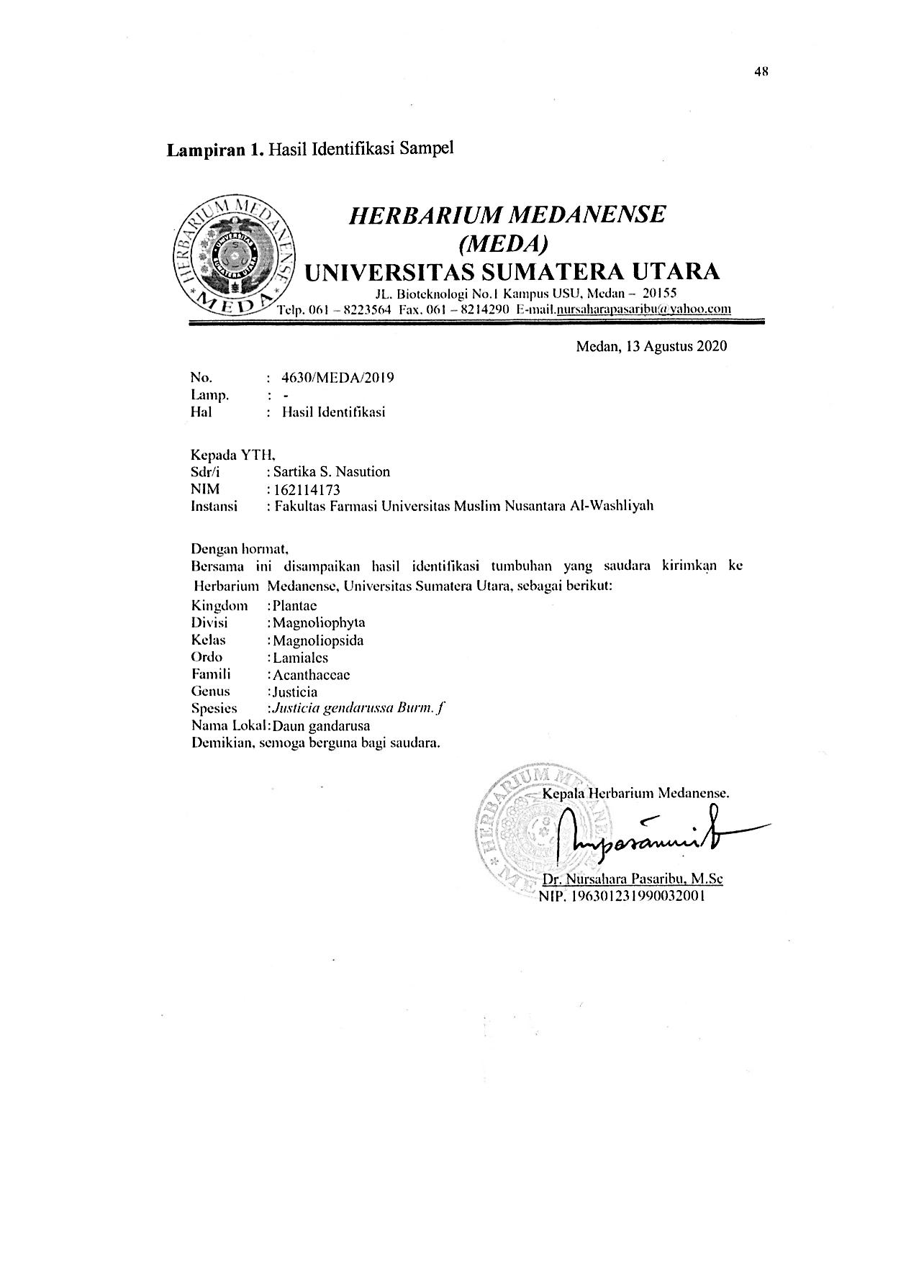
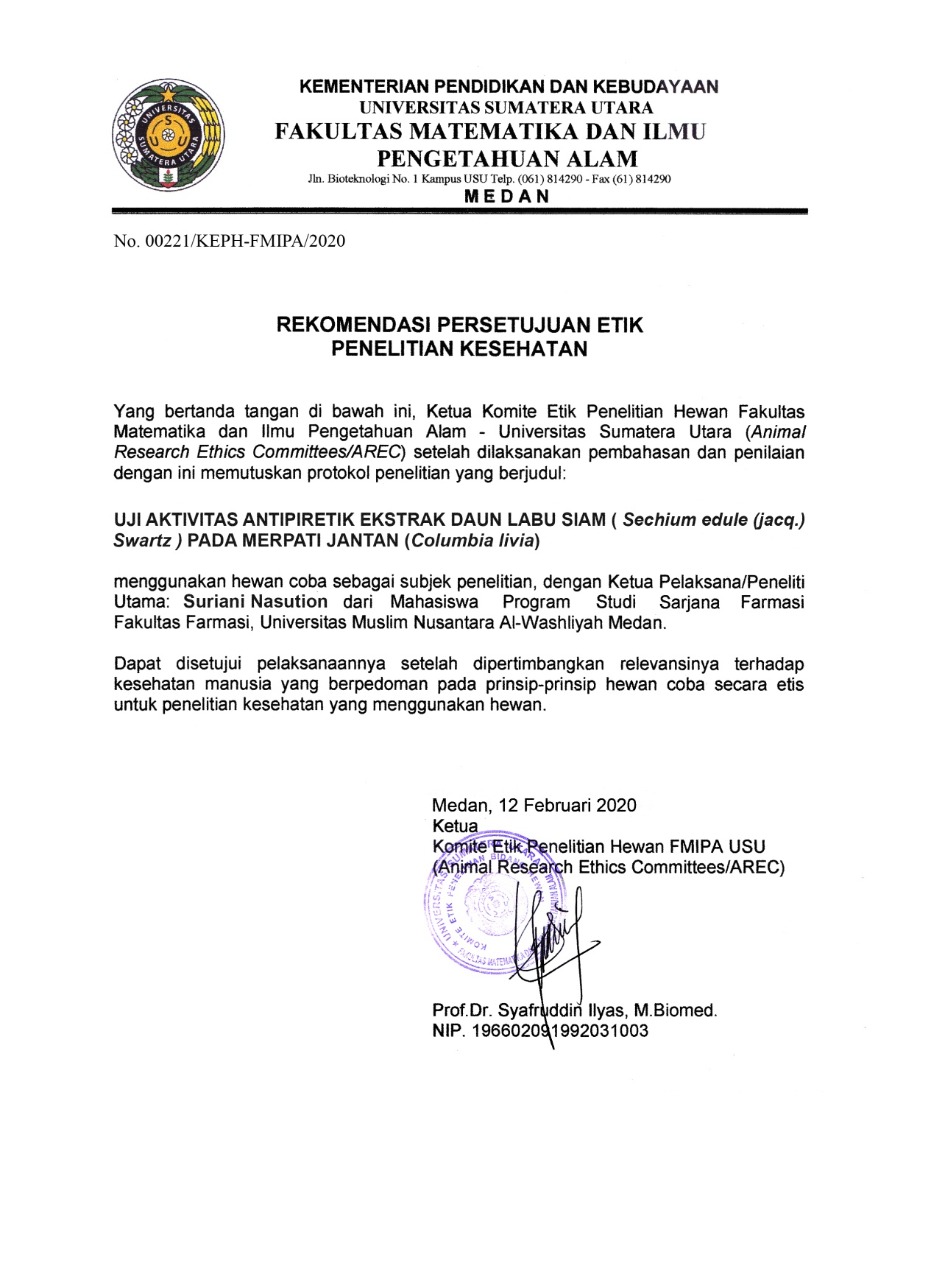
**Lampiran 1.** Identifikasi tumbuhan



**Lampiran 2.** Ethical Clearance

****

**Lampiran 3. Tanaman daun gandarusa dan pemeriksaaan makroskopik simplisia daun gandarusa (*Justicia gendarussa Burm. f.*)**



Tanaman daun gandarusa

****

Maksroskopik Simplisis daun gandarusa

****Simplisia kering daun gandarusa

**Lampiran 4. Serbuk Simplisia Daun gandarusa, Hasil maserasi dan Ekstrak Etanol daun gandarusa**

****

Serbuk daun gandarusa

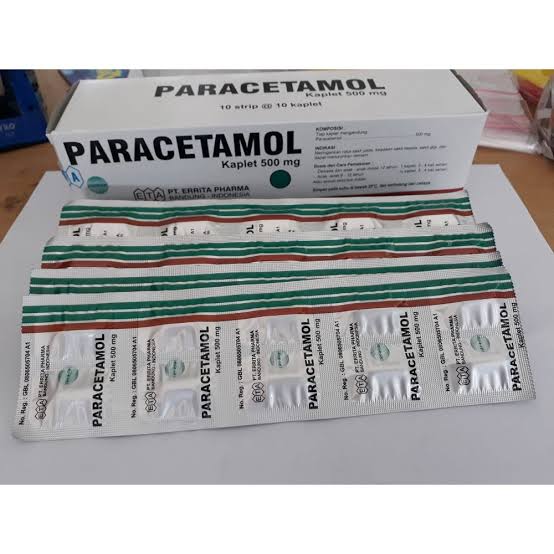


Ekstrak etanol daun gandarusa Maserat daun gandarusa

Vaksin DPT HB Hib (Penginduksi)



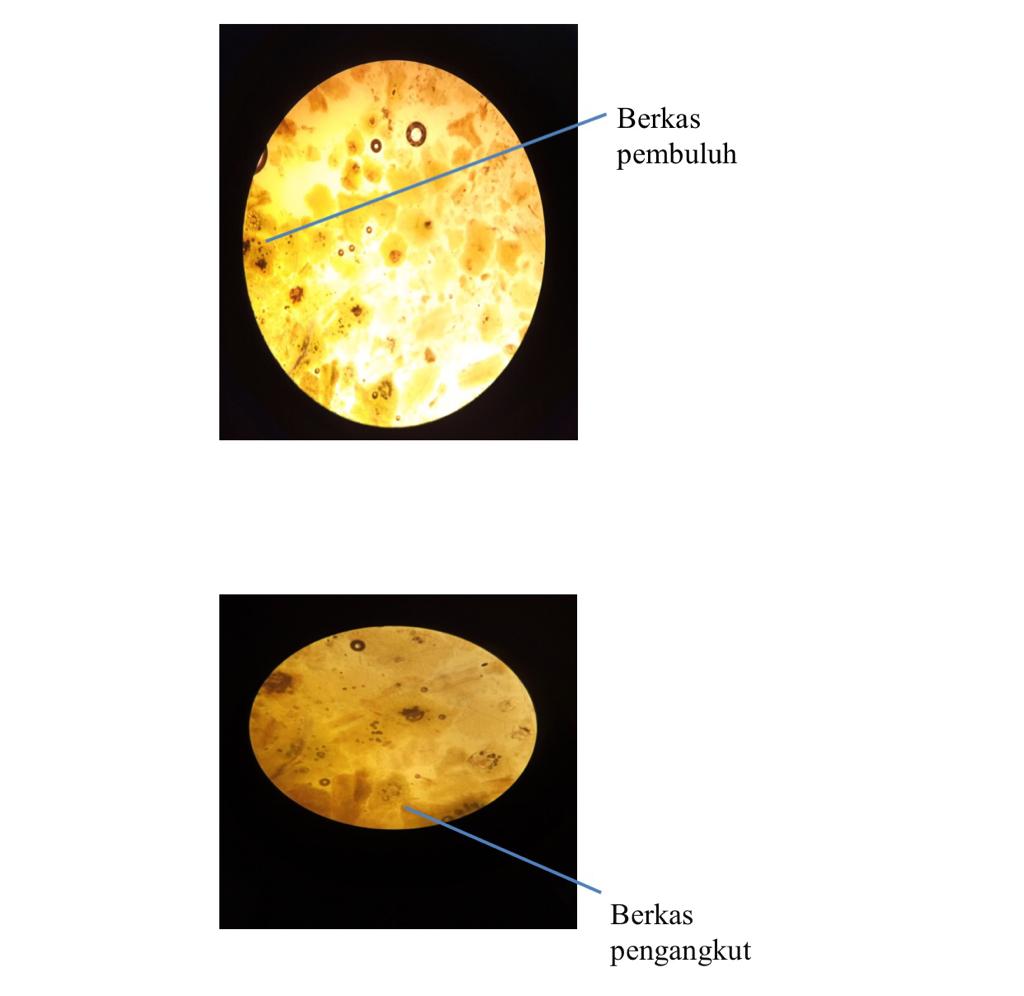
Parasetamol (Kontrol Positif)

****

Termometer digital



**Lampiran 5.** Hasil pemeriksaan mikroskop daun gandarusa



Mikroskopik daun gandarusa

Keterangan:

1. Berkas pembuluh bentuk spiral
2. Berkas pengangkut

**Lampiran 6.** Penetapan Karakterisasi Simplisia

1. Perhitungan penetapan kadar air simplisia

|  |  |  |
| --- | --- | --- |
| Berat sampel | Volume awal | Volume akhir |
| 5 g | 1,2 ml | 1,6 ml |
| 5 g | 1.3 ml | 1,7 ml |
| 5 g | 1,3 ml | 1,6 ml |

% Kadar air simplisia = x 100%

1. Berat simplisia I = 5 g

% Kadar air = x 100% = 8%

1. Berat simplisia II = 5 g

% Kadar air = x 100% = 8%

1. Berat simplisia III = 5 g

% Kadar air =  *x* 100% = 6%

% Kadar air rata-rata = = 7,3%

**Lampiran 6.** (Lanjutan)

1. Penetapan kadar sari larut dalam air

|  |  |  |
| --- | --- | --- |
| Berat sampel | Berat cawan kosong | Berat cawan berisi |
| 5 g | 32,7 g | 32,9 g |
| 5 g | 35,9 g | 36,1 g |
| 5 g | 26,4 g | 26,7 g |

% Kadar sari larut dalam air = berat cawan isi- berat cawan kosong x 100 X 100%

Berat sampel (g) 20

1. Berat simplisia I = 5 g

% Kadar sari larut dalam air = 58,83 g – 58,61g x 100 x 100% = 22 %

5 20

1. Berat simplisia I I = 5 g

% Kadar sari larut dalam air = 57,26 g – 57,03 g x 100 x 100% = 23 %

5 20

1. Berat simplisia I II = 5 g

% Kadar sari larut dalam air = 57,26 g – 57,03 g x 100 x 100% = 23 %

5 20

% Kadar sari rata-rata = = 22,666 %

**Lampiran 6.** (Lanjutan)

1. Penetapan kadar sari larut dalam etanol

|  |  |  |
| --- | --- | --- |
| Berat sampel | Berat cawan kosong | Berat cawan berisi |
| 5 g | 35,9 g | 36,2 g |
| 5 g | 32,2 g | 32,9 g |
| 5 g | 36,9 g | 37,0 g |

% Kadar sari larut dalam etanol = x 100%

1. Berat simplisia I = 5 g

% Kadar sari larut etanol = x 100% = 30 %

1. Berat simplisia I I = 5 g

% Kadar sari larut etanol = x 100% = 20%

1. Berat simplisia I II = 5 g

% Kadar sari larut etanol = x 100% = 10 %

% Kadar sari larut etanol rata-rata = = 20 %

**Lampiran 6.** (Lanjutan)

1. Penetapan kadar abu total

|  |  |  |
| --- | --- | --- |
| Berat sampel | Berat cawan kosong | Berat cawan berisi |
| 2g | 58,23 g | 58,29 g |
| 2g | 57,30 g | 57,34 g |
| 2g | 59,50 g | 59,54 g |

% Kadar abu total = x 100%

1. Berat simplisia I = 2 g

% Kadar abu total = x 100% = 3 %

1. Berat simplisia I I = 2 g

% Kadar abu total = x 100% = 2 %

1. Berat simplisia I II = 2 g

% Kadar abu total = x 100% = 2 %

% Kadar abu total rata-rata = = 2,3 %

**Lampiran 6.** (Lanjutan)

1. Penetapan kadar abu tidak larut dalam asam

|  |  |  |
| --- | --- | --- |
| Berat sampel | Berat cawan kosong | Berat cawan berisi |
| 2 g | 63,13 g | 63,18 g |
| 2 g | 65,08 g | 65,12 g |
| 2 g | 60,26 g | 60,30 g |

% Kadar abu tidak larut asam = x 100%

1. Berat simplisia I = 2 g

% Kadar abu tidak larut asam = x 100% = 2,5 %

1. Berat simplisia I I = 2 g

% Kadar abu tidak larut asam = x 100% = 2 %

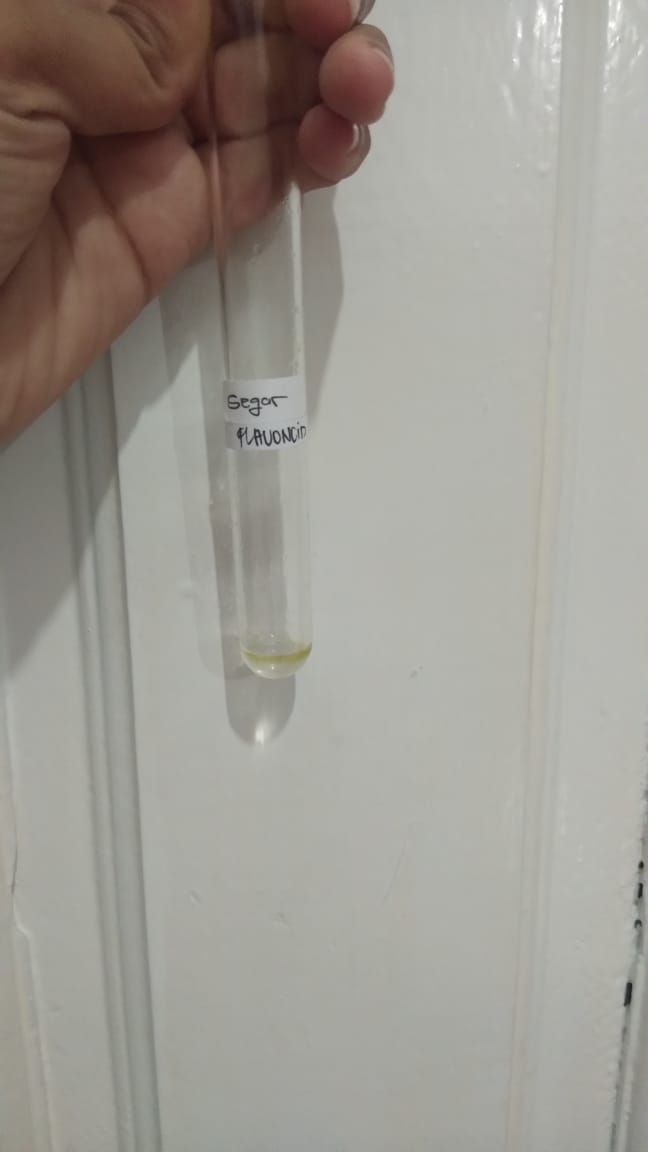
1. Berat simplisia I II = 2 g

% Kadar abu tidak larut asam = x 100% = 2 %

% Kadar abu tidak larut asam rata-rata = = 2,16 %

**Lampiran 7.** Hasil Skrining Fitokimia daun segar, serbuk simplisia, ekstrak etanol daun gandarusa

1. Skrining fitokimia daun segar

****

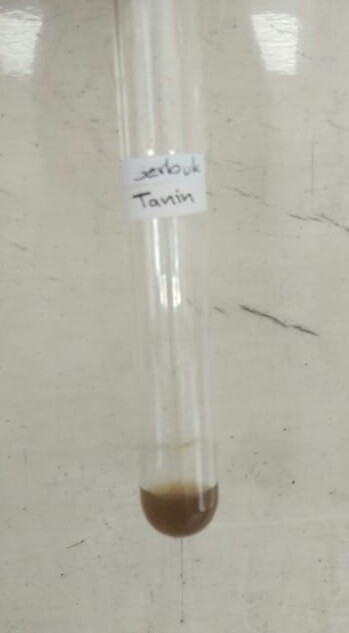
Uji tannin Uji flavonoid Uji alkaloid

****

Uji saponin Uji steroid/triterpenoid

**Lampiran 7.** (lanjutan)

2.Skrining fitokimia serbuk simplisia



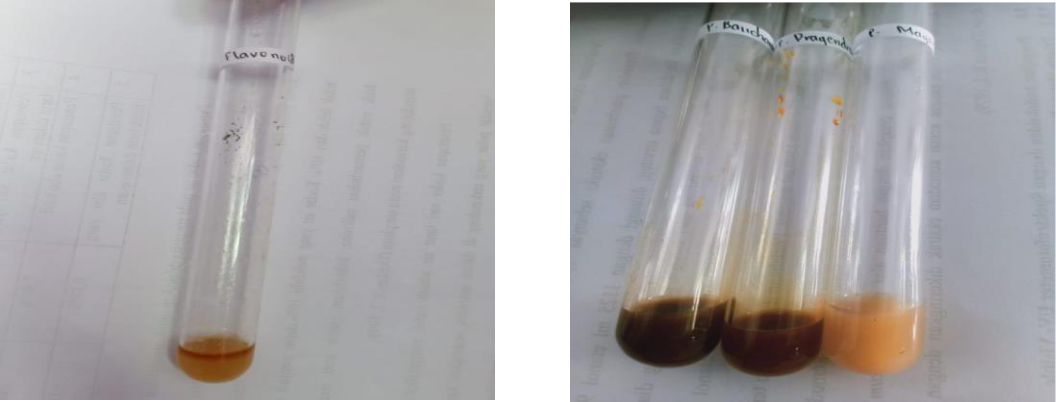
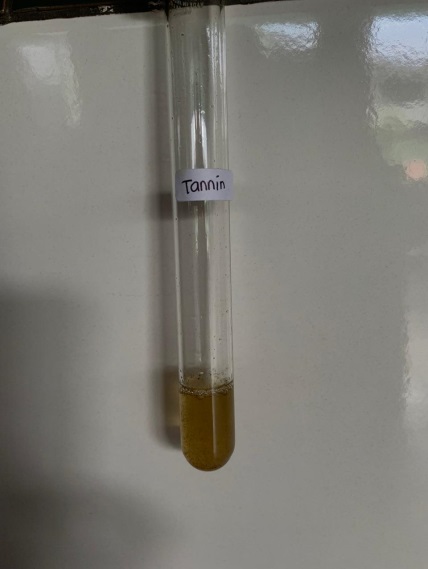
Uji saponin Uji tannin Uji Flavonoid



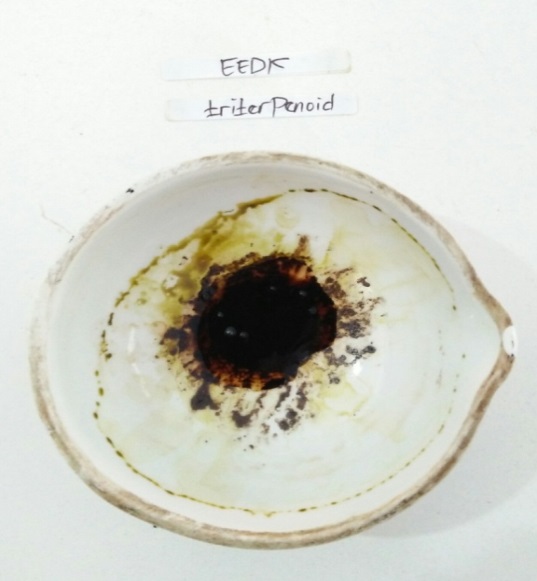
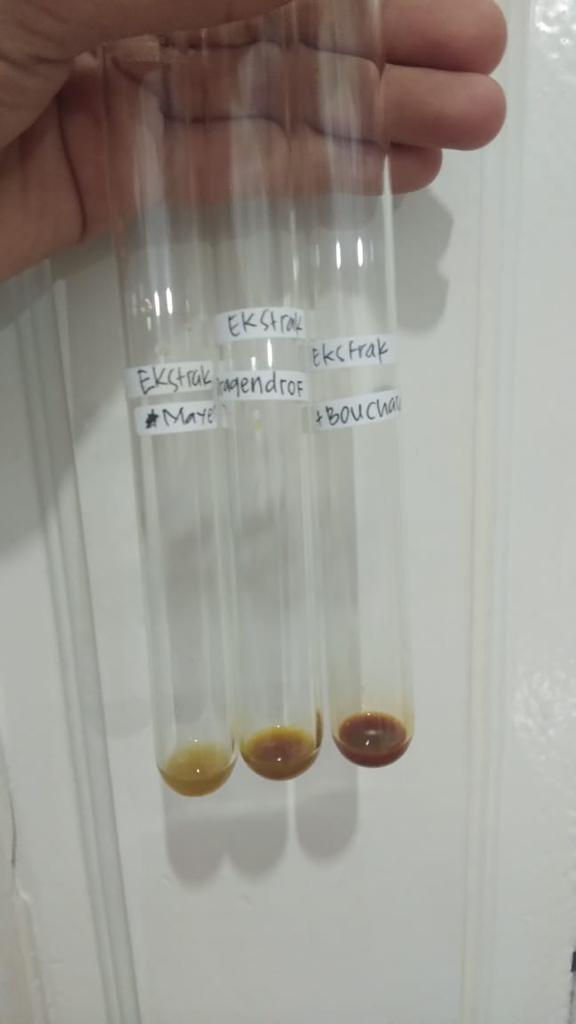
Uji alkaloid Uji steroid/triterpenoid

**Lampiran 7.** (lanjutan)

3.Skrining fitokimia ekstrak simplisia

****

Uji saponin Uji tannin Uji flavonoid

****

Uji alkaloid Uji steroid/ triterpenoid

**Lampiran 8.** Bagan alir penelitian, bagan pembutan simplisia, bagan alir pembuatan ekstrak dan bagan alir uji efektivitas antipiretik

1. Bagan alir penelitian

Daun Gandarusa Segar

Daun Gandarusa

Simplisia kering

Serbuk simplisia

Karakterisasi Sampel

Dibuat Ekstrak

perkolat

Ekstrak kental

* Penetapan kadar air
* Penetapan kadar abu
* Penetapan kadar abu tidak larut asam
* Penetapan kadar sari larut dalam air
* Penetapan kadar sari larut dalam etanol

Skrining fitokimia

Suspensi Daun Gandarusa

* Alkaloid
* Flavonoid
* Steroid/Triterpenoid
* Saponin
* Glikosida
* Tannin

Uji efektivitas antipiretik pada tikus putih jantan

Dibersihkan dari pengotor

Dicuci bersih dan ditiriskan

Diangin-anginkan

Ditimbang

Dikeringkan pada suhu 40ºC

Ditimbang

Dihaluskan

Ditimbang

DiMaserasi dengan etanol 96%

Diuapkan dengan rotary evaporator

**Lampiran 8.**  (lanjutan)

2.Bagan alir pembuatan simplisia

Daun Gandarusa

Disortasi Basah

Dicuci dengan air mengalir

Ditiriskan

Diangin-anginkan

Dirajang

Ditimbang

Berat Daun Gandarusa setelah dirajang

Dikeringkan di dalam lemari pengering pada suhu ± 40ºC

Disortasi kering

Ditimbang

Berat simplisia 7.000 kg

Dihaluskan menggunakan blender

Ditimbang

Berat serbuk simplisia 1.200 kg

Dimasukkan kedalam wadah tertutup rapat

Serbuk simplisia

**Lampiran 8.** (lanjutan)

3.Bagan alir pembuatan ekstrak

500 g Serbuk Simplisia Daun Gandarusa

Diekstraksi dengan cara dimaserasi menggunakan pelarut etanol

Ekstrak kental

Karakterisasi simplisia

1.Makroskopik

2.Mikroskopik

3.PK Air

4.PK sari larut dalam etanol

5.PK sari larut dalam air

6.PK abu total

7.PK tidak larut dalam asam

4.PK

Pengujian efektivitas antipiretik terhadap tikus putih jantan

Skrining fitokimia

1. Alkaloid
2. Flavonoid
3. Saponin
4. Tanin
5. Glikosida
6. Steroid/triterpenoid

Suspensi EEDGR

**Lampiran 8.** (lanjutan)

4.Bagan alir pengujian farmakologi

25 ekor tikus putih jantan

Dipuasakan ± 18 jam

Kelompok 2

( 5 ekor )

Kelompok 5

( 5 ekor )

Pengukuran suhu awal

Kelompok 1

(5 ekor )

Kelompok 4

( 5 ekor )

Kelompok 3

( 5 ekor )

Pengukuran suhu awal 1 jam setelah pemberian vaksin DTP-HB

Diberi EEDGR 200 mg/kg BB

Diberi EEDG 50 mg/kg BB

Kontrol negatif diberi suspensi CMC 0,5%

Diberi EEDGR 100 mg/kg BB

kontrol positif diberi suspensi parasetamol 0,5%

Analisis data

Pengukuran suhu rektak dilakukan setiap 30 menit selama 3 jam

**Lampiran 9.** Perhitungan dosis

1. Perhitungan dosis CMC 0,5%

CMC 0,5% = jumlah cmc / volume suspensi

= 0,5 g / 100 ml

= 500 mg / 100 ml

= 5 mg / ml

Perhitungan CMC 0,5% pada tikus dengan BB = 200 g

50

= X 200 g

100

= 1 ml

1. Perhitungan dosis parasetamol

Konversi dosis parasetamol dari manusia (70 kg) ke tikus (200 g) = 0,018

Dosis parasetamol untuk manusia dewasa dengan BB (70 kg) = 500 mg

Maka dosis parasetamol pada tikus = dosis terapi manusia x 0,018

= 500 mg x 0,018

= 9 ml

Tikus 200 g 0,2 kg

9 mg

=

0,2 kg

= 45 mg / kg BB

Konsentrasi suspensi parasetamol

Suspensi parasetamol 0,5% = jumlah parasetamol / volume suspensi

= 5 g / 100 ml

= 500 mg / 100 ml

= 5 mg / ml

**Lampiran 9.** (lanjutan)

Dosis untuk tikus = Dosis parasetamol X BB tikus

= 45 mg x 0,2 kg

= 9 ml

Volume suspense yang diambil = dosis parasetamol untuk tikus

Konsentrasi suspense parasetamol

= 9 mg

5 mg / ml

= 1,8 ml

3.Perhitungan dosis EEDG 50 mg/kg

* Konsentrasi suspense EEDG

Konsentrasi EEDG 5% = jumlah EEDG / volume suspense

= 5000 mg /100 ml

= 50 mg/ml

* BB tikus 200 g atau 0,2 kg
* Perhitungan dosis 50 mg/kg BB

= 50

X 200 g

1000

= 10 mg

Volume suspensi yang diberikan = Dosis EEDGR

Konsentrasi

= 10 mg

50 mg/ml

= 0,2 ml

**Lampiran 9.** (lanjutan)

4.Perhitungan dosis EEDG 100 mg/kg BB

* Konsentrasi suspensi EEDG

Konsentrasi EEDG 5% = jumlah EEDG / volume suspense

= 5000 mg / 100 ml

= 50 mg/ml

* BB tikus 200 g atau 0,2 kg
* Perhitungan dosis 100 mg/kg BB

= 100 mg

X 200 g

1000 g

= 20 mg

* Volume suspensi yang diberikan = Dosis EEDG

Konsentrasi

= 20 mg

50 mg/ml

= 0,4 ml

1. Perhitungan dosis EEDG 200 mg/kg BB

* Konsentrasi suspensi EEDG

Konsentrasi EEDG 5% = jumlah EEDG / volume suspensi

= 5000 mg / 100 ml

= 50 mg/ml

* BB tikus 200 g atau 0,2 kg
* Perhitungan dosis 200 mg/kg BB



= 20mg

Volume suspensi yang diberikan = dosis EEDG

Konsentrasi

40 mg

50 mg/ml = 0,8 ml

**Lampiran 10.** Data perlakuan hewan

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Perlakuan | Hewan | Suhu awal | Suhu demam | Suhu rektal tikus (⁰C) selang 30 menit | | | | | |
| 30 | 60 | 90 | 120 | 150 | 180 |
| Kontrol Negatif CMC 0,5% | 1 | 36,8 | 38,3 | 38,2 | 38,2 | 38,1 | 38,0 | 38,0 | 38,0 |
| 2 | 36,9 | 38,1 | 38,1 | 38,1 | 38,0 | 37,9 | 37,8 | 37,7 |
| 3 | 37,0 | 38,2 | 38,0 | 38,0 | 37,9 | 37,7 | 37,7 | 37,6 |
| 4 | 36,9 | 38,3 | 38,2 | 38,2 | 38,0 | 38,0 | 37,9 | 37,9 |
| 5 | 37,0 | 38,0 | 37,9 | 37,9 | 37,8 | 37,6 | 37,6 | 37,5 |
|  |  |  |  |  |  |  |  |  |  |
| Kontrol positif parasetamol | 1 | 36,6 | 38,0 | 37,7 | 37,5 | 37,4 | 37,2 | 37,1 | 36,8 |
| 2 | 36,9 | 38,1 | 37,9 | 37,6 | 37,5 | 37,4 | 37,3 | 36,9 |
| 3 | 36,8 | 38,1 | 38,0 | 37,8 | 37,6 | 37,2 | 36,9 | 36,7 |
| 4 | 36,7 | 38,2 | 37,6 | 37,4 | 37,4 | 37,3 | 37,2 | 37,0 |
| 5 | 36,5 | 38,3 | 37,0 | 37,2 | 37,0 | 36,8 | 36,6 | 36,5 |
|  |  |  |  |  |  |  |  |  |  |
| EEDG 50 mg/kg BB | 1 | 36,9 | 38,3 | 38,1 | 37,9 | 37,8 | 37,6 | 37,4 | 37,0 |
| 2 | 36,8 | 38,0 | 37,9 | 37,7 | 37,6 | 37,5 | 37,4 | 37,1 |
| 3 | 37,0 | 38,1 | 37,9 | 37,6 | 37,5 | 37,4 | 37,2 | 37,0 |
| 4 | 36,6 | 38,2 | 38,0 | 37,8 | 37,7 | 37,5 | 37,3 | 37,2 |
| 5 | 36,7 | 38,4 | 38,2 | 37,9 | 37,8 | 37,7 | 37,5 | 37,3 |
|  |  |  |  |  |  |  |  |  |  |
| EEDG 100 mg/kg BB | 1 | 36,5 | 38,1 | 37,8 | 37,7 | 37,5 | 37,3 | 37,1 | 36,8 |
| 2 | 37,0 | 38,2 | 37,7 | 37,6 | 37,5 | 37,4 | 37,2 | 37,1 |
| 3 | 36,8 | 38,3 | 38,1 | 37,9 | 37,8 | 37,6 | 36,3 | 36,9 |
| 4 | 36,7 | 38,0 | 37,8 | 37,7 | 37,6 | 37,4 | 37,2 | 36,8 |
| 5 | 36,6 | 38,2 | 38,0 | 37,8 | 37,7 | 37,5 | 37,4 | 37,0 |
|  |  |  |  |  |  |  |  |  |  |
| EEDG 200 mg/kg BB | 1 | 36,8 | 38,0 | 37,8 | 37,5 | 37,4 | 37,2 | 37,0 | 36,8 |
| 2 | 36,9 | 38,1 | 37,9 | 37,7 | 37,6 | 37,4 | 37,2 | 36,9 |
| 3 | 36,7 | 38,2 | 37,7 | 37,4 | 37,5 | 37,3 | 37,1 | 36,7 |
| 4 | 36,9 | 38,0 | 37,9 | 37,5 | 37,4 | 37,3 | 37,1 | 36,9 |
| 5 | 37,0 | 38,3 | 38,0 | 37,8 | 37,7 | 37,5 | 37,3 | 37,0 |

**Lampiran 11.** Tabel konversi dosis (g).

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Konvensi | Mencit  20 g | Tikus  200 g | Marmut  400 g | Kelinci  1,5 kg | Kucing  1,5 kg | Kera  4 kg | Anjing  12 kg | Manusia  70 kg |
| Mencit  20 g | 1,0 | 7,0 | 12,23 | 27,80 | 29,70 | 64,10 | 124,20 | 387,9 |
| Tikus  200 g | 0,14 | 1,0 | 1,74 | 3,90 | 4,20 | 9,20 | 17,80 | 56,0 |
| Marmut  400 g | 0,08 | 0,57 | 1,0 | 2,25 | 2,40 | 5,20 | 10,20 | 31,50 |
| Kelinci  1,5 g | 0,04 | 0,25 | 0,44 | 1,0 | 1,08 | 2,40 | 4,50 | 14,20 |
| Kucing  1,5 g | 0,03 | 0,23 | 0,41 | 0,92 | 1,0 | 2,20 | 4,10 | 13,0 |
| Kera  4 kg | 0,016 | 0,11 | 0,19 | 0,42 | 0,43 | 0,1 | 1,9 | 6,1 |
| Anjing  12 kg | 0,008 | 0,06 | 0,10 | 0,22 | 1,24 | 0,52 | 1,0 | 3,10 |
| Manusia  70 kg | 0,0026 | 0,018 | 0,031 | 0,07 | 0,076 | 0,16 | 0,32 | 1,0 |

**Lampiran 12.** Tabel volume maksimum lambung pada hewan (ml)

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

**Lampiran 13.** Hasil SPSS, ANOVA dan Duncan

| **Descriptives** | | | | |
| --- | --- | --- | --- | --- |
|  | | | Statistic | Std. Error |
| t.0 | Mean | | 36.800 | .0316 |
| 95% Confidence Interval for Mean | Lower Bound | 36.735 |  |
| Upper Bound | 36.865 |  |
| 5% Trimmed Mean | | 36.806 |  |
| Median | | 36.800 |  |
| Variance | | .025 |  |
| Std. Deviation | | .1581 |  |
| Minimum | | 36.5 |  |
| Maximum | | 37.0 |  |
| Range | | .5 |  |
| Interquartile Range | | .2 |  |
| Skewness | | -.412 | .464 |
| Kurtosis | | -.846 | .902 |
| t.induksi | Mean | | 38.160 | .0245 |
| 95% Confidence Interval for Mean | Lower Bound | 38.109 |  |
| Upper Bound | 38.211 |  |
| 5% Trimmed Mean | | 38.157 |  |
| Median | | 38.200 |  |
| Variance | | .015 |  |
| Std. Deviation | | .1225 |  |
| Minimum | | 38.0 |  |
| Maximum | | 38.4 |  |
| Range | | .4 |  |
| Interquartile Range | | .3 |  |
| Skewness | | .118 | .464 |
| Kurtosis | | -1.120 | .902 |
| t.30 | Mean | | 37.924 | .0343 |
| 95% Confidence Interval for Mean | Lower Bound | 37.853 |  |
| Upper Bound | 37.995 |  |
| 5% Trimmed Mean | | 37.926 |  |
| Median | | 37.900 |  |
| Variance | | .029 |  |
| Std. Deviation | | .1715 |  |
| Minimum | | 37.6 |  |
| Maximum | | 38.2 |  |
| Range | | .6 |  |
| Interquartile Range | | .3 |  |
| Skewness | | -.028 | .464 |
| Kurtosis | | -.798 | .902 |
| t.60 | Mean | | 37.732 | .0486 |
| 95% Confidence Interval for Mean | Lower Bound | 37.632 |  |
| Upper Bound | 37.832 |  |
| 5% Trimmed Mean | | 37.734 |  |
| Median | | 37.700 |  |
| Variance | | .059 |  |
| Std. Deviation | | .2428 |  |
| Minimum | | 37.2 |  |
| Maximum | | 38.2 |  |
| Range | | 1.0 |  |
| Interquartile Range | | .4 |  |
| Skewness | | -.084 | .464 |
| Kurtosis | | -.224 | .902 |
| t.90 | Mean | | 37.632 | .0482 |
| 95% Confidence Interval for Mean | Lower Bound | 37.533 |  |
| Upper Bound | 37.731 |  |
| 5% Trimmed Mean | | 37.638 |  |
| Median | | 37.600 |  |
| Variance | | .058 |  |
| Std. Deviation | | .2410 |  |
| Minimum | | 37.0 |  |
| Maximum | | 38.1 |  |
| Range | | 1.1 |  |
| Interquartile Range | | .3 |  |
| Skewness | | -.235 | .464 |
| Kurtosis | | .798 | .902 |
| t.120 | Mean | | 37.468 | .0535 |
| 95% Confidence Interval for Mean | Lower Bound | 37.358 |  |
| Upper Bound | 37.578 |  |
| 5% Trimmed Mean | | 37.471 |  |
| Median | | 37.400 |  |
| Variance | | .071 |  |
| Std. Deviation | | .2673 |  |
| Minimum | | 36.8 |  |
| Maximum | | 38.0 |  |
| Range | | 1.2 |  |
| Interquartile Range | | .3 |  |
| Skewness | | .089 | .464 |
| Kurtosis | | .987 | .902 |
| t.150 | Mean | | 37.312 | .0628 |
| 95% Confidence Interval for Mean | Lower Bound | 37.182 |  |
| Upper Bound | 37.442 |  |
| 5% Trimmed Mean | | 37.311 |  |
| Median | | 37.300 |  |
| Variance | | .099 |  |
| Std. Deviation | | .3140 |  |
| Minimum | | 36.6 |  |
| Maximum | | 38.0 |  |
| Range | | 1.4 |  |
| Interquartile Range | | .4 |  |
| Skewness | | .336 | .464 |
| Kurtosis | | .634 | .902 |
| t.180 | Mean | | 37.084 | .0765 |
| 95% Confidence Interval for Mean | Lower Bound | 36.926 |  |
| Upper Bound | 37.242 |  |
| 5% Trimmed Mean | | 37.064 |  |
| Median | | 37.000 |  |
| Variance | | .146 |  |
| Std. Deviation | | .3826 |  |
| Minimum | | 36.5 |  |
| Maximum | | 38.0 |  |
| Range | | 1.5 |  |
| Interquartile Range | | .5 |  |
| Skewness | | 1.079 | .464 |
| Kurtosis | | .544 | .902 |

| **Tests of Normality** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
|  | Kolmogorov-Smirnova | | | Shapiro-Wilk | | |
| Statistic | df | Sig. | Statistic | df | Sig. |
| t.0 | .176 | 25 | .043 | .916 | 25 | .041 |
| t.induksi | .168 | 25 | .067 | .898 | 25 | .016 |
| t.30 | .124 | 25 | .200\* | .949 | 25 | .233 |
| t.60 | .090 | 25 | .200\* | .982 | 25 | .918 |
| t.90 | .128 | 25 | .200\* | .956 | 25 | .345 |
| t.120 | .132 | 25 | .200\* | .947 | 25 | .215 |
| t.150 | .155 | 25 | .123 | .955 | 25 | .320 |
| t.180 | .227 | 25 | .002 | .888 | 25 | .010 |
| a. Lilliefors Significance Correction  \*. This is a lower bound of the true significance. | | | | | | |

| **ANOVA** | | | | | | |
| --- | --- | --- | --- | --- | --- | --- |
|  | | Sum of Squares | df | Mean Square | F | Sig. |
| t.0 | Between Groups | .172 | 4 | .043 | 2.009 | .132 |
| Within Groups | .428 | 20 | .021 |  |  |
| Total | .600 | 24 |  |  |  |
| t.induksi | Between Groups | .020 | 4 | .005 | .294 | .878 |
| Within Groups | .340 | 20 | .017 |  |  |
| Total | .360 | 24 |  |  |  |
| t.30 | Between Groups | .302 | 4 | .075 | 3.733 | .020 |
| Within Groups | .404 | 20 | .020 |  |  |
| Total | .706 | 24 |  |  |  |
| t.60 | Between Groups | .934 | 4 | .234 | 9.733 | .000 |
| Within Groups | .480 | 20 | .024 |  |  |
| Total | 1.414 | 24 |  |  |  |
| t.90 | Between Groups | .930 | 4 | .233 | 10.026 | .000 |
| Within Groups | .464 | 20 | .023 |  |  |
| Total | 1.394 | 24 |  |  |  |
| t.120 | Between Groups | 1.218 | 4 | .305 | 12.282 | .000 |
| Within Groups | .496 | 20 | .025 |  |  |
| Total | 1.714 | 24 |  |  |  |
| t.150 | Between Groups | 1.802 | 4 | .451 | 15.979 | .000 |
| Within Groups | .564 | 20 | .028 |  |  |
| Total | 2.366 | 24 |  |  |  |
| t.180 | Between Groups | 3.006 | 4 | .751 | 29.583 | .000 |
| Within Groups | .508 | 20 | .025 |  |  |
| Total | 3.514 | 24 |  |  |  |

| **t.0** | | | |
| --- | --- | --- | --- |
| Duncana | | | |
| perlakuan | N | Subset for alpha = 0.05 | |
| 1 | 2 |
| PCT | 5 | 36.700 |  |
| EEDGR100 | 5 | 36.720 | 36.720 |
| EEDGR50 | 5 | 36.800 | 36.800 |
| EEDGR200 | 5 | 36.860 | 36.860 |
| cmc 0,5 % | 5 |  | 36.920 |
| Sig. |  | .127 | .060 |
| Means for groups in homogeneous subsets are displayed. | | | |
| a. Uses Harmonic Mean Sample Size = 5.000. | | | |

| **t.induksi** | | |
| --- | --- | --- |
| Duncana | | |
| perlakuan | N | Subset for alpha = 0.05 |
| 1 |
| EEDGR200 | 5 | 38.120 |
| PCT | 5 | 38.140 |
| EEDGR100 | 5 | 38.160 |
| cmc 0,5 % | 5 | 38.180 |
| EEDGR50 | 5 | 38.200 |
| Sig. |  | .394 |
| Means for groups in homogeneous subsets are displayed. | | |
| a. Uses Harmonic Mean Sample Size = 5.000. | | |
|  | | |

| **t.30** | | | | |
| --- | --- | --- | --- | --- |
| Duncana | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | |
| 1 | 2 | 3 |
| PCT | 5 | 37.780 |  |  |
| EEDGR200 | 5 | 37.860 | 37.860 |  |
| EEDGR100 | 5 | 37.880 | 37.880 |  |
| EEDGR50 | 5 |  | 38.020 | 38.020 |
| cmc 0,5 % | 5 |  |  | 38.080 |
| Sig. |  | .306 | .107 | .512 |
| Means for groups in homogeneous subsets are displayed. | | | | |
| a. Uses Harmonic Mean Sample Size = 5.000. | | | | |
| **t.60** | | | | |
| Duncana | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | |
| 1 | 2 | 3 |
| PCT | 5 | 37.500 |  |  |
| EEDGR200 | 5 | 37.580 | 37.580 |  |
| EEDGR100 | 5 |  | 37.740 |  |
| EEDGR50 | 5 |  | 37.780 |  |
| cmc 0,5 % | 5 |  |  | 38.060 |
| Sig. |  | .424 | .066 | 1.000 |
| Means for groups in homogeneous subsets are displayed. | | | | |
| a. Uses Harmonic Mean Sample Size = 5.000. | | | | |
| **t.90** | | | | |
| Duncana | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | |
| 1 | 2 | 3 |
| PCT | 5 | 37.380 |  |  |
| EEDGR200 | 5 | 37.520 | 37.520 |  |
| EEDGR100 | 5 |  | 37.620 |  |
| EEDGR50 | 5 |  | 37.680 |  |
| cmc 0,5 % | 5 |  |  | 37.960 |
| Sig. |  | .162 | .131 | 1.000 |
| Means for groups in homogeneous subsets are displayed. | | | | |
| a. Uses Harmonic Mean Sample Size = 5.000. | | | | |

| **t.120** | | | | |
| --- | --- | --- | --- | --- |
| Duncana | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | |
| 1 | 2 | 3 |
| PCT | 5 | 37.180 |  |  |
| EEDGR200 | 5 | 37.340 | 37.340 |  |
| EEDGR100 | 5 |  | 37.440 |  |
| EEDGR50 | 5 |  | 37.540 |  |
| cmc 0,5 % | 5 |  |  | 37.840 |
| Sig. |  | .124 | .071 | 1.000 |
| Means for groups in homogeneous subsets are displayed. | | | | |
| a. Uses Harmonic Mean Sample Size = 5.000. | | | | |
| **t.150** | | | | |
| Duncana | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | |
| 1 | 2 | 3 |
| PCT | 5 | 37.020 |  |  |
| EEDGR200 | 5 | 37.140 | 37.140 |  |
| EEDGR100 | 5 | 37.240 | 37.240 |  |
| EEDGR50 | 5 |  | 37.360 |  |
| cmc 0,5 % | 5 |  |  | 37.800 |
| Sig. |  | .063 | .063 | 1.000 |
| Means for groups in homogeneous subsets are displayed. | | | | |
| a. Uses Harmonic Mean Sample Size = 5.000. | | | | |
| **t.180** | | | | |
| Duncana | | | | |
| perlakuan | N | Subset for alpha = 0.05 | | |
| 1 | 2 | 3 |
| PCT | 5 | 36.780 |  |  |
| EEDGR200 | 5 | 36.860 |  |  |
| EEDGR100 | 5 | 36.920 | 36.920 |  |
| EEDGR50 | 5 |  | 37.120 |  |
| cmc 0,5 % | 5 |  |  | 37.740 |
| Sig. |  | .203 | .061 | 1.000 |
| Means for groups in homogeneous subsets are displayed. | | | | |