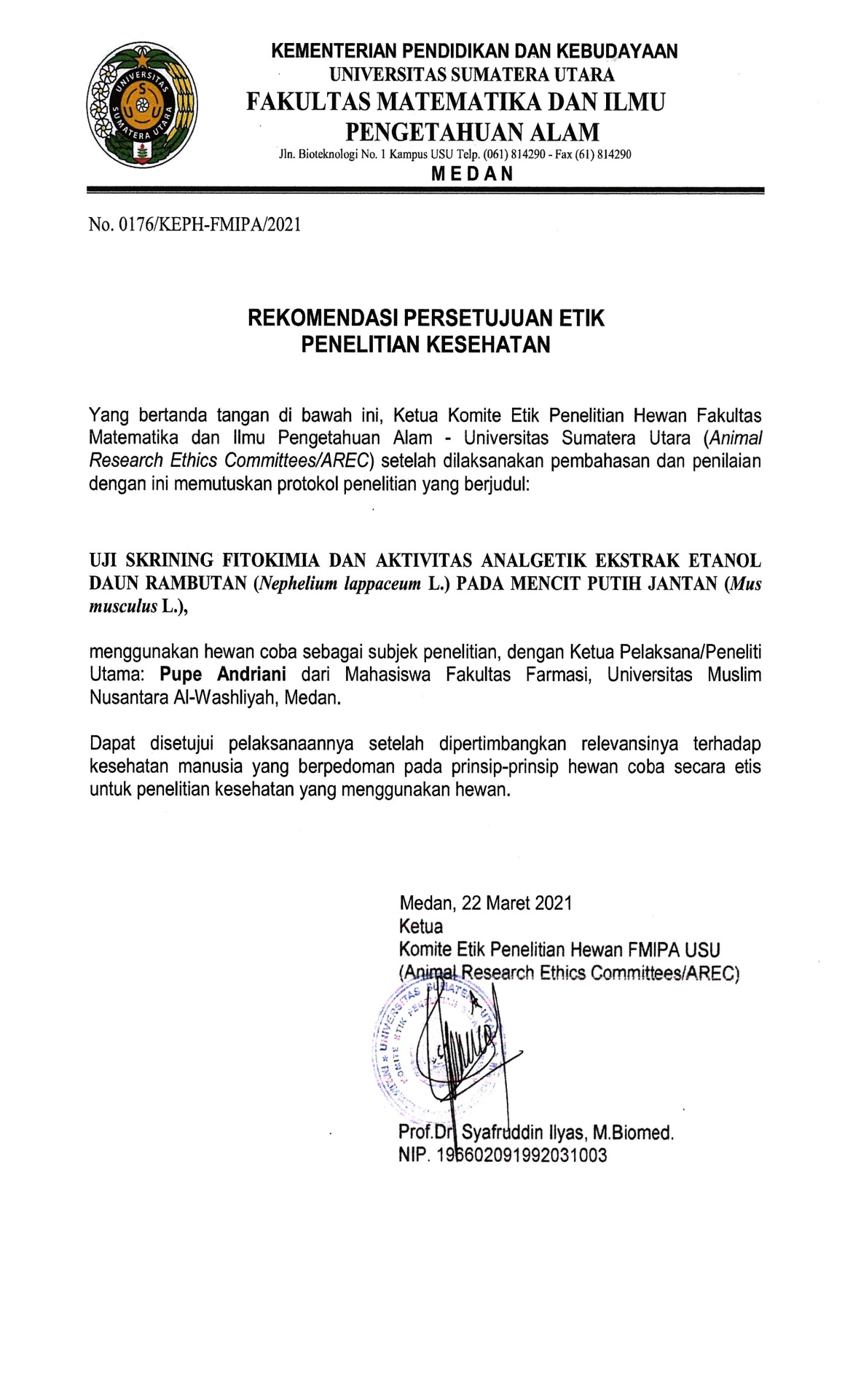
**Lampiran 1.** Hasil Determinasi Tumbuhan

**Lampiran 2.** Rekomendasi Persetujuan Etik Penelitian

**Lampiran 3.** Bagan Alir Penelitian

Rotary evaporator

Hasil

Uji efektivitas Analgetik

Suspensi ekstrak daun rambutan

Ekstrak kental

Maserat

Hasil

Hasil

Karakterisasi

Skrining fitokimia

Serbuk kering

Serbuk kering

Serbuk kering

Dicuci bersih,ditiriskan, lalu dikeringkan lalu dihaluskan

Daun Rambutan

Maserasi dengan pelarut etanol 96%

**Lampiran 4.**Bagan Alir Pembuatan Simplisia

Tumbuhan daun Rambutan 5 kg

Disortasi basah

Dicuci

Digunting/Dipotong

Berat basah 4,9 kg

Dikeringkan dilemari pengering

Disortasi kering

Berat kering 825 g

Dihaluskan dengan menggunakan blender

Serbuk simplisia daun Rambutan 700 g

**Lampiran 5.**Bagan Alir Pembuatan Ekstrak Daun Rambutan

Serbuk simplisia daun rambutan 500 gram

*Swartz)*

Dimasukkan dalam bejana

Ditambah dengan 75 bagian   
 etanol 96%

Ditutup dan dibiarkan selama 5 hari sambil diaduk-aduk sesekali

Setelah 5 hari maserat diserkai dan ampasnya diperas

Ampas

Maserat I

Dicuci dengan 25 bagian etanol 96%

Dimasukkan kedalam bejana tertutup, di biarkan selama 2 hari dan disaring

Maserat II

Maserat I + Maserat II

Dipekatkan dengan *Rotary Evaporator*

Ekstrak kental 120 g

**Lampiran 6.**Bagan Alir Skrining Fitokimia dan Karakterisasi

Serbuk Simplisia Daun

Rambutan

Serbuk Simplisia Daun Rambutan

Serbuk Simplisia Daun Rambutan

Di maserasi menggunakan pelarut etanol 96%

Skrining Fitokimia

Karakterisasi

Ekstrak Etanol Daun Rambutan

1.PemeriksaanAlkaloida

2.PemeriksaanFlavonoida

3.PemeriksaanTanin

4.PemeriksaanSaponin

5.PemeriksaanSteroida/Triterpenoida

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

Uji Farmakologi

1.Pemeriksaan Alkaloida

2.Pemeriksaan Flavonoida

3.Pemeriksaan Tanin

4.Pemeriksaan Saponin

5.Pemeriksaan Steroida/Triterpenoida

**Lampiran 7.** Bagan Alir Uji Analgetik

Mencit

Dikondisikan selama 2 minggu

Dipuasakan selama 18- 24 jam

Di kelompokan secara acak menjadi 5 kelompok, masing-masing kelompok 5 ekor

Diinduksi asam asetat 1% secara intraperitonial

Mencit Nyeri

Dihitung jumlah geliat tiap 5 menit sampe menit ke 10

Setelah 10 menit diamati, setiap kelompok diberi perlakuan secara peroral:

Kel I CMC 0,5%

Kel II Methampiron 1%

Kel III EEDR 50 mg/kg BB

Kel IV EEDR 100 mg/kg BB

Kel V EEDR 200 mg/kg BB

Diamati geliatnya dan di hitung jumlah geliat tiap 5 menit sampai ke 60 menit

Jumlah geliat mencit

**Lampiran 8.** Daun Rambutan Segar, Simplisia dan Serbuk simplisia Daun Rambutan

Daun Rambutan Segar



Simplisia Daun Rambutan *(Nepheii lappacei folium)*

Serbuk Simplisia Daun Rambutan *(Nepheii lappacei folium)*

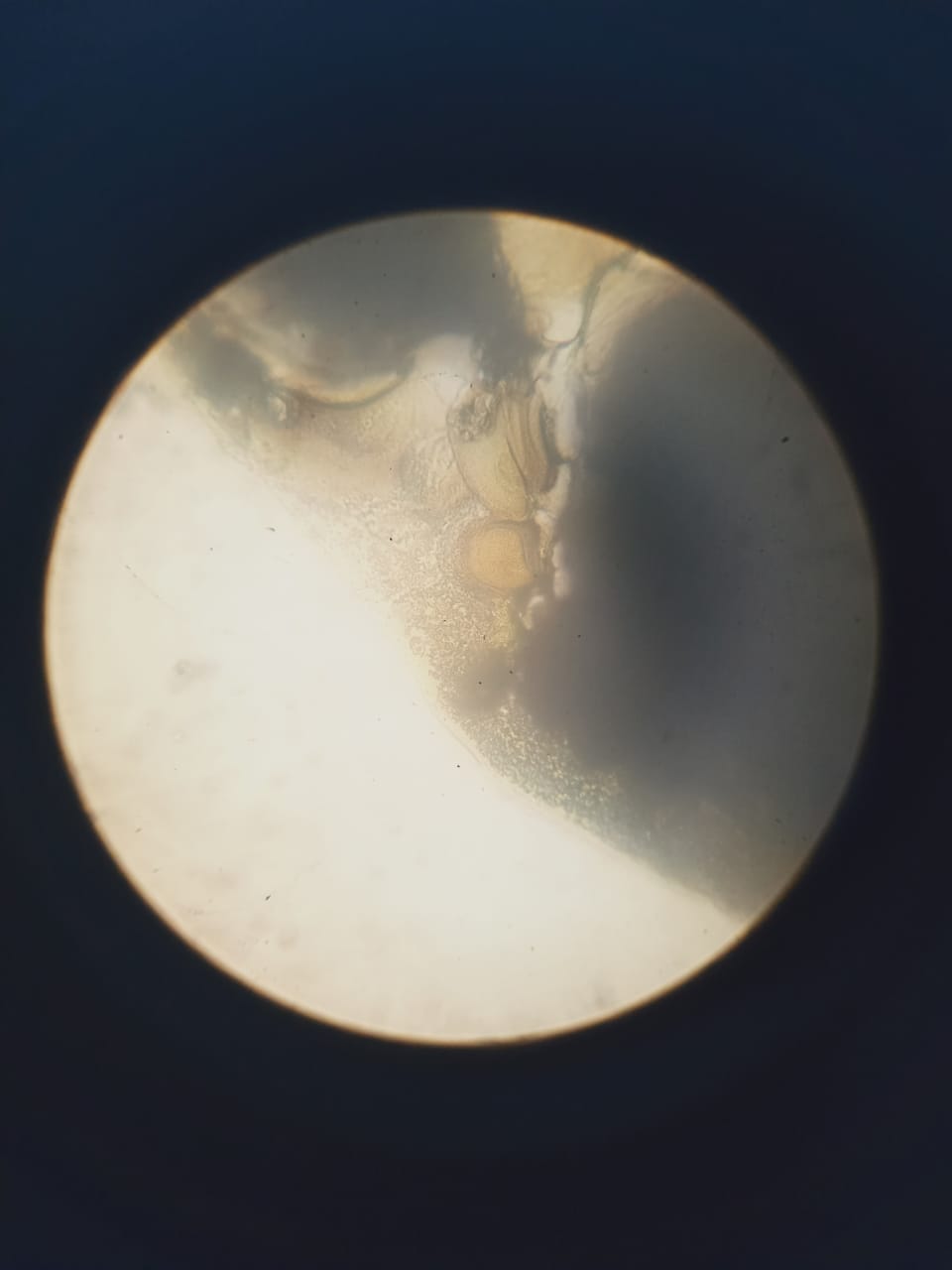
**Lampiran 9.** Maserasi dan Ekstrak Rambutan

Maserasi Daun Rambutan

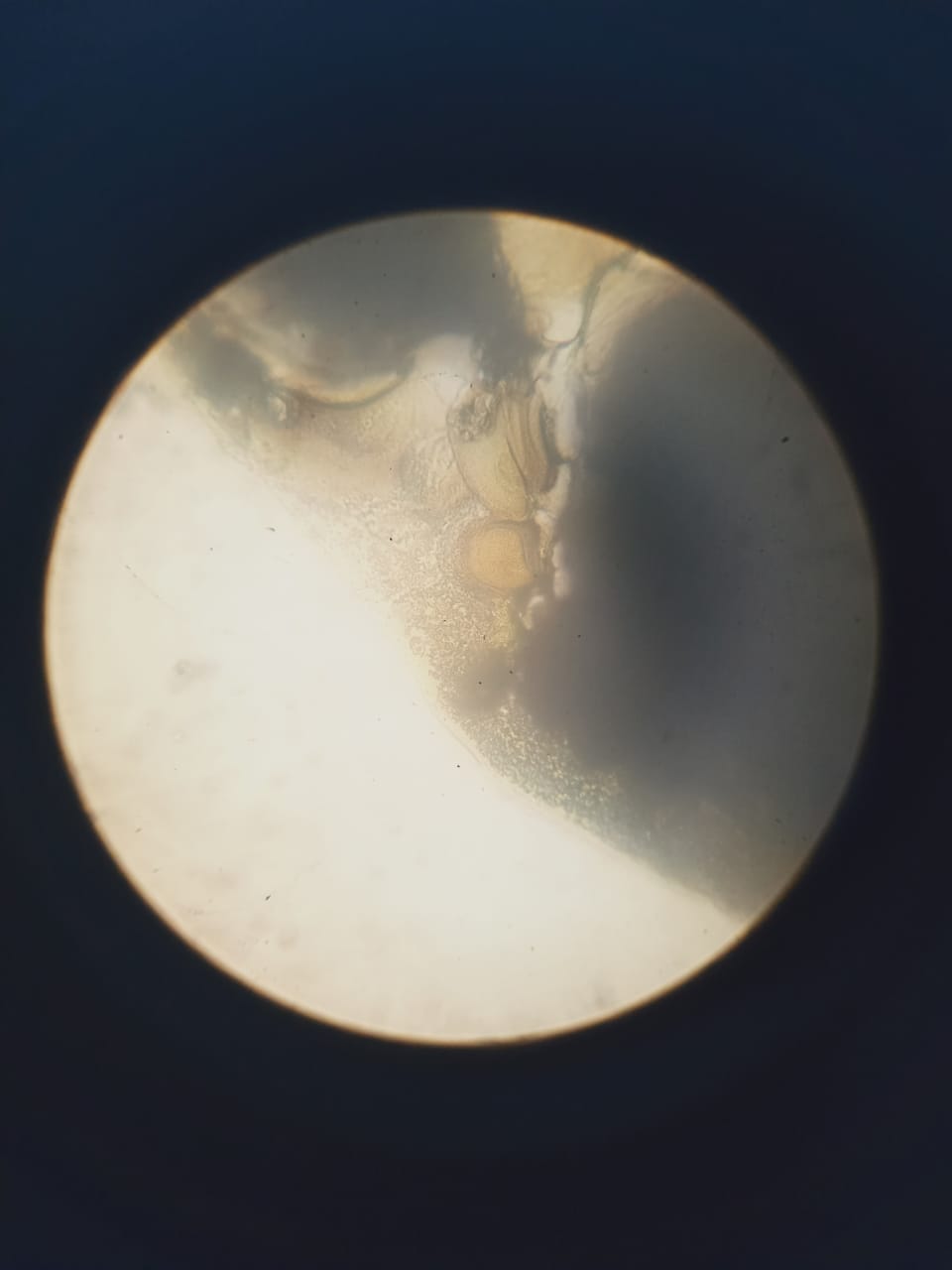


Ekstrak Daun Rambutan

**Lampiran 10.** Mikroskopik Daun Rambutan *(Nephelium lappaceum* L.*)*



Stomata tipe Siklositik



Epidermis

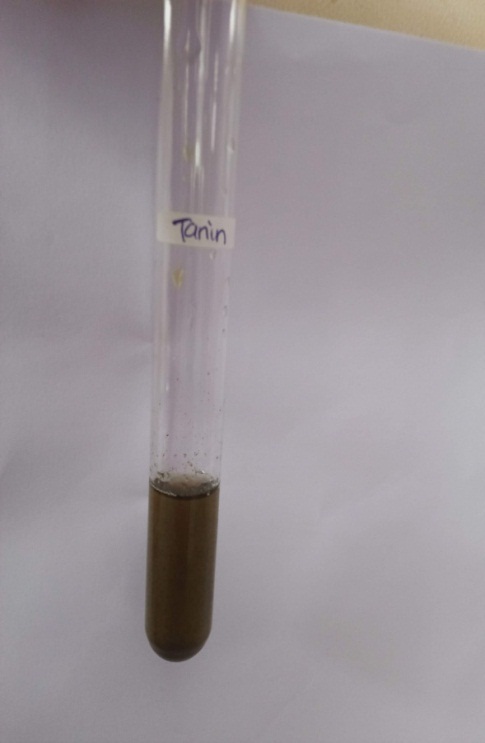
**Lampiran 11.** Alat Rotary Evaporator, Alat Azeotrop, Tanur

Alat Rotary Evaporator

Alat Azeotrop (Penetapan kadar air)

Alat Tanur (Penetapan kadar abu)

**Lampiran 12.** Hasil Skrining Ekstrak Daun Rambutan



Saponin (+)Tanin (+)



Flavonoid (+) Steroid/Terpenoid (-)

**Lampiran 12.** (Lanjutan)



Dragendorf (+)Mayer (-)



Bouchardat (-)

**Lampiran 13.** Hasil Perhitungan Parameter Karakteristik Simplisia

Berat kering = 825 gram

Berat serbuk = 500 gram

Berat ekstrak = 120 gram

% Randemen =

=24 %

1. Perhitungan Hasil Penetapan Kadar Air (Tidak lebih dari 10 %).

Sampel I

Berat sampel : 5 g

Volume I : 1,8 ml

Volume II : 2,1 ml

=

Sampel II

Berat sampel : 5 g

Volume I : 1,6 ml

Volume II : 1,9 ml

=

Sampel III

Berat sampel : 5 g

Volume I : 1,7ml

Volume II : 2 ml

=

Kadar air rata-rata: = = 6%

Kadar air pada daun Rambutan memenuhi syarat yaitu 6 %, tidak lebih dari 10%.

**Lampiran 13.** (Lanjutan)

1. Perhitungan Kadar Sari Larut dalam Air (8-35 %).

Sampel 1

Berat sampel : 5 g

Berat cawan kosong : 35,6 g

Berat cawansampel : 35,8 g

=

= = 20 %

Sampel II

Berat sampel :5 g

Berat cawan kosong :36,4 g

Berat cawan sampel :36,7 g

=

= = 30 %

Sampel III

Berat sampel :5 g

Berat cawan kosong :35,9 g

Berat cawansampel :36,1 g

=

= = 20 %

Kadar sari larut dalam air rata-rata: = = 23 %

Kadar sari larut dalam air pada daun Rambutan memenuhi syarat yaitu 23% lebih dari 8-35%.

**Lampiran 13.** (Lanjutan)

3. Perhitungan Kadar Sari Larut Dalam Etanol (lebih dari 5-26 %).

Kadar sari larut dalam etanol =

Sampel I

Berat sampel :5 g

Berat cawan kosong :36,8 g

Berat cawansampel :37,0 g

=

= = 20 %

Sampel II

Berat sampel :5 g

Berat cawan kosong :33,0 g

Berat cawan sampel :33,2 g

=

= = 20 %

Sampel III

Berat sampel :5 g

Berat cawan kosong :32,1 g

Berat cawan sampel :32,3 g

=

= = 20 %

Kadar sari larutdalametanol rata-rata: = = 20 %

Kadar sari larut dalam etanol pada daun Rambutan memenuhi syarat yaitu 20 %, lebih dari 5-26 %.

**Lampiran 13.** (Lanjutan)

4. Perhitungan Penetapan Kadar Abu Total (Tidak lebih dari 7-14 %)

Kadar Abu =

Sampel I

Berat sampel :2,5 g

Berat cawan kosong :64,2 g

Berat cawan sampel :64,7 g

=

= = 20 %

Sampel II

Berat sampel :2 g

Berat cawan kosong :64,9 g

Berat cawan sampel :65,2 g

=

= = 12 %

Sampel III

Berat sampel :2,5 g

Berat cawan kosong :62,4 g

Berat cawan sampel :62,9 g

=

= = 20 %

Kadar abu total rata-rata :== 20 %

Kadar abu total pada daun Rambutan tidak memenuhi syarat yaitu 20%, lebih dari 7-14%.

**Lampiran13.** (lanjutan)

5. Perhitungan Kadar Abu tidak Larut dalam Asam (tidak lebih dari 1-10%).

Kadar abu tidak larut asam =

Sampel I

Berat sampel :2,5 g

Berat cawan kosong :62,4 g

Berat cawan sampel :63 g

=

= = 24 %

Sampel II

Berat sampel :2,5 g

Berat cawan kosong :62,6 g

Berat cawan sampel :63,1 g

=

= = 20 %

Sampel III

Berat sampel :2,5 g

Berat cawan kosong :64,6 g

Berat cawansampel :65,1 g

=

= = 20 %

Kadar abutidaklarutdalamasam rata-rata:= = 21,3 %

Kadar abu tidak larut dalam asam pada daun Rambutan tidak memenuhi syarat yaitu 21,3%, lebih dari 1-10 %

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

Tabel . Konversi Perhitungan Dosis antara Jenis Hewan dan Manusia

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Hewan dan BB rata-rata | Men-cit  20 g | Tikus  200 g | Mar-mut  400 g | Kelin-ci  1,5 Kg | Kuci-ng  2 Kg | Kera  4 Kg | Anji-ng  12 Kg | Manu-sia  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 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 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 (200 g) | 1,0 | | 0,1 | 2-5 | | 2-5 | 5,0 |
| Hamster (50 g) | - | | 0,1 | 2-5 | | 2-5 | 2,5 |
| Marmut (250 g) | - | | 0,25 | 5,0 | | 5,0 | 10,0 |
| Kelinci (2,5 kg) | 5-10 | | 0,5 | 5-10 | | 5-10 | 20,0 |
| Kucing (3 kg) | 5-10 | | 1,0 | 5-10 | | 5-10 | 50,0 |
| Anjing (5 kg) | 10-20 | 5,0 | | 10,0 | 10,0 | | 100,0 |

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

**Lampiran 16.** Perhitungan Dosis

1. Dosis Methampiron (Antalgin)

Konversi dosis manusia ke dosis tikus

Dosis lazim methampiron pada manusia : 500 mg

Dosis mencit : 0,0026

Berat badan mencit : 20 g

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

= 1,3 mg/0,02 Kg

= 65 mg/kg BB

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

Dosis =

Contoh :

= 1,3 mg

Volume mL

2. Dosis CMC

Volume suspensi yang di berikan = 0,5mL

Suspensi CMC 0,5 %

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

**Lampiran 16.** (Lanjutan)

3. EEDR dosis 50 mg/kg BB

Berat Badan Mencit = 20 g

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

Dosis =

Contoh :

= 1 mg

Volume mL

4. EEDR dosis 100 mg/kg BB

Berat Badan Mencit = 20 g

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

Dosis =

Contoh :

= 2 mg

Volume mL

**Lampiran 16.** (Lanjutan)

5. EEDR dosis 200 mg/kg BB

Berat Badan Mencit = 20 g

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

Dosis =

Contoh :

= 4 mg

Volume mL

**Lampiran 17.** Hewan Percobaan, Pemberian induksi As.asetat 1% ,pemberian oral, Pengamatan geliat

Mencit *(Mus musculus)*

Pemberian Induksi As.asetat 1%

**Lampiran 17.** (Lanjutan)

Pemberian secara oral

Proses pengamatan geliat

**Lampiran 18**. Data Jumlah Geliat Mencit Putih Jantan yang diinduksi Asam Asetat 0,5% volume 0,5ml dan Asam Asetat 1% volume 0,2ml

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Perlakuan** | **Menit**  **Mencit**  **Ke** | **5'** | **10'** | **15'** | **20'** | **25'** | **30'** | **35'** | **40'** | **45'** | **50'** | **55'** | **60'** | **Jumlah**  **geliat** |
| Asam asetat  0,5%  Vol 0,5 ml | 1 | 15 | 18 | 22 | 20 | 19 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | **178** |
| 2 | 17 | 20 | 23 | 22 | 21 | 20 | 19 | 17 | 15 | 13 | 12 | 10 | **209** |
| 3 | 19 | 23 | 25 | 23 | 22 | 21 | 19 | 17 | 16 | 15 | 13 | 11 | **224** |
| 4 | 16 | 20 | 24 | 22 | 20 | 18 | 16 | 14 | 12 | 10 | 8 | 6 | **186** |
| 5 | 15 | 17 | 20 | 18 | 16 | 14 | 13 | 11 | 10 | 8 | 6 | 4 | **152** |
| **Rata-rata** | **16,4** | **19,6** | **22,8** | **21** | **19,6** | **18,2** | **16,6** | **14,6** | **13** | **11,2** | **9,4** | **7,4** | **189,8** |
| Asam asetat  1%  Vol 0,2 ml | 1 | 16 | 19 | 23 | 22 | 21 | 20 | 19 | 17 | 15 | 13 | 11 | 8 | **204** |
| 2 | 18 | 21 | 25 | 24 | 23 | 22 | 20 | 18 | 16 | 15 | 13 | 12 | **227** |
| 3 | 20 | 22 | 24 | 21 | 20 | 19 | 17 | 15 | 13 | 11 | 10 | 8 | **200** |
| 4 | 19 | 21 | 25 | 23 | 21 | 20 | 18 | 16 | 14 | 12 | 13 | 9 | **211** |
| 5 | 14 | 17 | 21 | 19 | 18 | 17 | 16 | 14 | 12 | 10 | 10 | 9 | **177** |
| **Rata-rata** | **17,4** | **20** | **23,6** | **21,8** | **20,6** | **19,6** | **18** | **16** | **14** | **12,2** | **11,4** | **9,2** | **203,8** |

**Lampiran 19**. Data Hasil Pengamatan Geliat Mencit Putih Jantan Setelah Pemberian Suspensi CMC 0,5%, Suspensi Metampiron 1%  
Suspensi Ekstrak Etanol Daun Rambutan Dosis 50,100 dan 200 mg/kg BB Selang Waktu 5 Menit Selama 1 Jam

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Perlakuan** | **Menit Mencit Ke-** | **5'** | **10'** | **15'** | **20'** | **25'** | **30'** | **35'** | **40'** | **45'** | **50'** | **55'** | **60'** | **Jumlah** |
| CMC 0,5% | 1 | 19 | 37 | 31 | 28 | 25 | 23 | 22 | 20 | 18 | 15 | 12 | 10 | **260** |
| 2 | 18 | 34 | 29 | 26 | 24 | 22 | 23 | 21 | 18 | 16 | 13 | 9 | **253** |
| 3 | 20 | 36 | 31 | 27 | 25 | 23 | 20 | 18 | 16 | 14 | 12 | 9 | **251** |
| 4 | 17 | 33 | 28 | 25 | 22 | 19 | 17 | 15 | 13 | 11 | 10 | 8 | **218** |
| 5 | 20 | 36 | 30 | 28 | 26 | 23 | 20 | 18 | 16 | 14 | 12 | 10 | **253** |
| **Rata-rata** | **18,8** | **35,2** | **29,8** | **26,8** | **24,4** | **22** | **20,4** | **18,4** | **16,2** | **14** | **11,8** | **9,2** | **247** |
| Metampiron  1% | 1 | 16 | 25 | 18 | 14 | 10 | 7 | 5 | 3 | 1 | 0 | 0 | 0 | **99** |
| 2 | 17 | 26 | 19 | 16 | 11 | 8 | 6 | 5 | 4 | 2 | 1 | 0 | **115** |
| 3 | 14 | 23 | 17 | 14 | 10 | 7 | 5 | 3 | 2 | 1 | 0 | 0 | **96** |
| 4 | 15 | 25 | 18 | 15 | 11 | 8 | 7 | 5 | 4 | 2 | 1 | 0 | **111** |
| 5 | 16 | 26 | 19 | 12 | 9 | 6 | 4 | 2 | 1 | 0 | 0 | 0 | **95** |
| **Rata-rata** | **15,6** | **25** | **18,2** | **14,2** | **10,2** | **7,2** | **5,4** | **3,6** | **2,4** | **1** | **0,4** | **0** | **103,2** |
| EDR  50 mg/kg BB | 1 | 19 | 36 | 28 | 25 | 21 | 19 | 17 | 15 | 9 | 7 | 5 | 3 | **204** |
| 2 | 18 | 32 | 25 | 21 | 18 | 16 | 14 | 12 | 12 | 10 | 8 | 6 | **192** |
| 3 | 17 | 33 | 26 | 23 | 20 | 17 | 15 | 13 | 11 | 9 | 7 | 5 | **197** |
| 4 | 18 | 35 | 28 | 24 | 21 | 18 | 16 | 14 | 12 | 10 | 8 | 7 | **210** |
| 5 | 17 | 33 | 25 | 22 | 19 | 17 | 14 | 12 | 10 | 8 | 5 | 3 | **185** |
| **Rata-rata** | **17,8** | **33,8** | **26,4** | **23** | **19,8** | **17,4** | **15,2** | **13,2** | **10,8** | **8,8** | **6,6** | **4,8** | **197,6** |
| EDR  100 mg/kg BB | 1 | 17 | 31 | 24 | 19 | 17 | 14 | 12 | 9 | 7 | 6 | 4 | 2 | **162** |
| 2 | 15 | 29 | 23 | 18 | 15 | 13 | 11 | 8 | 6 | 5 | 3 | 2 | **148** |
| 3 | 17 | 30 | 24 | 21 | 18 | 15 | 12 | 9 | 6 | 4 | 4 | 1 | **161** |
| 4 | 18 | 31 | 25 | 22 | 19 | 16 | 13 | 9 | 8 | 5 | 3 | 2 | **171** |
| 5 | 16 | 29 | 22 | 19 | 16 | 14 | 11 | 10 | 7 | 6 | 3 | 4 | **157** |
| **Rata-rata** | **16,6** | **30** | **23,6** | **19,8** | **17** | **14,4** | **11,8** | **9** | **6,8** | **5,2** | **3,4** | **2,2** | **159,8** |
| EDR  200 mg/kg BB | 1 | 18 | 32 | 25 | 21 | 16 | 14 | 12 | 9 | 6 | 4 | 2 | 1 | **160** |
| 2 | 15 | 27 | 21 | 17 | 14 | 12 | 9 | 7 | 5 | 3 | 1 | 0 | **131** |
| 3 | 17 | 31 | 19 | 15 | 13 | 10 | 7 | 5 | 2 | 1 | 1 | 0 | **121** |
| 4 | 16 | 28 | 23 | 18 | 15 | 12 | 9 | 7 | 3 | 1 | 0 | 0 | **132** |
| 5 | 14 | 25 | 19 | 16 | 14 | 11 | 8 | 6 | 4 | 2 | 1 | 0 | **120** |
| **Rata-rata** | **16** | **28,6** | **21,4** | **17,4** | **14,4** | **11,8** | **9** | **6,8** | **4** | **2,2** | **1** | **0,2** | **132,8** |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Lampiran 20.** 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 Normalityc** | | | | | | | |
|  | Perlakuan | Kolmogorov-Smirnova | | | Shapiro-Wilk | | |
|  | Statistic | df | Sig. | Statistic | Df | Sig. |
| Menit\_5 | Kontrol positif | ,237 | 5 | ,200\* | ,961 | 5 | ,814 |
| Kontrol negatif | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| EDR 50 mg/kg BB | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| EDR 100 mg/kg BB | ,237 | 5 | ,200\* | ,961 | 5 | ,814 |
| EDR 200 mg/kg BB | ,136 | 5 | ,200\* | ,987 | 5 | ,967 |
| Menit\_10 | Kontrol positif | ,300 | 5 | ,161 | ,833 | 5 | ,146 |
| Kontrol negatif | ,287 | 5 | ,200\* | ,914 | 5 | ,490 |
| EDR 50 mg/kg BB | ,287 | 5 | ,200\* | ,914 | 5 | ,490 |
| EDR 100 mg/kg BB | ,241 | 5 | ,200\* | ,821 | 5 | ,119 |
| EDR 200 mg/kg BB | ,198 | 5 | ,200\* | ,951 | 5 | ,742 |
| Menit\_15 | Kontrol positif | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| Kontrol negatif | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| EDR 50 mg/kg BB | ,254 | 5 | ,200\* | ,803 | 5 | ,086 |
| EDR 100 mg/kg BB | ,237 | 5 | ,200\* | ,961 | 5 | ,814 |
| EDR 200 mg/kg BB | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| Menit\_20 | Kontrol positif | ,246 | 5 | ,200\* | ,956 | 5 | ,777 |
| Kontrol negatif | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| EDR 50 mg/kg BB | ,136 | 5 | ,200\* | ,987 | 5 | ,967 |
| EDR 100 mg/kg BB | ,287 | 5 | ,200\* | ,914 | 5 | ,490 |
| EDR 200 mg/kg BB | ,197 | 5 | ,200\* | ,943 | 5 | ,685 |
| Menit\_25 | Kontrol positif | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| Kontrol negatif | ,254 | 5 | ,200\* | ,914 | 5 | ,492 |
| EDR 50 mg/kg BB | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| EDR 100 mg/kg BB | ,136 | 5 | ,200\* | ,987 | 5 | ,967 |
| EDR 200 mg/kg BB | ,237 | 5 | ,200\* | ,961 | 5 | ,814 |
| Menit\_30 | Kontrol positif | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| Kontrol negatif | ,318 | 5 | ,109 | ,701 | 5 | ,010 |
| EDR 50 mg/kg BB | ,237 | 5 | ,200\* | ,961 | 5 | ,814 |
| EDR 100 mg/kg BB | ,237 | 5 | ,200\* | ,961 | 5 | ,814 |
| EDR 200 mg/kg BB | ,246 | 5 | ,200\* | ,956 | 5 | ,777 |
| Menit\_35 | Kontrol positif | ,237 | 5 | ,200\* | ,961 | 5 | ,814 |
| Kontrol negatif | ,231 | 5 | ,200\* | ,943 | 5 | ,685 |
| EDR 50 mg/kg BB | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| EDR 100 mg/kg BB | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| EDR 200 mg/kg BB | ,300 | 5 | ,161 | ,908 | 5 | ,453 |
| Menit\_40 | Kontrol positif | ,273 | 5 | ,200\* | ,852 | 5 | ,201 |
| Kontrol negatif | ,231 | 5 | ,200\* | ,943 | 5 | ,685 |
| EDR 50 mg/kg BB | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| EDR 100 mg/kg BB | ,300 | 5 | ,161 | ,883 | 5 | ,325 |
| EDR 200 mg/kg BB | ,246 | 5 | ,200\* | ,956 | 5 | ,777 |
| Menit\_45 | Kontrol positif | ,254 | 5 | ,200\* | ,803 | 5 | ,086 |
| Kontrol negatif | ,261 | 5 | ,200\* | ,862 | 5 | ,236 |
| EDR 50 mg/kg BB | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| EDR 100 mg/kg BB | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| EDR 200 mg/kg BB | ,136 | 5 | ,200\* | ,987 | 5 | ,967 |
| Menit\_50 | Kontrol positif | ,241 | 5 | ,200\* | ,821 | 5 | ,119 |
| Kontrol negatif | ,300 | 5 | ,161 | ,908 | 5 | ,453 |
| EDR 50 mg/kg BB | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| EDR 100 mg/kg BB | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| EDR 200 mg/kg BB | ,221 | 5 | ,200\* | ,902 | 5 | ,421 |
| Menit\_55 | Kontrol positif | ,367 | 5 | ,026 | ,684 | 5 | ,006 |
| Kontrol negatif | ,372 | 5 | ,022 | ,828 | 5 | ,135 |
| EDR 50 mg/kg BB | ,254 | 5 | ,200\* | ,803 | 5 | ,086 |
| EDR 100 mg/kg BB | ,367 | 5 | ,026 | ,684 | 5 | ,006 |
| EDR 200 mg/kg BB | ,300 | 5 | ,161 | ,883 | 5 | ,325 |
| Menit\_60 | Kontrol negatif | ,231 | 5 | ,200\* | ,881 | 5 | ,314 |
| EDR 50 mg/kg BB | ,243 | 5 | ,200\* | ,894 | 5 | ,377 |
| EDR 100 mg/kg BB | ,372 | 5 | ,022 | ,828 | 5 | ,135 |
| EDR 200 mg/kg BB | ,473 | 5 | ,001 | ,552 | 5 | ,000 |
| \*. This is a lower bound of the true significance. | | | | | | | |
| a. Lilliefors Significance Correction | | | | | | | |
| c. Menit\_60 is constant when perlakuan = Kontrol positif. It has been omitted. | | | | | | | |

Keterangan:

df= degree of 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 21.** Uji Homogenitas Varians terhadap Jumlah Geliat Masing-masing Kelompok

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

Hipotesis:

Ho: Data jumlah geliat bervariasi homogen

Ha: Data jumlah geliat tidak bervariasi homogen

Kriteria uji:

Ho ditolok bila Sig.<0,05

Ha diterima bila Sig.>0,05

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test of Homogeneity of Variances** | | | | |
|  | Levene Statistic | df1 | df2 | Sig. |
| Menit\_5 | ,573 | 4 | 20 | ,686 |
| Menit\_10 | 2,970 | 4 | 20 | ,045 |
| Menit\_15 | 3,038 | 4 | 20 | ,041 |
| Menit\_20 | ,442 | 4 | 20 | ,777 |
| Menit\_25 | ,536 | 4 | 20 | ,711 |
| Menit\_30 | ,375 | 4 | 20 | ,824 |
| Menit\_35 | ,877 | 4 | 20 | ,495 |
| Menit\_40 | 1,472 | 4 | 20 | ,248 |
| Menit\_45 | ,749 | 4 | 20 | ,570 |
| Menit\_50 | ,443 | 4 | 20 | ,776 |
| Menit\_55 | 2,879 | 4 | 20 | ,049 |
| Menit\_60 | 5,093 | 4 | 20 | ,005 |

Kesimpulan: Ho diterima artinya data bervariasi homogen

**Lampiran 22.** Analisis Varians Satu Arah Masing-masing Kelompok Perlakuan Terhadap Jumlah Geliat

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | | |
|  | | Sum of Squares | df | Mean Square | F | Sig. |
| Menit\_5 | Between Groups | 34,960 | 4 | 8,740 | 5,827 | ,003 |
| Within Groups | 30,000 | 20 | 1,500 |  |  |
| Total | 64,960 | 24 |  |  |  |
| Menit\_10 | Between Groups | 335,440 | 4 | 83,860 | 25,883 | ,000 |
| Within Groups | 64,800 | 20 | 3,240 |  |  |
| Total | 400,240 | 24 |  |  |  |
| Menit\_15 | Between Groups | 399,440 | 4 | 99,860 | 39,008 | ,000 |
| Within Groups | 51,200 | 20 | 2,560 |  |  |
| Total | 450,640 | 24 |  |  |  |
| Menit\_20 | Between Groups | 476,960 | 4 | 119,240 | 41,403 | ,000 |
| Within Groups | 57,600 | 20 | 2,880 |  |  |
| Total | 534,560 | 24 |  |  |  |
| Menit\_25 | Between Groups | 577,360 | 4 | 144,340 | 84,906 | ,000 |
| Within Groups | 34,000 | 20 | 1,700 |  |  |
| Total | 611,360 | 24 |  |  |  |
| Menit\_30 | Between Groups | 626,160 | 4 | 156,540 | 92,082 | ,000 |
| Within Groups | 34,000 | 20 | 1,700 |  |  |
| Total | 660,160 | 24 |  |  |  |
| Menit\_35 | Between Groups | 663,760 | 4 | 165,940 | 66,376 | ,000 |
| Within Groups | 50,000 | 20 | 2,500 |  |  |
| Total | 713,760 | 24 |  |  |  |
| Menit\_40 | Between Groups | 664,000 | 4 | 166,000 | 72,174 | ,000 |
| Within Groups | 46,000 | 20 | 2,300 |  |  |
| Total | 710,000 | 24 |  |  |  |
| Menit\_45 | Between Groups | 619,360 | 4 | 154,840 | 67,912 | ,000 |
| Within Groups | 45,600 | 20 | 2,280 |  |  |
| Total | 664,960 | 24 |  |  |  |
| Menit\_50 | Between Groups | 558,160 | 4 | 139,540 | 81,128 | ,000 |
| Within Groups | 34,400 | 20 | 1,720 |  |  |
| Total | 592,560 | 24 |  |  |  |
| Menit\_55 | Between Groups | 439,360 | 4 | 109,840 | 119,391 | ,000 |
| Within Groups | 18,400 | 20 | ,920 |  |  |
| Total | 457,760 | 24 |  |  |  |
| Menit\_60 | Between Groups | 293,840 | 4 | 73,460 | 69,302 | ,000 |
| Within Groups | 21,200 | 20 | 1,060 |  |  |
| Total | 315,040 | 24 |  |  |  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Lampiran 23.** Uji Tukey/ Uji Beda Nyata Antar Kelompok Perlakuan  Tujuan: Untuk mengetahui pada kelompok mana terdapat pebedaan jumlah geliat yang bermakna  Hipotesis:  Ho : Data jumlah geliat antar kelompok perlakuan tidak berbeda secara bermakna  Ha : Data jumlah geliat antar kelompok perlakuan berbeda secara bermakna  Kriteria hasil uji:  Ho ditolak bila Sig.<0,05  Ha diterima bila Sig.>0,05  Hasil  **Multiple Comparisons** | | | | | | | |
| Tukey HSD | | | | | | | |
| Dependent Variable | (I) perlakuan | (J) perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| Menit\_5 | Kontrol positif | Kontrol negative | -3,200\* | ,775 | ,004 | -5,52 | -,88 |
| EDR 50 mg/kg BB | -2,200 | ,775 | ,068 | -4,52 | ,12 |
| EDR 100 mg/kg BB | -1,000 | ,775 | ,699 | -3,32 | 1,32 |
| EDR 200 mg/kg BB | -,400 | ,775 | ,985 | -2,72 | 1,92 |
| Kontrol negatif | Kontrol positif | 3,200\* | ,775 | ,004 | ,88 | 5,52 |
| EDR 50 mg/kg BB | 1,000 | ,775 | ,699 | -1,32 | 3,32 |
| EDR 100 mg/kg BB | 2,200 | ,775 | ,068 | -,12 | 4,52 |
| EDR 200 mg/kg BB | 2,800\* | ,775 | ,013 | ,48 | 5,12 |
| EDR 50 mg/kg BB | Kontrol positif | 2,200 | ,775 | ,068 | -,12 | 4,52 |
| Kontrol negative | -1,000 | ,775 | ,699 | -3,32 | 1,32 |
| EDR 100 mg/kg BB | 1,200 | ,775 | ,545 | -1,12 | 3,52 |
| EDR 200 mg/kg BB | 1,800 | ,775 | ,178 | -,52 | 4,12 |
| EDR 100 mg/kg BB | Kontrol positif | 1,000 | ,775 | ,699 | -1,32 | 3,32 |
| Kontrol negative | -2,200 | ,775 | ,068 | -4,52 | ,12 |
| EDR 50 mg/kg BB | -1,200 | ,775 | ,545 | -3,52 | 1,12 |
| EDR 200 mg/kg BB | ,600 | ,775 | ,935 | -1,72 | 2,92 |
| EDR 200 mg/kg BB | Kontrol positif | ,400 | ,775 | ,985 | -1,92 | 2,72 |
| Kontrol negative | -2,800\* | ,775 | ,013 | -5,12 | -,48 |
| EDR 50 mg/kg BB | -1,800 | ,775 | ,178 | -4,12 | ,52 |
| EDR 100 mg/kg BB | -,600 | ,775 | ,935 | -2,92 | 1,72 |
| Menit\_10 | Kontrol positif | Kontrol negative | -10,200\* | 1,138 | ,000 | -13,61 | -6,79 |
| EDR 50 mg/kg BB | -8,800\* | 1,138 | ,000 | -12,21 | -5,39 |
| EDR 100 mg/kg BB | -5,000\* | 1,138 | ,002 | -8,41 | -1,59 |
| EDR 200 mg/kg BB | -3,600\* | 1,138 | ,035 | -7,01 | -,19 |
| Kontrol negatif | Kontrol positif | 10,200\* | 1,138 | ,000 | 6,79 | 13,61 |
| EDR 50 mg/kg BB | 1,400 | 1,138 | ,735 | -2,01 | 4,81 |
| EDR 100 mg/kg BB | 5,200\* | 1,138 | ,002 | 1,79 | 8,61 |
| EDR 200 mg/kg BB | 6,600\* | 1,138 | ,000 | 3,19 | 10,01 |
| EDR 50 mg/kg BB | Kontrol positif | 8,800\* | 1,138 | ,000 | 5,39 | 12,21 |
| Kontrol negative | -1,400 | 1,138 | ,735 | -4,81 | 2,01 |
| EDR 100 mg/kg BB | 3,800\* | 1,138 | ,024 | ,39 | 7,21 |
| EDR 200 mg/kg BB | 5,200\* | 1,138 | ,002 | 1,79 | 8,61 |
| EDR 100 mg/kg BB | Kontrol positif | 5,000\* | 1,138 | ,002 | 1,59 | 8,41 |
| Kontrol negative | -5,200\* | 1,138 | ,002 | -8,61 | -1,79 |
| EDR 50 mg/kg BB | -3,800\* | 1,138 | ,024 | -7,21 | -,39 |
| EDR 200 mg/kg BB | 1,400 | 1,138 | ,735 | -2,01 | 4,81 |
| EDR 200 mg/kg BB | Kontrol positif | 3,600\* | 1,138 | ,035 | ,19 | 7,01 |
| Kontrol negative | -6,600\* | 1,138 | ,000 | -10,01 | -3,19 |
| EDR 50 mg/kg BB | -5,200\* | 1,138 | ,002 | -8,61 | -1,79 |
| EDR 100 mg/kg BB | -1,400 | 1,138 | ,735 | -4,81 | 2,01 |
| Menit\_15 | Kontrol positif | Kontrol negative | -11,600\* | 1,012 | ,000 | -14,63 | -8,57 |
| EDR 50 mg/kg BB | -8,200\* | 1,012 | ,000 | -11,23 | -5,17 |
| EDR 100 mg/kg BB | -5,400\* | 1,012 | ,000 | -8,43 | -2,37 |
| EDR 200 mg/kg BB | -3,200\* | 1,012 | ,035 | -6,23 | -,17 |
| Kontrol negatif | Kontrol positif | 11,600\* | 1,012 | ,000 | 8,57 | 14,63 |
| EDR 50 mg/kg BB | 3,400\* | 1,012 | ,023 | ,37 | 6,43 |
| EDR 100 mg/kg BB | 6,200\* | 1,012 | ,000 | 3,17 | 9,23 |
| EDR 200 mg/kg BB | 8,400\* | 1,012 | ,000 | 5,37 | 11,43 |
| EDR 50 mg/kg BB | Kontrol positif | 8,200\* | 1,012 | ,000 | 5,17 | 11,23 |
| Kontrol negative | -3,400\* | 1,012 | ,023 | -6,43 | -,37 |
| EDR 100 mg/kg BB | 2,800 | 1,012 | ,079 | -,23 | 5,83 |
| EDR 200 mg/kg BB | 5,000\* | 1,012 | ,001 | 1,97 | 8,03 |
| EDR 100 mg/kg BB | Kontrol positif | 5,400\* | 1,012 | ,000 | 2,37 | 8,43 |
| Kontrol negative | -6,200\* | 1,012 | ,000 | -9,23 | -3,17 |
| EDR 50 mg/kg BB | -2,800 | 1,012 | ,079 | -5,83 | ,23 |
| EDR 200 mg/kg BB | 2,200 | 1,012 | ,230 | -,83 | 5,23 |
| EDR 200 mg/kg BB | Kontrol positif | 3,200\* | 1,012 | ,035 | ,17 | 6,23 |
| Kontrol negative | -8,400\* | 1,012 | ,000 | -11,43 | -5,37 |
| EDR 50 mg/kg BB | -5,000\* | 1,012 | ,001 | -8,03 | -1,97 |
| EDR 100 mg/kg BB | -2,200 | 1,012 | ,230 | -5,23 | ,83 |
| Menit\_20 | Kontrol positif | Kontrol negative | -12,600\* | 1,073 | ,000 | -15,81 | -9,39 |
| EDR 50 mg/kg BB | -8,800\* | 1,073 | ,000 | -12,01 | -5,59 |
| EDR 100 mg/kg BB | -5,600\* | 1,073 | ,000 | -8,81 | -2,39 |
| EDR 200 mg/kg BB | -3,200 | 1,073 | ,051 | -6,41 | ,01 |
| Kontrol negatif | Kontrol positif | 12,600\* | 1,073 | ,000 | 9,39 | 15,81 |
| EDR 50 mg/kg BB | 3,800\* | 1,073 | ,016 | ,59 | 7,01 |
| EDR 100 mg/kg BB | 7,000\* | 1,073 | ,000 | 3,79 | 10,21 |
| EDR 200 mg/kg BB | 9,400\* | 1,073 | ,000 | 6,19 | 12,61 |
| EDR 50 mg/kg BB | Kontrol positif | 8,800\* | 1,073 | ,000 | 5,59 | 12,01 |
| Kontrol negative | -3,800\* | 1,073 | ,016 | -7,01 | -,59 |
| EDR 100 mg/kg BB | 3,200 | 1,073 | ,051 | -,01 | 6,41 |
| EDR 200 mg/kg BB | 5,600\* | 1,073 | ,000 | 2,39 | 8,81 |
| EDR 100 mg/kg BB | Kontrol positif | 5,600\* | 1,073 | ,000 | 2,39 | 8,81 |
| Kontrol negative | -7,000\* | 1,073 | ,000 | -10,21 | -3,79 |
| EDR 50 mg/kg BB | -3,200 | 1,073 | ,051 | -6,41 | ,01 |
| EDR 200 mg/kg BB | 2,400 | 1,073 | ,207 | -,81 | 5,61 |
| EDR 200 mg/kg BB | Kontrol positif | 3,200 | 1,073 | ,051 | -,01 | 6,41 |
| Kontrol negative | -9,400\* | 1,073 | ,000 | -12,61 | -6,19 |
| EDR 50 mg/kg BB | -5,600\* | 1,073 | ,000 | -8,81 | -2,39 |
| EDR 100 mg/kg BB | -2,400 | 1,073 | ,207 | -5,61 | ,81 |
| Menit\_25 | Kontrol positif | Kontrol negative | -14,200\* | ,825 | ,000 | -16,67 | -11,73 |
| EDR 50 mg/kg BB | -9,600\* | ,825 | ,000 | -12,07 | -7,13 |
| EDR 100 mg/kg BB | -6,800\* | ,825 | ,000 | -9,27 | -4,33 |
| EDR 200 mg/kg BB | -4,200\* | ,825 | ,000 | -6,67 | -1,73 |
| Kontrol negatif | Kontrol positif | 14,200\* | ,825 | ,000 | 11,73 | 16,67 |
| EDR 50 mg/kg BB | 4,600\* | ,825 | ,000 | 2,13 | 7,07 |
| EDR 100 mg/kg BB | 7,400\* | ,825 | ,000 | 4,93 | 9,87 |
| EDR 200 mg/kg BB | 10,000\* | ,825 | ,000 | 7,53 | 12,47 |
| EDR 50 mg/kg BB | Kontrol positif | 9,600\* | ,825 | ,000 | 7,13 | 12,07 |
| Kontrol negative | -4,600\* | ,825 | ,000 | -7,07 | -2,13 |
| EDR 100 mg/kg BB | 2,800\* | ,825 | ,021 | ,33 | 5,27 |
| EDR 200 mg/kg BB | 5,400\* | ,825 | ,000 | 2,93 | 7,87 |
| EDR 100 mg/kg BB | Kontrol positif | 6,800\* | ,825 | ,000 | 4,33 | 9,27 |
| Kontrol negative | -7,400\* | ,825 | ,000 | -9,87 | -4,93 |
| EDR 50 mg/kg BB | -2,800\* | ,825 | ,021 | -5,27 | -,33 |
| EDR 200 mg/kg BB | 2,600\* | ,825 | ,036 | ,13 | 5,07 |
| EDR 200 mg/kg BB | Kontrol positif | 4,200\* | ,825 | ,000 | 1,73 | 6,67 |
| Kontrol negative | -10,000\* | ,825 | ,000 | -12,47 | -7,53 |
| EDR 50 mg/kg BB | -5,400\* | ,825 | ,000 | -7,87 | -2,93 |
| EDR 100 mg/kg BB | -2,600\* | ,825 | ,036 | -5,07 | -,13 |
| Menit\_30 | Kontrol positif | Kontrol negative | -14,800\* | ,825 | ,000 | -17,27 | -12,33 |
| EDR 50 mg/kg BB | -10,200\* | ,825 | ,000 | -12,67 | -7,73 |
| EDR 100 mg/kg BB | -7,200\* | ,825 | ,000 | -9,67 | -4,73 |
| EDR 200 mg/kg BB | -4,600\* | ,825 | ,000 | -7,07 | -2,13 |
| Kontrol negatif | Kontrol positif | 14,800\* | ,825 | ,000 | 12,33 | 17,27 |
| EDR 50 mg/kg BB | 4,600\* | ,825 | ,000 | 2,13 | 7,07 |
| EDR 100 mg/kg BB | 7,600\* | ,825 | ,000 | 5,13 | 10,07 |
| EDR 200 mg/kg BB | 10,200\* | ,825 | ,000 | 7,73 | 12,67 |
| EDR 50 mg/kg BB | Kontrol positif | 10,200\* | ,825 | ,000 | 7,73 | 12,67 |
| Kontrol negative | -4,600\* | ,825 | ,000 | -7,07 | -2,13 |
| EDR 100 mg/kg BB | 3,000\* | ,825 | ,013 | ,53 | 5,47 |
| EDR 200 mg/kg BB | 5,600\* | ,825 | ,000 | 3,13 | 8,07 |
| EDR 100 mg/kg BB | Kontrol positif | 7,200\* | ,825 | ,000 | 4,73 | 9,67 |
| Kontrol negative | -7,600\* | ,825 | ,000 | -10,07 | -5,13 |
| EDR 50 mg/kg BB | -3,000\* | ,825 | ,013 | -5,47 | -,53 |
| EDR 200 mg/kg BB | 2,600\* | ,825 | ,036 | ,13 | 5,07 |
| EDR 200 mg/kg BB | Kontrol positif | 4,600\* | ,825 | ,000 | 2,13 | 7,07 |
| Kontrol negative | -10,200\* | ,825 | ,000 | -12,67 | -7,73 |
| EDR 50 mg/kg BB | -5,600\* | ,825 | ,000 | -8,07 | -3,13 |
| EDR 100 mg/kg BB | -2,600\* | ,825 | ,036 | -5,07 | -,13 |
| Menit\_35 | Kontrol positif | Kontrol negative | -15,000\* | 1,000 | ,000 | -17,99 | -12,01 |
| EDR 50 mg/kg BB | -9,800\* | 1,000 | ,000 | -12,79 | -6,81 |
| EDR 100 mg/kg BB | -6,400\* | 1,000 | ,000 | -9,39 | -3,41 |
| EDR 200 mg/kg BB | -3,600\* | 1,000 | ,014 | -6,59 | -,61 |
| Kontrol negatif | Kontrol positif | 15,000\* | 1,000 | ,000 | 12,01 | 17,99 |
| EDR 50 mg/kg BB | 5,200\* | 1,000 | ,000 | 2,21 | 8,19 |
| EDR 100 mg/kg BB | 8,600\* | 1,000 | ,000 | 5,61 | 11,59 |
| EDR 200 mg/kg BB | 11,400\* | 1,000 | ,000 | 8,41 | 14,39 |
| EDR 50 mg/kg BB | Kontrol positif | 9,800\* | 1,000 | ,000 | 6,81 | 12,79 |
| Kontrol negative | -5,200\* | 1,000 | ,000 | -8,19 | -2,21 |
| EDR 100 mg/kg BB | 3,400\* | 1,000 | ,021 | ,41 | 6,39 |
| EDR 200 mg/kg BB | 6,200\* | 1,000 | ,000 | 3,21 | 9,19 |
| EDR 100 mg/kg BB | Kontrol positif | 6,400\* | 1,000 | ,000 | 3,41 | 9,39 |
| Kontrol negative | -8,600\* | 1,000 | ,000 | -11,59 | -5,61 |
| EDR 50 mg/kg BB | -3,400\* | 1,000 | ,021 | -6,39 | -,41 |
| EDR 200 mg/kg BB | 2,800 | 1,000 | ,074 | -,19 | 5,79 |
| EDR 200 mg/kg BB | Kontrol positif | 3,600\* | 1,000 | ,014 | ,61 | 6,59 |
| Kontrol negative | -11,400\* | 1,000 | ,000 | -14,39 | -8,41 |
| EDR 50 mg/kg BB | -6,200\* | 1,000 | ,000 | -9,19 | -3,21 |
| EDR 100 mg/kg BB | -2,800 | 1,000 | ,074 | -5,79 | ,19 |
| Menit\_40 | Kontrol positif | Kontrol negative | -14,800\* | ,959 | ,000 | -17,67 | -11,93 |
| EDR 50 mg/kg BB | -9,600\* | ,959 | ,000 | -12,47 | -6,73 |
| EDR 100 mg/kg BB | -5,400\* | ,959 | ,000 | -8,27 | -2,53 |
| EDR 200 mg/kg BB | -3,200\* | ,959 | ,024 | -6,07 | -,33 |
| Kontrol negatif | Kontrol positif | 14,800\* | ,959 | ,000 | 11,93 | 17,67 |
| EDR 50 mg/kg BB | 5,200\* | ,959 | ,000 | 2,33 | 8,07 |
| EDR 100 mg/kg BB | 9,400\* | ,959 | ,000 | 6,53 | 12,27 |
| EDR 200 mg/kg BB | 11,600\* | ,959 | ,000 | 8,73 | 14,47 |
| EDR 50 mg/kg BB | Kontrol positif | 9,600\* | ,959 | ,000 | 6,73 | 12,47 |
| Kontrol negative | -5,200\* | ,959 | ,000 | -8,07 | -2,33 |
| EDR 100 mg/kg BB | 4,200\* | ,959 | ,002 | 1,33 | 7,07 |
| EDR 200 mg/kg BB | 6,400\* | ,959 | ,000 | 3,53 | 9,27 |
| EDR 100 mg/kg BB | Kontrol positif | 5,400\* | ,959 | ,000 | 2,53 | 8,27 |
| Kontrol negative | -9,400\* | ,959 | ,000 | -12,27 | -6,53 |
| EDR 50 mg/kg BB | -4,200\* | ,959 | ,002 | -7,07 | -1,33 |
| EDR 200 mg/kg BB | 2,200 | ,959 | ,188 | -,67 | 5,07 |
| EDR 200 mg/kg BB | Kontrol positif | 3,200\* | ,959 | ,024 | ,33 | 6,07 |
| Kontrol negative | -11,600\* | ,959 | ,000 | -14,47 | -8,73 |
| EDR 50 mg/kg BB | -6,400\* | ,959 | ,000 | -9,27 | -3,53 |
| EDR 100 mg/kg BB | -2,200 | ,959 | ,188 | -5,07 | ,67 |
| Menit\_45 | Kontrol positif | Kontrol negative | -13,800\* | ,955 | ,000 | -16,66 | -10,94 |
| EDR 50 mg/kg BB | -8,400\* | ,955 | ,000 | -11,26 | -5,54 |
| EDR 100 mg/kg BB | -4,400\* | ,955 | ,001 | -7,26 | -1,54 |
| EDR 200 mg/kg BB | -1,600 | ,955 | ,470 | -4,46 | 1,26 |
| Kontrol negatif | Kontrol positif | 13,800\* | ,955 | ,000 | 10,94 | 16,66 |
| EDR 50 mg/kg BB | 5,400\* | ,955 | ,000 | 2,54 | 8,26 |
| EDR 100 mg/kg BB | 9,400\* | ,955 | ,000 | 6,54 | 12,26 |
| EDR 200 mg/kg BB | 12,200\* | ,955 | ,000 | 9,34 | 15,06 |
| EDR 50 mg/kg BB | Kontrol positif | 8,400\* | ,955 | ,000 | 5,54 | 11,26 |
| Kontrol negative | -5,400\* | ,955 | ,000 | -8,26 | -2,54 |
| EDR 100 mg/kg BB | 4,000\* | ,955 | ,004 | 1,14 | 6,86 |
| EDR 200 mg/kg BB | 6,800\* | ,955 | ,000 | 3,94 | 9,66 |
| EDR 100 mg/kg BB | Kontrol positif | 4,400\* | ,955 | ,001 | 1,54 | 7,26 |
| Kontrol negative | -9,400\* | ,955 | ,000 | -12,26 | -6,54 |
| EDR 50 mg/kg BB | -4,000\* | ,955 | ,004 | -6,86 | -1,14 |
| EDR 200 mg/kg BB | 2,800 | ,955 | ,057 | -,06 | 5,66 |
| EDR 200 mg/kg BB | Kontrol positif | 1,600 | ,955 | ,470 | -1,26 | 4,46 |
| Kontrol negative | -12,200\* | ,955 | ,000 | -15,06 | -9,34 |
| EDR 50 mg/kg BB | -6,800\* | ,955 | ,000 | -9,66 | -3,94 |
| EDR 100 mg/kg BB | -2,800 | ,955 | ,057 | -5,66 | ,06 |
| Menit\_50 | Kontrol positif | Kontrol negative | -13,000\* | ,829 | ,000 | -15,48 | -10,52 |
| EDR 50 mg/kg BB | -7,800\* | ,829 | ,000 | -10,28 | -5,32 |
| EDR 100 mg/kg BB | -4,200\* | ,829 | ,001 | -6,68 | -1,72 |
| EDR 200 mg/kg BB | -1,200 | ,829 | ,606 | -3,68 | 1,28 |
| Kontrol negatif | Kontrol positif | 13,000\* | ,829 | ,000 | 10,52 | 15,48 |
| EDR 50 mg/kg BB | 5,200\* | ,829 | ,000 | 2,72 | 7,68 |
| EDR 100 mg/kg BB | 8,800\* | ,829 | ,000 | 6,32 | 11,28 |
| EDR 200 mg/kg BB | 11,800\* | ,829 | ,000 | 9,32 | 14,28 |
| EDR 50 mg/kg BB | Kontrol positif | 7,800\* | ,829 | ,000 | 5,32 | 10,28 |
| Kontrol negative | -5,200\* | ,829 | ,000 | -7,68 | -2,72 |
| EDR 100 mg/kg BB | 3,600\* | ,829 | ,003 | 1,12 | 6,08 |
| EDR 200 mg/kg BB | 6,600\* | ,829 | ,000 | 4,12 | 9,08 |
| EDR 100 mg/kg BB | Kontrol positif | 4,200\* | ,829 | ,001 | 1,72 | 6,68 |
| Kontrol negative | -8,800\* | ,829 | ,000 | -11,28 | -6,32 |
| EDR 50 mg/kg BB | -3,600\* | ,829 | ,003 | -6,08 | -1,12 |
| EDR 200 mg/kg BB | 3,000\* | ,829 | ,013 | ,52 | 5,48 |
| EDR 200 mg/kg BB | Kontrol positif | 1,200 | ,829 | ,606 | -1,28 | 3,68 |
| Kontrol negative | -11,800\* | ,829 | ,000 | -14,28 | -9,32 |
| EDR 50 mg/kg BB | -6,600\* | ,829 | ,000 | -9,08 | -4,12 |
| EDR 100 mg/kg BB | -3,000\* | ,829 | ,013 | -5,48 | -,52 |
| Menit\_55 | Kontrol positif | Kontrol negative | -11,400\* | ,607 | ,000 | -13,22 | -9,58 |
| EDR 50 mg/kg BB | -6,200\* | ,607 | ,000 | -8,02 | -4,38 |
| EDR 100 mg/kg BB | -3,000\* | ,607 | ,001 | -4,82 | -1,18 |
| EDR 200 mg/kg BB | -,600 | ,607 | ,857 | -2,42 | 1,22 |
| Kontrol negatif | Kontrol positif | 11,400\* | ,607 | ,000 | 9,58 | 13,22 |
| EDR 50 mg/kg BB | 5,200\* | ,607 | ,000 | 3,38 | 7,02 |
| EDR 100 mg/kg BB | 8,400\* | ,607 | ,000 | 6,58 | 10,22 |
| EDR 200 mg/kg BB | 10,800\* | ,607 | ,000 | 8,98 | 12,62 |
| EDR 50 mg/kg BB | Kontrol positif | 6,200\* | ,607 | ,000 | 4,38 | 8,02 |
| Kontrol negative | -5,200\* | ,607 | ,000 | -7,02 | -3,38 |
| EDR 100 mg/kg BB | 3,200\* | ,607 | ,000 | 1,38 | 5,02 |
| EDR 200 mg/kg BB | 5,600\* | ,607 | ,000 | 3,78 | 7,42 |
| EDR 100 mg/kg BB | Kontrol positif | 3,000\* | ,607 | ,001 | 1,18 | 4,82 |
| Kontrol negative | -8,400\* | ,607 | ,000 | -10,22 | -6,58 |
| EDR 50 mg/kg BB | -3,200\* | ,607 | ,000 | -5,02 | -1,38 |
| EDR 200 mg/kg BB | 2,400\* | ,607 | ,006 | ,58 | 4,22 |
| EDR 200 mg/kg BB | Kontrol positif | ,600 | ,607 | ,857 | -1,22 | 2,42 |
| Kontrol negative | -10,800\* | ,607 | ,000 | -12,62 | -8,98 |
| EDR 50 mg/kg BB | -5,600\* | ,607 | ,000 | -7,42 | -3,78 |
| EDR 100 mg/kg BB | -2,400\* | ,607 | ,006 | -4,22 | -,58 |
| Menit\_60 | Kontrol positif | Kontrol negative | -9,200\* | ,651 | ,000 | -11,15 | -7,25 |
| EDR 50 mg/kg BB | -4,800\* | ,651 | ,000 | -6,75 | -2,85 |
| EDR 100 mg/kg BB | -2,200\* | ,651 | ,022 | -4,15 | -,25 |
| EDR 200 mg/kg BB | -,200 | ,651 | ,998 | -2,15 | 1,75 |
| Kontrol negatif | Kontrol positif | 9,200\* | ,651 | ,000 | 7,25 | 11,15 |
| EDR 50 mg/kg BB | 4,400\* | ,651 | ,000 | 2,45 | 6,35 |
| EDR 100 mg/kg BB | 7,000\* | ,651 | ,000 | 5,05 | 8,95 |
| EDR 200 mg/kg BB | 9,000\* | ,651 | ,000 | 7,05 | 10,95 |
| EDR 50 mg/kg BB | Kontrol positif | 4,800\* | ,651 | ,000 | 2,85 | 6,75 |
| Kontrol negative | -4,400\* | ,651 | ,000 | -6,35 | -2,45 |
| EDR 100 mg/kg BB | 2,600\* | ,651 | ,006 | ,65 | 4,55 |
| EDR 200 mg/kg BB | 4,600\* | ,651 | ,000 | 2,65 | 6,55 |
| EDR 100 mg/kg BB | Kontrol positif | 2,200\* | ,651 | ,022 | ,25 | 4,15 |
| Kontrol negative | -7,000\* | ,651 | ,000 | -8,95 | -5,05 |
| EDR 50 mg/kg BB | -2,600\* | ,651 | ,006 | -4,55 | -,65 |
| EDR 200 mg/kg BB | 2,000\* | ,651 | ,042 | ,05 | 3,95 |
| EDR 200 mg/kg BB | Kontrol positif | ,200 | ,651 | ,998 | -1,75 | 2,15 |
| Kontrol negative | -9,000\* | ,651 | ,000 | -10,95 | -7,05 |
| EDR 50 mg/kg BB | -4,600\* | ,651 | ,000 | -6,55 | -2,65 |
| EDR 100 mg/kg BB | -2,000\* | ,651 | ,042 | -3,95 | -,05 |
| \*. The mean difference is significant at the 0.05 level. | | | | | | | |

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| **Menit\_5** | | | |
| Tukey HSD | | | |
| perlakuan | N | Subset for alpha = 0.05 | |
| 1 | 2 |
| Kontrol positif | 5 | 15,60 |  |
| EDR 200 mg/kg BB | 5 | 16,00 |  |
| EDR 100 mg/kg BB | 5 | 16,60 | 16,60 |
| EDR 50 mg/kg BB | 5 | 17,80 | 17,80 |
| Kontrol negatif | 5 |  | 18,80 |
| Sig. |  | ,068 | ,068 |
| Means for groups in homogeneous subsets are displayed. | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | |

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| **Menit\_10** | | | | |
| Tukey HSD | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | |
| 1 | 2 | 3 |
| Kontrol positif | 5 | 25,00 |  |  |
| EDR 200 mg/kg BB | 5 |  | 28,60 |  |
| EDR 100 mg/kg BB | 5 |  | 30,00 |  |
| EDR 50 mg/kg BB | 5 |  |  | 33,80 |
| Kontrol negatif | 5 |  |  | 35,20 |
| Sig. |  | 1,000 | ,735 | ,735 |
| Means for groups in homogeneous subsets are displayed. | | | | |
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| **Menit\_15** | | | | | |
| Tukey HSD | | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | | |
| 1 | 2 | 3 | 4 |
| Kontrol positif | 5 | 18,20 |  |  |  |
| EDR 200 mg/kg BB | 5 |  | 21,40 |  |  |
| EDR 100 mg/kg BB | 5 |  | 23,60 | 23,60 |  |
| EDR 50 mg/kg BB | 5 |  |  | 26,40 |  |
| Kontrol negatif | 5 |  |  |  | 29,80 |
| Sig. |  | 1,000 | ,230 | ,079 | 1,000 |
| Means for groups in homogeneous subsets are displayed. | | | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | | | |

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| **Menit\_20** | | | | | |
| Tukey HSD | | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | | |
| 1 | 2 | 3 | 4 |
| Kontrol positif | 5 | 14,20 |  |  |  |
| EDR 200 mg/kg BB | 5 | 17,40 | 17,40 |  |  |
| EDR 100 mg/kg BB | 5 |  | 19,80 | 19,80 |  |
| EDR 50 mg/kg BB | 5 |  |  | 23,00 |  |
| Kontrol negatif | 5 |  |  |  | 26,80 |
| Sig. |  | ,051 | ,207 | ,051 | 1,000 |
| Means for groups in homogeneous subsets are displayed. | | | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | | | |

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| **Menit\_25** | | | | | | |
| Tukey HSD | | | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | | | |
| 1 | 2 | 3 | 4 | 5 |
| Kontrol positif | 5 | 10,20 |  |  |  |  |
| EDR 200 mg/kg BB | 5 |  | 14,40 |  |  |  |
| EDR 100 mg/kg BB | 5 |  |  | 17,00 |  |  |
| EDR 50 mg/kg BB | 5 |  |  |  | 19,80 |  |
| Kontrol negatif | 5 |  |  |  |  | 24,40 |
| 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 = 5,000. | | | | | | |

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| **Menit\_30** | | | | | | |
| Tukey HSD | | | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | | | |
| 1 | 2 | 3 | 4 | 5 |
| Kontrol positif | 5 | 7,20 |  |  |  |  |
| EDR 200 mg/kg BB | 5 |  | 11,80 |  |  |  |
| EDR 100 mg/kg BB | 5 |  |  | 14,40 |  |  |
| EDR 50 mg/kg BB | 5 |  |  |  | 17,40 |  |
| Kontrol negatif | 5 |  |  |  |  | 22,00 |
| 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 = 5,000. | | | | | | |

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| **Menit\_35** | | | | | |
| Tukey HSD | | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | | |
| 1 | 2 | 3 | 4 |
| Kontrol positif | 5 | 5,40 |  |  |  |
| EDR 200 mg/kg BB | 5 |  | 9,00 |  |  |
| EDR 100 mg/kg BB | 5 |  | 11,80 |  |  |
| EDR 50 mg/kg BB | 5 |  |  | 15,20 |  |
| Kontrol negatif | 5 |  |  |  | 20,40 |
| Sig. |  | 1,000 | ,074 | 1,000 | 1,000 |
| Means for groups in homogeneous subsets are displayed. | | | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | | | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **Menit\_40** | | | | | | | Tukey HSD | | | | | | | perlakuan | N | Subset for alpha = 0.05 | | | | | 1 | 2 | 3 | 4 | | Kontrol positif | 5 | 3,60 |  |  |  | | EDR 200 mg/kg BB | 5 |  | 6,80 |  |  | | EDR 100 mg/kg BB | 5 |  | 9,00 |  |  | | EDR 50 mg/kg BB | 5 |  |  | 13,20 |  | | Kontrol negatif | 5 |  |  |  | 18,40 | | Sig. |  | 1,000 | ,188 | 1,000 | 1,000 | | Means for groups in homogeneous subsets are displayed. | | | | | | | a. Uses Harmonic Mean Sample Size = 5,000. | | | | | | | | | | | |

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| **Menit\_45** | | | | | |
| Tukey HSD | | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | | |
| 1 | 2 | 3 | 4 |
| Kontrol positif | 5 | 2,40 |  |  |  |
| EDR 200 mg/kg BB | 5 | 4,00 | 4,00 |  |  |
| EDR 100 mg/kg BB | 5 |  | 6,80 |  |  |
| EDR 50 mg/kg BB | 5 |  |  | 10,80 |  |
| Kontrol negatif | 5 |  |  |  | 16,20 |
| Sig. |  | ,470 | ,057 | 1,000 | 1,000 |
| Means for groups in homogeneous subsets are displayed. | | | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | | | |

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| **Menit\_50** | | | | | |
| Tukey HSD | | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | | |
| 1 | 2 | 3 | 4 |
| Kontrol positif | 5 | 1,00 |  |  |  |
| EDR 200 mg/kg BB | 5 | 2,20 |  |  |  |
| EDR 100 mg/kg BB | 5 |  | 5,20 |  |  |
| EDR 50 mg/kg BB | 5 |  |  | 8,80 |  |
| Kontrol negatif | 5 |  |  |  | 14,00 |
| Sig. |  | ,606 | 1,000 | 1,000 | 1,000 |
| Means for groups in homogeneous subsets are displayed. | | | | | |
| a. Uses Harmonic Mean Sample Size = 5,000. | | | | | |

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| **Menit\_55** | | | | | |
| Tukey HSD | | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | | |
| 1 | 2 | 3 | 4 |
| Kontrol positif | 5 | ,40 |  |  |  |
| EDR 200 mg/kg BB | 5 | 1,00 |  |  |  |
| EDR 100 mg/kg BB | 5 |  | 3,40 |  |  |
| EDR 50 mg/kg BB | 5 |  |  | 6,60 |  |
| Kontrol negatif | 5 |  |  |  | 11,80 |
| Sig. |  | ,857 | 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 HSD | | | | | | | perlakuan | N | Subset for alpha = 0.05 | | | | | 1 | 2 | 3 | 4 | | Kontrol positif | 5 | ,00 |  |  |  | | EDR 200 mg/kg BB | 5 | ,20 |  |  |  | | EDR 100 mg/kg BB | 5 |  | 2,20 |  |  | | EDR 50 mg/kg BB | 5 |  |  | 4,80 |  | | Kontrol negatif | 5 |  |  |  | 9,20 | | 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 Metampiron 1%) dan suspensi EDR 50,100 dan 200mg/kg BB menunjukkan efek analgetik yang berbeda bermakna terhadap kelompok kontrol negatif  2. Kontrol positif (suspensi Metampiron 1%) menunjukaan efek analgetik yang berbeda bermakna terhadap kelompok kontrol negatif (CMC 0,5%) | | | | | |
|  | | | | | |

**Lampiran 24.** Perhitungan Persen Daya Analgetik

1. Kontrol positif (metampiron 1%)

Menit ke 5

= 100 82,98

= 17,02%

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

diperoleh:

Menit ke 10 = 28,98%

Menit ke 15 = 38,93%

Menit ke 20 = 47,02%

Menit ke 25 = 58,2%

Menit ke 30 = 67,27%

Menit ke 35 = 73,53%

Menit ke 40 = 80,43%

Menit ke 45 =85,19%

Menit ke 50 = 92,86%

Menit ke 55 = 96,61%

Menit ke 60 = 100%

**Lampiran 24.** (Lanjutan)

2. Ekstrak Etanol Daun Rambutan (EEDR) 50mg/kg BB

Menit ke 5

= 100 94,68

= 5,32%

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

diperoleh:

Menit ke 10 = 3,98%

Menit ke 15 = 11,41%

Menit ke 20 = 14,18%

Menit ke 25 = 18,85%

Menit ke 30 = 20,91%

Menit ke 35 = 25,5%

Menit ke 40 = 28,26%

Menit ke 45 = 34,15%

Menit ke 50 = 37,14%

Menit ke 55 = 44,07%

Menit ke 60 = 47,83%

3. Ekstrak Etanol Daun Rambutan (EEDR) 100 mg/kg BB

Menit ke 5

= 100 88,30 = 11,7%

**Lampiran 24.** (Lanjutan)

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

diperoleh:

Menit ke 10 = 14,77%

Menit ke 15 = 20,81%

Menit ke 20 = 26,12%

Menit ke 25 = 30,33%

Menit ke 30 = 35,55%

Menit ke 35 = 42,16%

Menit ke 40 = 51,09%

Menit ke 45 = 58,04%

Menit ke 50 = 62,86%

Menit ke 55 = 71,19%

Menit ke 60 = 76,09%

4. Ekstrak Etanol Daun Rambutan (EEDR) 200 mg/kg BB

Menit ke 5

= 100 85,11

= 14,89%

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

diperoleh:

Menit ke 10 = 18,75%

**Lampiran 24.** (Lanjutan)

Menit ke 15 = 28,19%

Menit ke 20 = 35,07%

Menit ke 25 = 40,98%

Menit ke 30 = 46,36%

Menit ke 35 = 55,88%

Menit ke 40 = 63,04%

Menit ke 45 =75,31%

Menit ke 50 = 84,29%

Menit ke 55 = 91,53%

Menit ke 60 = 97,83%