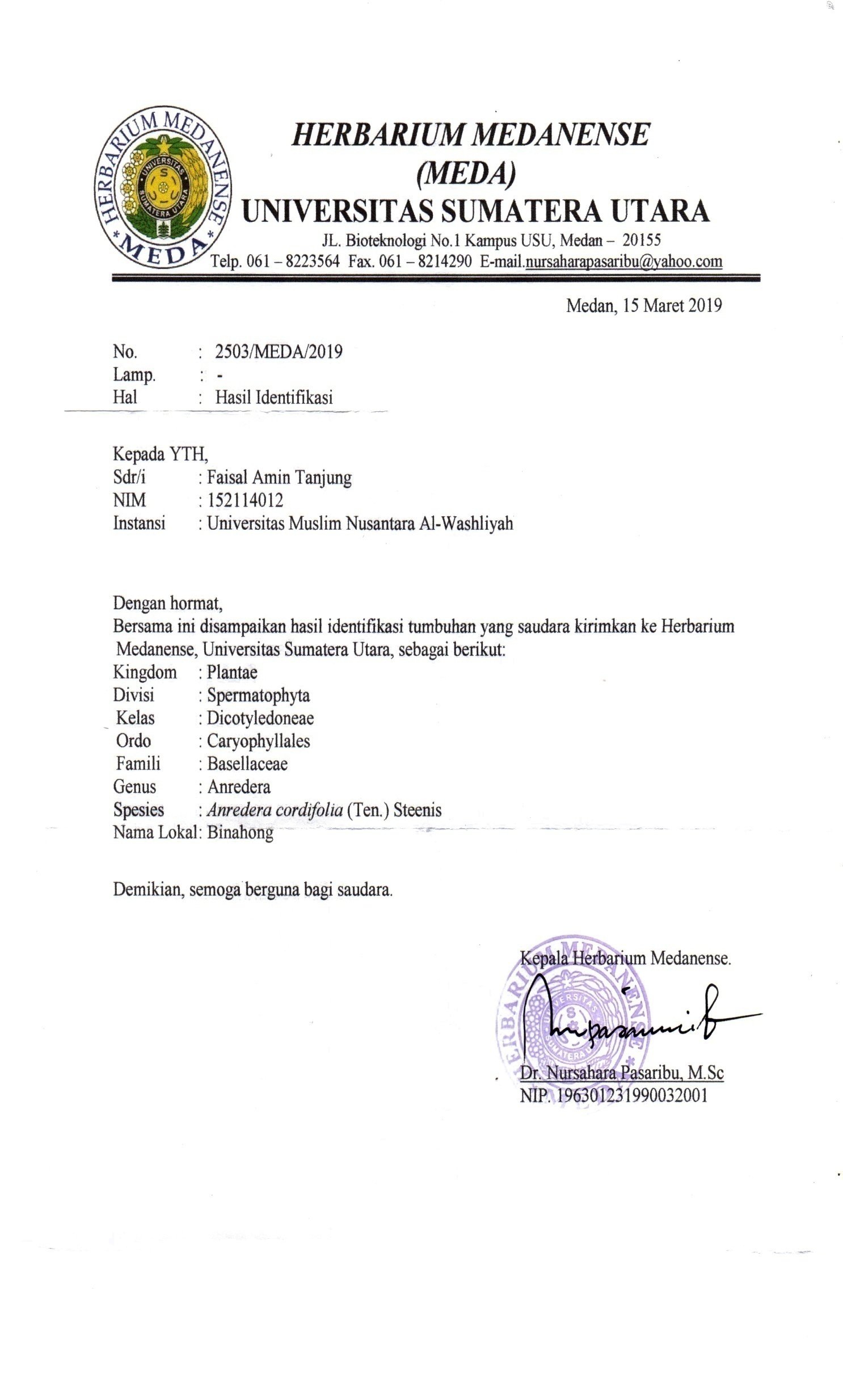
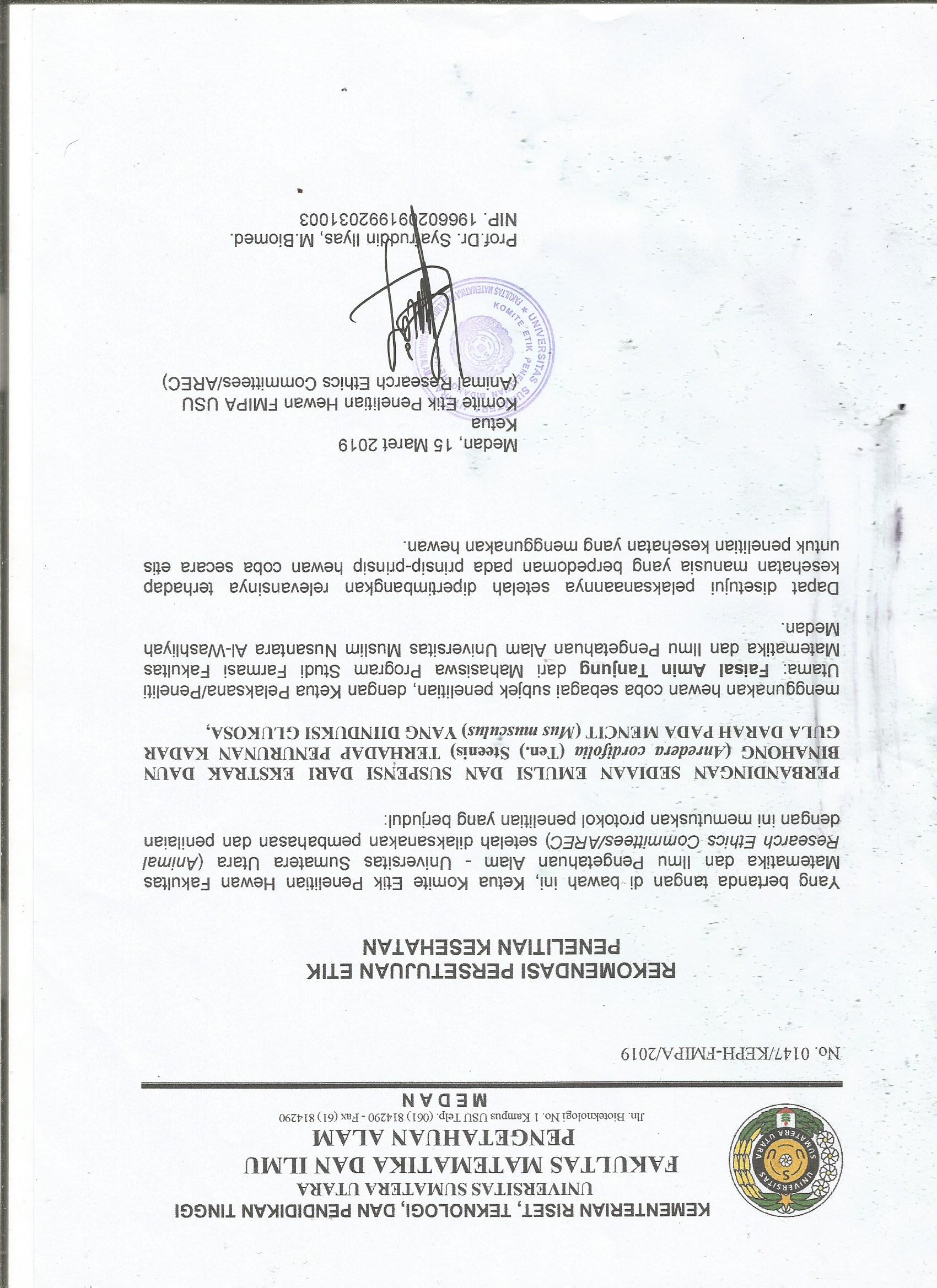
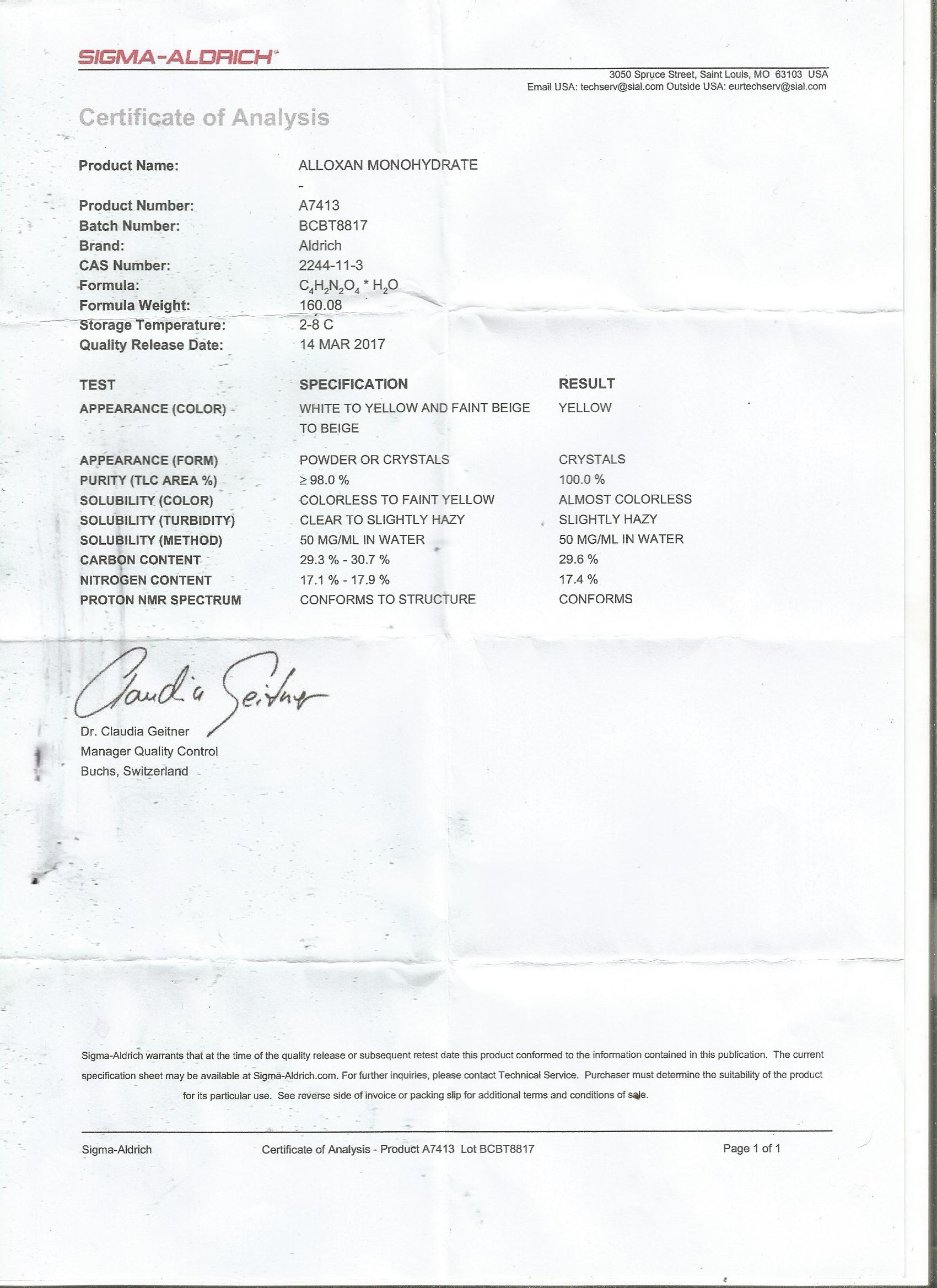
**Lampiran 1.** Herbarium Medanense

**Lampiran 2**. Persetujuan Etik Penelitian Kesehatan



**Lampiran 3.** *Certificate of Analysis*



**Lampiran 4.** Tumbuhan Daun Binahong (*Anredera cordifolia* (Ten.) Steenis)



**Gambar 1.** Tumbuhan Segar Daun Binahong (*Anredera cordifolia* (Ten.) Steenis)



**Gambar 2.** Tumbuhan simplisia Daun Binahong (*Anredera cordifolia* (Ten.) Steenis)

**Lampiran 5.** Serbuk Simplisia dan Ekstrak Daun Binahong (*Anredera cordifolia* (Ten.) Steenis)

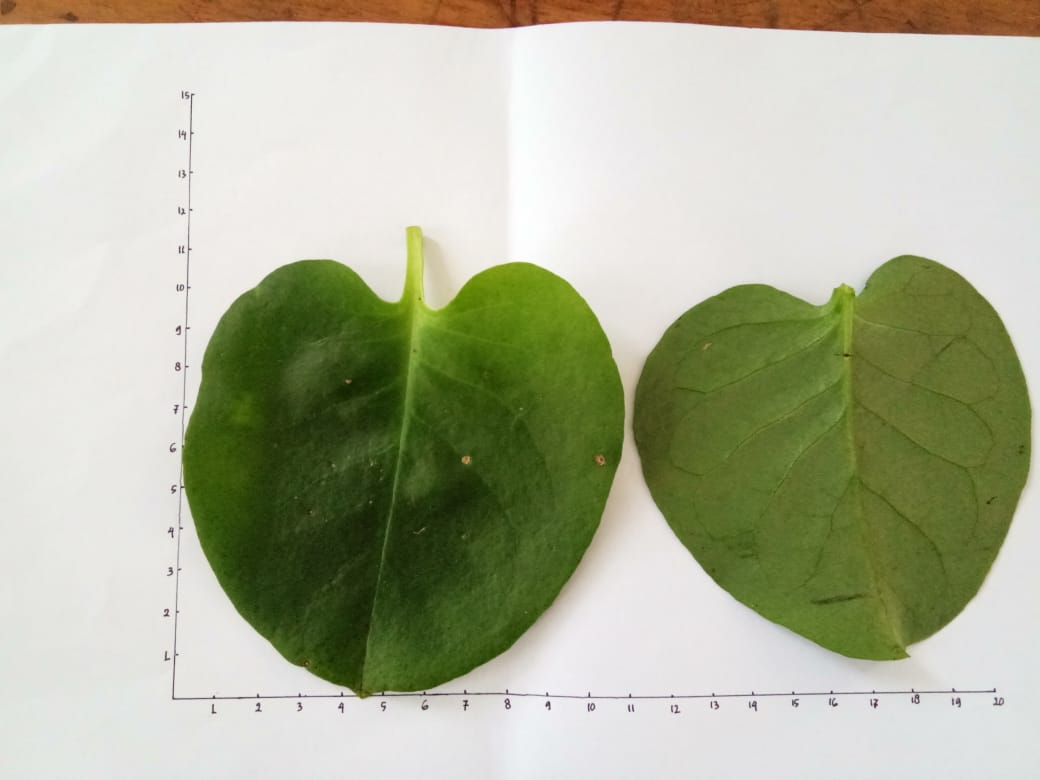


**Gambar 3.** Serbuk Simplisia Daun Binahong (*Anredera cordifolia* (Ten.) Steenis)

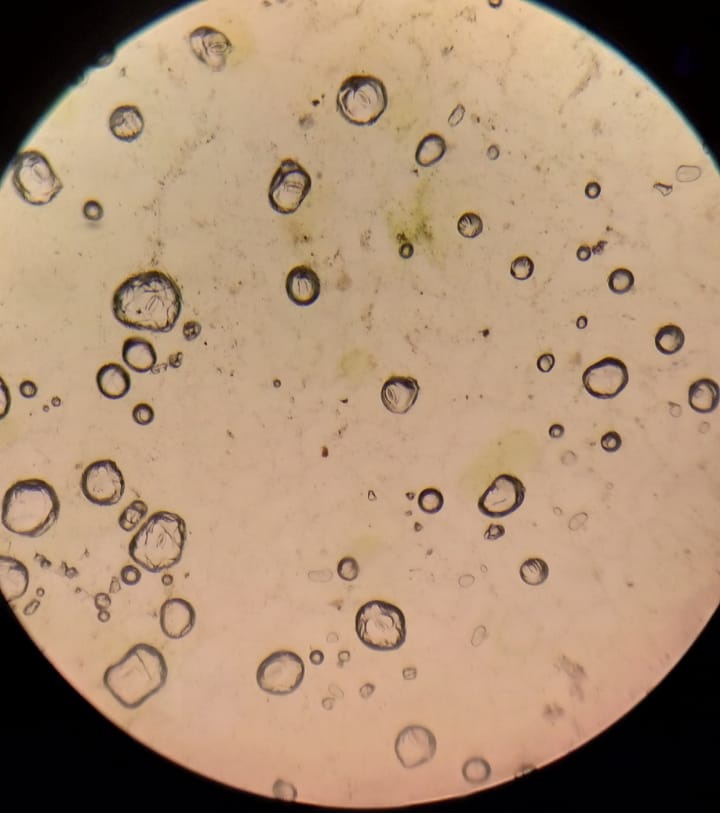
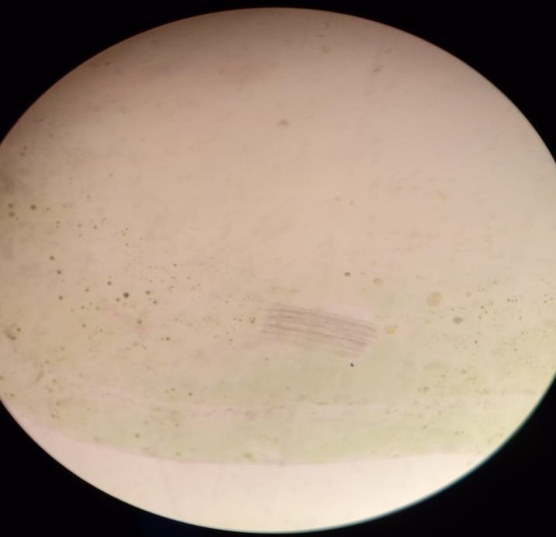


**Gambar 4.** Serbuk Simplisia Daun Binahong (*Anredera cordifolia* (Ten.) Steenis)

**Lampiran 6**. Makroskopik dan Mikroskopik Daun Binahong (*Anredera cordifolia* (Tan.) Steenis)



**Gambar 5.** Penampakan makroskopik Daun Binahong (*Anredera cordifolia* (Tan.) Steenis)

a

b c

**Gambar 6.** Penampakan mikroskopik daun ubi segar

Keterangan Gambar :

1. Xylem
2. Floem
3. Epidermis

**Lampiran 7.** Bagan Alir Penelitian

Daun Binahong 12 kg

Dibersihkan dari pengotor

Dicuci bersih dan ditiriskan

Diangin-anginkan

Ditimbang

Daun binahong

Dikeringkan pada suhu 40˚C

Ditimbang

Simplisia kering 610 g

Dihaluskan

Ditimbang

Serbuk simplisia 600 g

Dimaserasi dengan etanol 96%

Karakterisasi simplisia :

* Peemeriksaan makroskopik dan mikroskopik
* Penetapan kadar air
* Penetapan kadar abu
* Penetepan kadar abu tidak larut asam
* Penetapan kadar sari larut dalam air

Ekstrak cair

Dipekatkan dengan *rotary evaporator*

Skrining fitokimia

* Alkaloid
* Flavonoid
* Steroid/triterpenoid
* Saponin
* Tanin
* Antrakuinon

Ekstrak kental

Pengujian antidiabetes

**Lampiran 8.** Bagan Alir Penelitian Lanjutan

Mencit jantan 25 ekor

Adaptasi selama 7 hari

Adaptasi selama 7 hari

Pengukuran KGD sebelum induksi

Pengukuran KGD

Induksi aloksan dosis 120 mg/KgBB

Pengukuran KGD setelah induksi

Dibagi menjdi 5/kelompok

Mencit diabetes

EDB dosis 400 mg/KgBB

EDB dosis 200 mg/KgBB

EDB dosis 100 mg/KgBB

Kontrol positif

Kontrol negatif

Pengamatan selama 7 jam

Analisis Data

Ket : EDB = Ekstrak Daun Binahong

**Lampiran 9**. Bagan Alir Pembuatan Serbuk Simplisia

Daun Binahong

Dibersihkan dari pengotor

Dicuci bersih dengan air

mengalir

Ditiriskan

Diangin-anginkan

Ditimbang

Berat daun binahong setelah dibersihkan

Dikeringkan didalam

lemari pengering

pada suhu 40oC

Disortasi kering

Ditimbang

Berat simplisia 5,30 kg

Dihaluskan menggunakan

blender

Ditimbang

Berat serbuk simplisia 5,19kg

Dimasukkan kedalam

wadah

Tertutup rapat

Serbuk simplisia

**Lampiran 10.** Bagan Alir Pembuatan Ekstrak

5 kg serbuk simplisia daun binahong

Dimasukkan kedalam bejana

Ditambahkan etanol 96%

sebanyak 75 bagian (37.500ml) diaduk

Didiamkan selama 5 hari sambil diaduk

Disaring

Ampas

Maserat I

Dimasukkan dengan etanol 96% sebanyak 25 bagian (12.500 ml) dan diaduk

Dimaserasi kembali selama 2 hari sambil diaduk

Disaring

Maserat II

Maserat daun binahong

Diperlukan dengan rotary evaporator pada

suhu 60˚C Diuapkan dengan penangas air

Ekstrak etanol daun binahong

**Lampiran 11.** Perhitungan Hasil Pemeriksaan Karakterisasi Simplisia

1. Penetapan Kadar Air

Kadar Air =

* Sampel 1

Berat Sampel = 7,961 gr

Volume I = 0,5 ml

Kadar Air = = 6,28 %

* Sampel 2

Berat Sampel = 7,968 gr

Volume I = 0,5 ml

Kadar Air = = 6,2%

* Sampel 3

Berat Sampel = 7,967 gr

Volume I = 0,2 ml

Kadar Air = = 6,27%

Maka, kadar air rata-rata = = 6,273%

1. Penetapan Kadar Sari Larut Dalam Air

Kadar Sari Larut Air =

Berat Sampel = 5,0221 gr

Berat Sari Larut Air = 0,2334 gr

Kadar Sari Larut Air = = 12%

1. Penetapan Kadar Sari Larut Dalam Etanol

Kadar Sari Larut Etanol =

Berat Sampel = 5,0221 gr

Berat Cawan + Sari = 63,8645 gr

Kadar Cawan = 62,7986 gr

Kadar Sari Larut Etanol = = 21,22%

1. Penetapan Kadar Abu Total

Kadar Abu Total =

Berat Sampel = 2,0201 gr

Berat Abu = 0,2032 gr

Kadar Abu Total = = 10,06%

1. Penetapan Kadar Abu Tidak Larut Dalam Asam

Kadar Abu Larut Asam =

Berat Sampel = 2,0201gr

Berat Abu Larut Asam = 0,0980 gr

Kadar Abu Larut Asam = = 4,85 %

**Lampiran 12**. Alat *Rotary Evaporator,* Alat Azeotrop, Alat pengukur gula darah





**Gambar 7.** Alat *Rotary Evaporator*

**Gambar 8.** Alat Azeotrop **Gambar 9.** Alat pengukur gula darah

**Lampiran 13.** Skrining Fitokimia Daun Binahong



Pemeriksaan Steroit Alkaloid

Flavonoid

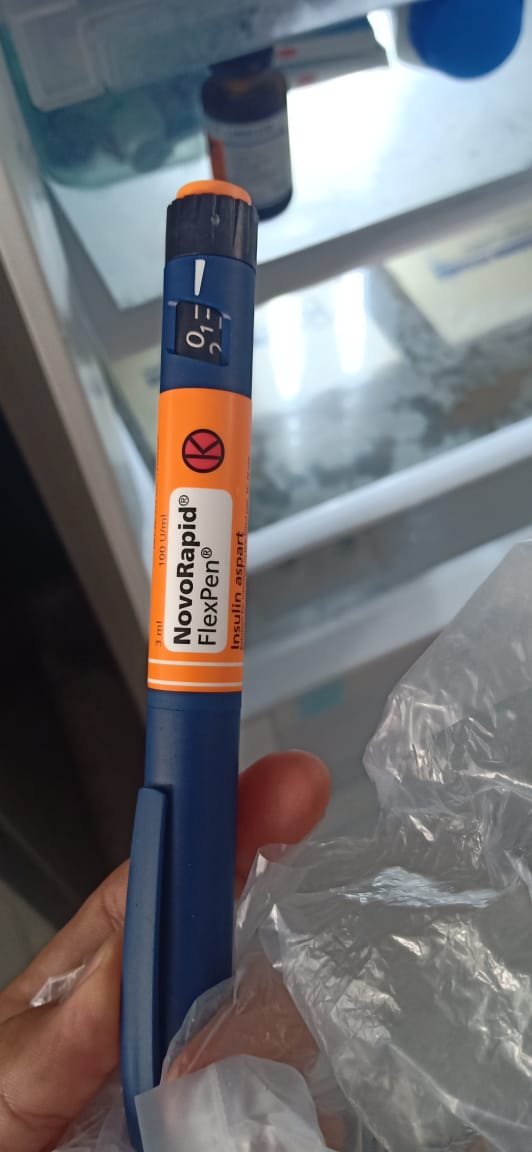


Saponin Tanin

**Lampiran 14.** Hewan Percobaan dan NovoRapid

Hewan Percobaan



NovoRapid Pemberian Suspensi EDB





Hasil Kadar Gula Darah

Pengukuran Kadar Gula Darah

Hewan uji yang diinduksi aloksan

Pemberian NovoRapid (insulin)

**Lampiran 15.** Tabel Pemberian Insulin Pada Mencit Diabetes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No | Dosis NovoRapid (Unit) | Mencit 1 | Mencit 2 | Mencit 3 |
| 1. | 1 Unit | 60 mg/dL | 65 mg/dL | 59 mg/dL |
| 2. | 2 Unit | 20 mg/dl | 20 mg/dL | - |
| 3. | 3 Unit | - | - | - |

Ket: ­ = Mencit mati

**Lampiran 16.** Penentuan jumlah hewan uji menggunakan Rumus Federer

Jumlah mencit didapat dari rumus federer

(n-1) (t-1) > 15

Ket : n = jumlah mencit tiap kelompok

t = jumlah kelompok

Dalam penelitian ini hewan uji dibagi dalam 5 kelompok. jadi jumlah hewan uji yang digunakan dalam 1 kelompok adalah :

(n-1) (t-1) > 15

(n-1) (5-1) > 15

(n-1) 4 > 15

4n-4 > 15

4n > 19

n > 4,75

jadi, jumlah hewan uji dalam 1 kelompok terdiri dari 5 ekor mencit

**Lampiran 17.** Tabel konversi dosis (g), volume maksimum lambung hewan (ml) dan contoh perhitungan dosis

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Konversi | 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 kg | 0,04 | 0,25 | 0,44 | 1,0 | 1,08 | 2,40 | 4,50 | 14,20 |
| Kucing  1,5 kg | 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 |

Tabel konversi dosis hewan percobaan dengan manusia

Tabel volume maksimum larutan yang dapat diberikan pada hewan

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 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 (3 kg) | 5-10 | 1,0 | 10-20 | 5-10 | 50,0 |
| Anjing (3 kg) | 10-20 | 5,0 | 20-50 | 10,0 | 100,0 |

1. Perhitungan dosis suspensi CMC 0,5%

Suspensi CMC dibuat dengan cara melarutkan 500 mg CMC dalam 100 ml aquades panas

Konsentrasi 0,5% =

Volume pemberian : 0,5 ml

1. Perhitungan dosis suspensi ekstrak daun binahong 100 mg/kgBB

Dosis =

=

Konsentrasi 5% =

Volume pemberian =

1. Perhitungan dosis suspensi ekstrak daun binahong 200 mg/kgBB

Dosis =

Volume pemberian =

1. Perhitungan dosis suspensi ekstrak daun binahong 400 mg/kgBB

Dosis =

Volume pemberian =

**Lampiran 18.** Data pengamatan penelitian kadar gula darah

Tabel hasil pengamatan kadar gula darah

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Kelompok | Berat  Badan  (gram) | Sebelum induksi | Sesudah induksi | Waktu pengamatan KGD (mg/dL) | | | | | | | | |
| 30’ | 60’ | 90’ | 120’ | 180’ | 240’ | 300’ | 360’ | 420’ |
| 1 | CMC | 31 | 72 | 178 | 180 | 200 | 201 | 260 | 250 | 261 | 260 | 265 | 266 |
| 2 | 30 | 80 | 160 | 176 | 179 | 200 | 240 | 300 | 280 | 286 | 290 | 287 |
| 3 | 29 | 92 | 182 | 190 | 186 | 197 | 196 | 267 | 268 | 259 | 255 | 262 |
| 4 | 30 | 82 | 181 | 190 | 195 | 215 | 189 | 205 | 222 | 230 | 241 | 230 |
| 5 | 30 | 81 | 192 | 198 | 215 | 210 | 221 | 240 | 249 | 243 | 242 | 246 |
| Rata-rata | | 30 | 81,4 | 178,6 | 186,8 | 195 | 204,6 | 221,2 | 252,4 | 256 | 255,6 | 258,6 | 258,2 |
| 1 | NovoRapid | 31 | 60 | 204 | 176 | 145 | 136 | 124 | 115 | 99 | 112 | 113 | 115 |
| 2 | 31 | 76 | 197 | 160 | 136 | 129 | 125 | 119 | 97 | 97 | 120 | 105 |
| 3 | 29 | 83 | 180 | 140 | 147 | 140 | 121 | 109 | 96 | 98 | 121 | 104 |
| 4 | 28 | 96 | 212 | 173 | 140 | 136 | 132 | 100 | 98 | 102 | 115 | 121 |
| 5 | 30 | 84 | 209 | 174 | 157 | 150 | 140 | 122 | 89 | 107 | 99 | 113 |
| Rata-rata | | 29,8 | 79,8 | 200,4 | 164,6 | 145 | 138,2 | 128,4 | 113 | 95,8 | 103,2 | 113,6 | 111,6 |
| 1 | EDB 100 mg/KgBB | 29 | 84 | 190 | 160 | 149 | 136 | 118 | 114 | 94 | 102 | 110 | 109 |
| 2 | 30 | 81 | 192 | 173 | 138 | 136 | 115 | 108 | 95 | 96 | 92 | 114 |
| 3 | 30 | 98 | 174 | 168 | 122 | 131 | 119 | 112 | 93 | 90 | 97 | 115 |
| 4 | 32 | 99 | 201 | 170 | 130 | 128 | 121 | 103 | 90 | 89 | 115 | 110 |
| 5 | 31 | 102 | 204 | 150 | 149 | 127 | 122 | 119 | 92 | 99 | 102 | 113 |
| Rata-rata | | 30,4 | 92,8 | 192,2 | 164,2 | 137,6 | 131,6 | 119 | 111,2 | 92,8 | 95,2 | 103,2 | 112,2 |
| 1 | EDB 200 mg/KgBB | 28 | 97 | 176 | 160 | 138 | 125 | 118 | 110 | 76 | 99 | 86 | 120 |
| 2 | 28 | 98 | 203 | 160 | 140 | 121 | 115 | 107 | 96 | 100 | 87 | 109 |
| 3 | 31 | 74 | 198 | 140 | 129 | 115 | 110 | 102 | 73 | 84 | 115 | 98 |
| 4 | 31 | 83 | 176 | 153 | 130 | 130 | 112 | 111 | 62 | 90 | 104 | 115 |
| 5 | 30 | 90 | 180 | 146 | 127 | 133 | 114 | 107 | 75 | 89 | 100 | 119 |
| Rata-rata | | 29,6 | 88,4 | 186,6 | 151,8 | 132,8 | 124,8 | 113,8 | 107,4 | 76,4 | 92,4 | 98,4 | 112,2 |
| 1 | EDB 400 mg/KgBB | 31 | 96 | 197 | 44 | 55 | 55 | 90 | 103 | 103 | 112 | 120 | 124 |
| 2 | 29 | 97 | 201 | 55 | 70 | 73 | 74 | 104 | 110 | 120 | 120 | 138 |
| 3 | 29 | 101 | 173 | 57 | 58 | 60 | 71 | 96 | 96 | 115 | 126 | 131 |
| 4 | 28 | 97 | 189 | 56 | 59 | 59 | 75 | 99 | 100 | 118 | 121 | 125 |
| 5 | 30 | 86 | 211 | 50 | 60 | 65 | 80 | 100 | 105 | 119 | 124 | 129 |
| Rata-rata | | 29,4 | 95,4 | 194,2 | 52,4 | 60,4 | 62,4 | 78 | 100,4 | 102,8 | 116,8 | 122,2 | 129,4 |

**Lampiran 19.** Tabel Hasil Test Normalitas

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Tests of Normality** | | | | | | | |
|  | Perlakuan | Kolmogorov-Smirnova | | | Shapiro-Wilk | | |
|  | Statistic | df | Sig. | Statistic | df | Sig. |
| sebelum induksi | Cmc | ,266 | 5 | ,200\* | ,934 | 5 | ,623 |
| 100 mg/kgBB | ,196 | 5 | ,200\* | ,960 | 5 | ,805 |
| 200 mg/kgBB | ,306 | 5 | ,141 | ,842 | 5 | ,172 |
| 400 mg/kgBB | ,204 | 5 | ,200\* | ,922 | 5 | ,544 |
| Pembanding | ,343 | 5 | ,055 | ,833 | 5 | ,146 |
| setelah induksi | Cmc | ,279 | 5 | ,200\* | ,910 | 5 | ,468 |
| 100 mg/kgBB | ,211 | 5 | ,200\* | ,899 | 5 | ,407 |
| 200 mg/kgBB | ,226 | 5 | ,200\* | ,923 | 5 | ,553 |
| 400 mg/kgBB | ,295 | 5 | ,177 | ,811 | 5 | ,099 |
| Pembanding | ,178 | 5 | ,200\* | ,975 | 5 | ,907 |
| menit 30 | Cmc | ,242 | 5 | ,200\* | ,940 | 5 | ,665 |
| 100 mg/kgBB | ,311 | 5 | ,129 | ,815 | 5 | ,106 |
| 200 mg/kgBB | ,259 | 5 | ,200\* | ,909 | 5 | ,459 |
| 400 mg/kgBB | ,225 | 5 | ,200\* | ,900 | 5 | ,410 |
| Pembanding | ,285 | 5 | ,200\* | ,868 | 5 | ,260 |
| menit 60 | Cmc | ,159 | 5 | ,200\* | ,979 | 5 | ,926 |
| 100 mg/kgBB | ,201 | 5 | ,200\* | ,964 | 5 | ,835 |
| 200 mg/kgBB | ,232 | 5 | ,200\* | ,905 | 5 | ,436 |
| 400 mg/kgBB | ,285 | 5 | ,200\* | ,867 | 5 | ,256 |
| Pembanding | ,328 | 5 | ,084 | ,846 | 5 | ,181 |
| menit 90 | Cmc | ,283 | 5 | ,200\* | ,902 | 5 | ,420 |
| 100 mg/kgBB | ,213 | 5 | ,200\* | ,940 | 5 | ,669 |
| 200 mg/kgBB | ,248 | 5 | ,200\* | ,855 | 5 | ,212 |
| 400 mg/kgBB | ,166 | 5 | ,200\* | ,976 | 5 | ,910 |
| Pembanding | ,236 | 5 | ,200\* | ,941 | 5 | ,671 |
| menit 120 | Cmc | ,318 | 5 | ,111 | ,780 | 5 | ,055 |
| 100 mg/kgBB | ,213 | 5 | ,200\* | ,939 | 5 | ,656 |
| 200 mg/kgBB | ,237 | 5 | ,200\* | ,961 | 5 | ,814 |
| 400 mg/kgBB | ,281 | 5 | ,200\* | ,821 | 5 | ,118 |
| Pembanding | ,173 | 5 | ,200\* | ,958 | 5 | ,794 |
| menit 180 | Cmc | ,211 | 5 | ,200\* | ,968 | 5 | ,864 |
| 100 mg/kgBB | ,167 | 5 | ,200\* | ,961 | 5 | ,815 |
| 200 mg/kgBB | ,179 | 5 | ,200\* | ,962 | 5 | ,823 |
| 400 mg/kgBB | ,258 | 5 | ,200\* | ,925 | 5 | ,563 |
| Pembanding | ,191 | 5 | ,200\* | ,958 | 5 | ,794 |
| menit 240 | Cmc | ,167 | 5 | ,200\* | ,961 | 5 | ,815 |
| 100 mg/kgBB | ,241 | 5 | ,200\* | ,903 | 5 | ,427 |
| 200 mg/kgBB | ,237 | 5 | ,200\* | ,961 | 5 | ,814 |
| 400 mg/kgBB | ,184 | 5 | ,200\* | ,978 | 5 | ,921 |
| Pembanding | ,138 | 5 | ,200\* | ,997 | 5 | ,998 |
| menit 300 | Cmc | ,310 | 5 | ,131 | ,871 | 5 | ,272 |
| 100 mg/kgBB | ,220 | 5 | ,200\* | ,889 | 5 | ,350 |
| 200 mg/kgBB | ,259 | 5 | ,200\* | ,888 | 5 | ,345 |
| 400 mg/kgBB | ,227 | 5 | ,200\* | ,910 | 5 | ,468 |
| Pembanding | ,243 | 5 | ,200\* | ,922 | 5 | ,544 |
| menit 360 | Cmc | ,195 | 5 | ,200\* | ,894 | 5 | ,378 |
| 100 mg/kgBB | ,273 | 5 | ,200\* | ,855 | 5 | ,211 |
| 200 mg/kgBB | ,166 | 5 | ,200\* | ,968 | 5 | ,860 |
| 400 mg/kgBB | ,225 | 5 | ,200\* | ,921 | 5 | ,538 |
| Pembanding | ,273 | 5 | ,200\* | ,852 | 5 | ,201 |
| menit 420 | Cmc | ,231 | 5 | ,200\* | ,853 | 5 | ,204 |
| 100 mg/kgBB | ,223 | 5 | ,200\* | ,925 | 5 | ,565 |
| 200 mg/kgBB | ,221 | 5 | ,200\* | ,915 | 5 | ,501 |
| 400 mg/kgBB | ,242 | 5 | ,200\* | ,954 | 5 | ,763 |
| Pembanding | ,187 | 5 | ,200\* | ,924 | 5 | ,553 |
| \*. This is a lower bound of the true significance. | | | | | | | |
| a. Lilliefors Significance Correction | | | | | | | |

**Lampiran 20.** Tabel Hasil Deskriptif

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | | | | | |
|  | | **N** | **Mean** | **Std. Deviation** | **Std. Error** | **95% Confidence Interval for Mean** | | **Minimum** | **Maximum** |
| **Lower Bound** | **Upper Bound** |
| **sebelum induksi** | **cmc** | **5** | **81,40** | **7,127** | **3,187** | **72,55** | **90,25** | **72** | **92** |
| **100 mg/kgBB** | **5** | **79,80** | **13,198** | **5,903** | **63,41** | **96,19** | **60** | **96** |
| **200 mg/kgBB** | **5** | **92,80** | **9,576** | **4,283** | **80,91** | **104,69** | **81** | **102** |
| **400 mg/kgBB** | **5** | **88,40** | **10,065** | **4,501** | **75,90** | **100,90** | **74** | **98** |
| **pembanding** | **5** | **95,40** | **5,595** | **2,502** | **88,45** | **102,35** | **86** | **101** |
| **Total** | **25** | **87,56** | **10,677** | **2,135** | **83,15** | **91,97** | **60** | **102** |
| **setelah induksi** | **cmc** | **5** | **178,60** | **11,653** | **5,212** | **164,13** | **193,07** | **160** | **192** |
| **100 mg/kgBB** | **5** | **200,40** | **12,740** | **5,697** | **184,58** | **216,22** | **180** | **212** |
| **200 mg/kgBB** | **5** | **192,20** | **11,756** | **5,257** | **177,60** | **206,80** | **174** | **204** |
| **400 mg/kgBB** | **5** | **186,60** | **12,915** | **5,776** | **170,56** | **202,64** | **176** | **203** |
| **pembanding** | **5** | **194,20** | **14,255** | **6,375** | **176,50** | **211,90** | **173** | **211** |
| **Total** | **25** | **190,40** | **13,817** | **2,763** | **184,70** | **196,10** | **160** | **212** |
| **menit 30** | **cmc** | **5** | **186,80** | **8,786** | **3,929** | **175,89** | **197,71** | **176** | **198** |
| **100 mg/kgBB** | **5** | **164,60** | **15,126** | **6,765** | **145,82** | **183,38** | **140** | **176** |
| **200 mg/kgBB** | **5** | **164,20** | **9,284** | **4,152** | **152,67** | **175,73** | **150** | **173** |
| **400 mg/kgBB** | **5** | **151,80** | **8,786** | **3,929** | **140,89** | **162,71** | **140** | **160** |
| **pembanding** | **5** | **52,40** | **5,413** | **2,421** | **45,68** | **59,12** | **44** | **57** |
| **Total** | **25** | **143,96** | **48,978** | **9,796** | **123,74** | **164,18** | **44** | **198** |
| **menit 60** | **cmc** | **5** | **195,00** | **13,802** | **6,173** | **177,86** | **212,14** | **179** | **215** |
| **100 mg/kgBB** | **5** | **145,00** | **7,969** | **3,564** | **135,11** | **154,89** | **136** | **157** |
| **200 mg/kgBB** | **5** | **137,60** | **11,845** | **5,297** | **122,89** | **152,31** | **122** | **149** |
| **400 mg/kgBB** | **5** | **132,80** | **5,805** | **2,596** | **125,59** | **140,01** | **127** | **140** |
| **pembanding** | **5** | **60,40** | **5,683** | **2,542** | **53,34** | **67,46** | **55** | **70** |
| **Total** | **25** | **134,16** | **44,818** | **8,964** | **115,66** | **152,66** | **55** | **215** |
| **menit 90** | **cmc** | **5** | **204,60** | **7,570** | **3,385** | **195,20** | **214,00** | **197** | **215** |
| **100 mg/kgBB** | **5** | **138,20** | **7,694** | **3,441** | **128,65** | **147,75** | **129** | **150** |
| **200 mg/kgBB** | **5** | **131,60** | **4,278** | **1,913** | **126,29** | **136,91** | **127** | **136** |
| **400 mg/kgBB** | **5** | **124,80** | **7,155** | **3,200** | **115,92** | **133,68** | **115** | **133** |
| **pembanding** | **5** | **62,40** | **6,914** | **3,092** | **53,82** | **70,98** | **55** | **73** |
| **Total** | **25** | **132,32** | **46,529** | **9,306** | **113,11** | **151,53** | **55** | **215** |
| **menit 120** | **cmc** | **5** | **223,20** | **4,550** | **2,035** | **217,55** | **228,85** | **220** | **231** |
| **100 mg/kgBB** | **5** | **129,20** | **2,775** | **1,241** | **125,75** | **132,65** | **125** | **132** |
| **200 mg/kgBB** | **5** | **120,60** | **1,140** | **,510** | **119,18** | **122,02** | **119** | **122** |
| **400 mg/kgBB** | **5** | **116,20** | **3,834** | **1,715** | **111,44** | **120,96** | **110** | **119** |
| **pembanding** | **5** | **78,40** | **3,209** | **1,435** | **74,42** | **82,38** | **75** | **83** |
| **Total** | **25** | **133,52** | **49,181** | **9,836** | **113,22** | **153,82** | **75** | **231** |
| **menit 180** | **cmc** | **5** | **252,80** | **9,731** | **4,352** | **240,72** | **264,88** | **240** | **267** |
| **100 mg/kgBB** | **5** | **115,60** | **4,930** | **2,205** | **109,48** | **121,72** | **110** | **122** |
| **200 mg/kgBB** | **5** | **111,80** | **2,864** | **1,281** | **108,24** | **115,36** | **108** | **115** |
| **400 mg/kgBB** | **5** | **108,00** | **2,449** | **1,095** | **104,96** | **111,04** | **105** | **111** |
| **pembanding** | **5** | **100,40** | **3,209** | **1,435** | **96,42** | **104,38** | **96** | **104** |
| **Total** | **25** | **137,72** | **59,153** | **11,831** | **113,30** | **162,14** | **96** | **267** |
| **menit 240** | **cmc** | **5** | **261,60** | **4,930** | **2,205** | **255,48** | **267,72** | **256** | **268** |
| **100 mg/kgBB** | **5** | **96,40** | **2,702** | **1,208** | **93,05** | **99,75** | **92** | **99** |
| **200 mg/kgBB** | **5** | **93,40** | **1,140** | **,510** | **91,98** | **94,82** | **92** | **95** |
| **400 mg/kgBB** | **5** | **75,00** | **3,391** | **1,517** | **70,79** | **79,21** | **71** | **80** |
| **pembanding** | **5** | **102,80** | **5,263** | **2,354** | **96,27** | **109,33** | **96** | **110** |
| **Total** | **25** | **125,84** | **70,005** | **14,001** | **96,94** | **154,74** | **71** | **268** |
| **menit 300** | **cmc** | **5** | **257,80** | **2,168** | **,970** | **255,11** | **260,49** | **255** | **260** |
| **100 mg/kgBB** | **5** | **102,40** | **5,030** | **2,249** | **96,15** | **108,65** | **97** | **108** |
| **200 mg/kgBB** | **5** | **95,40** | **3,912** | **1,749** | **90,54** | **100,26** | **89** | **99** |
| **400 mg/kgBB** | **5** | **92,00** | **6,364** | **2,846** | **84,10** | **99,90** | **84** | **99** |
| **pembanding** | **5** | **116,80** | **3,271** | **1,463** | **112,74** | **120,86** | **112** | **120** |
| **Total** | **25** | **132,88** | **64,462** | **12,892** | **106,27** | **159,49** | **84** | **260** |
| **menit 360** | **cmc** | **5** | **258,60** | **20,157** | **9,014** | **233,57** | **283,63** | **241** | **290** |
| **100 mg/kgBB** | **5** | **113,60** | **8,820** | **3,945** | **102,65** | **124,55** | **99** | **121** |
| **200 mg/kgBB** | **5** | **103,20** | **9,365** | **4,188** | **91,57** | **114,83** | **92** | **115** |
| **400 mg/kgBB** | **5** | **98,40** | **12,178** | **5,446** | **83,28** | **113,52** | **86** | **115** |
| **pembanding** | **5** | **122,20** | **2,683** | **1,200** | **118,87** | **125,53** | **120** | **126** |
| **Total** | **25** | **139,20** | **62,489** | **12,498** | **113,41** | **164,99** | **86** | **290** |
| **menit 420** | **cmc** | **5** | **259,40** | **8,112** | **3,628** | **249,33** | **269,47** | **246** | **266** |
| **100 mg/kgBB** | **5** | **111,60** | **7,127** | **3,187** | **102,75** | **120,45** | **104** | **121** |
| **200 mg/kgBB** | **5** | **112,20** | **2,588** | **1,158** | **108,99** | **115,41** | **109** | **115** |
| **400 mg/kgBB** | **5** | **110,20** | **8,228** | **3,680** | **99,98** | **120,42** | **98** | **120** |
| **pembanding** | **5** | **129,40** | **5,595** | **2,502** | **122,45** | **136,35** | **124** | **138** |
| **Total** | **25** | **144,56** | **59,354** | **11,871** | **120,06** | **169,06** | **98** | **266** |

**Lampiran 21.** Tabel Hasil Homogenitas

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test of Homogeneity of Variances** | | | | |
|  | Levene Statistic | df1 | df2 | Sig. |
| sebelum induksi | 1,181 | 4 | 20 | ,349 |
| setelah induksi | ,224 | 4 | 20 | ,922 |
| menit 30 | 1,547 | 4 | 20 | ,227 |
| menit 60 | 1,344 | 4 | 20 | ,288 |
| menit 90 | ,441 | 4 | 20 | ,778 |
| menit 120 | 1,161 | 4 | 20 | ,358 |
| menit 180 | 1,746 | 4 | 20 | ,179 |
| menit 240 | 1,943 | 4 | 20 | ,143 |
| menit 300 | 2,259 | 4 | 20 | ,099 |
| menit 360 | 2,728 | 4 | 20 | ,058 |
| menit 420 | ,960 | 4 | 20 | ,451 |

**Lampiran 22.** Tabel Hasil Anova

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | | |
|  | | Sum of Squares | df | Mean Square | F | Sig. |
| sebelum induksi | Between Groups | 938,960 | 4 | 234,740 | 2,612 | ,066 |
| Within Groups | 1797,200 | 20 | 89,860 |  |  |
| Total | 2736,160 | 24 |  |  |  |
| setelah induksi | Between Groups | 1356,800 | 4 | 339,200 | 2,103 | ,118 |
| Within Groups | 3225,200 | 20 | 161,260 |  |  |
| Total | 4582,000 | 24 |  |  |  |
| menit 30 | Between Groups | 55578,160 | 4 | 13894,540 | 139,308 | ,000 |
| Within Groups | 1994,800 | 20 | 99,740 |  |  |
| Total | 57572,960 | 24 |  |  |  |
| menit 60 | Between Groups | 46366,160 | 4 | 11591,540 | 125,913 | ,000 |
| Within Groups | 1841,200 | 20 | 92,060 |  |  |
| Total | 48207,360 | 24 |  |  |  |
| menit 90 | Between Groups | 51024,240 | 4 | 12756,060 | 272,799 | ,000 |
| Within Groups | 935,200 | 20 | 46,760 |  |  |
| Total | 51959,440 | 24 |  |  |  |
| menit 120 | Between Groups | 57831,440 | 4 | 14457,860 | 1321,559 | ,000 |
| Within Groups | 218,800 | 20 | 10,940 |  |  |
| Total | 58050,240 | 24 |  |  |  |
| menit 180 | Between Groups | 83403,040 | 4 | 20850,760 | 726,507 | ,000 |
| Within Groups | 574,000 | 20 | 28,700 |  |  |
| Total | 83977,040 | 24 |  |  |  |
| menit 240 | Between Groups | 117326,960 | 4 | 29331,740 | 2034,101 | ,000 |
| Within Groups | 288,400 | 20 | 14,420 |  |  |
| Total | 117615,360 | 24 |  |  |  |
| menit 300 | Between Groups | 99342,640 | 4 | 24835,660 | 1286,822 | ,000 |
| Within Groups | 386,000 | 20 | 19,300 |  |  |
| Total | 99728,640 | 24 |  |  |  |
| menit 360 | Between Groups | 90806,800 | 4 | 22701,700 | 156,068 | ,000 |
| Within Groups | 2909,200 | 20 | 145,460 |  |  |
| Total | 93716,000 | 24 |  |  |  |
| menit 420 | Between Groups | 83660,960 | 4 | 20915,240 | 470,428 | ,000 |
| Within Groups | 889,200 | 20 | 44,460 |  |  |
| Total | 84550,160 | 24 |  |  |  |

**Lampiran 23.** Tabel Hasil Post Hoc Tests

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Multiple Comparisons** | | | | | | | |
| Tukey HSD | | | | | | | |
| Dependent Variable | (I) perlakuan | (J) perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
| Lower Bound | Upper Bound |
| sebelum induksi | cmc | 100 mg/kgBB | 1,600 | 5,995 | ,999 | -16,34 | 19,54 |
| 200 mg/kgBB | -11,400 | 5,995 | ,348 | -29,34 | 6,54 |
| 400 mg/kgBB | -7,000 | 5,995 | ,769 | -24,94 | 10,94 |
| pembanding | -14,000 | 5,995 | ,175 | -31,94 | 3,94 |
| 100 mg/kgBB | Cmc | -1,600 | 5,995 | ,999 | -19,54 | 16,34 |
| 200 mg/kgBB | -13,000 | 5,995 | ,232 | -30,94 | 4,94 |
| 400 mg/kgBB | -8,600 | 5,995 | ,614 | -26,54 | 9,34 |
| pembanding | -15,600 | 5,995 | ,108 | -33,54 | 2,34 |
| 200 mg/kgBB | Cmc | 11,400 | 5,995 | ,348 | -6,54 | 29,34 |
| 100 mg/kgBB | 13,000 | 5,995 | ,232 | -4,94 | 30,94 |
| 400 mg/kgBB | 4,400 | 5,995 | ,946 | -13,54 | 22,34 |
| pembanding | -2,600 | 5,995 | ,992 | -20,54 | 15,34 |
| 400 mg/kgBB | Cmc | 7,000 | 5,995 | ,769 | -10,94 | 24,94 |
| 100 mg/kgBB | 8,600 | 5,995 | ,614 | -9,34 | 26,54 |
| 200 mg/kgBB | -4,400 | 5,995 | ,946 | -22,34 | 13,54 |
| pembanding | -7,000 | 5,995 | ,769 | -24,94 | 10,94 |
| pembanding | Cmc | 14,000 | 5,995 | ,175 | -3,94 | 31,94 |
| 100 mg/kgBB | 15,600 | 5,995 | ,108 | -2,34 | 33,54 |
| 200 mg/kgBB | 2,600 | 5,995 | ,992 | -15,34 | 20,54 |
| 400 mg/kgBB | 7,000 | 5,995 | ,769 | -10,94 | 24,94 |
| setelah induksi | cmc | 100 mg/kgBB | -21,800 | 8,031 | ,087 | -45,83 | 2,23 |
| 200 mg/kgBB | -13,600 | 8,031 | ,460 | -37,63 | 10,43 |
| 400 mg/kgBB | -8,000 | 8,031 | ,854 | -32,03 | 16,03 |
| pembanding | -15,600 | 8,031 | ,328 | -39,63 | 8,43 |
| 100 mg/kgBB | Cmc | 21,800 | 8,031 | ,087 | -2,23 | 45,83 |
| 200 mg/kgBB | 8,200 | 8,031 | ,843 | -15,83 | 32,23 |
| 400 mg/kgBB | 13,800 | 8,031 | ,446 | -10,23 | 37,83 |
| pembanding | 6,200 | 8,031 | ,936 | -17,83 | 30,23 |
| 200 mg/kgBB | Cmc | 13,600 | 8,031 | ,460 | -10,43 | 37,63 |
| 100 mg/kgBB | -8,200 | 8,031 | ,843 | -32,23 | 15,83 |
| 400 mg/kgBB | 5,600 | 8,031 | ,955 | -18,43 | 29,63 |
| pembanding | -2,000 | 8,031 | ,999 | -26,03 | 22,03 |
| 400 mg/kgBB | Cmc | 8,000 | 8,031 | ,854 | -16,03 | 32,03 |
| 100 mg/kgBB | -13,800 | 8,031 | ,446 | -37,83 | 10,23 |
| 200 mg/kgBB | -5,600 | 8,031 | ,955 | -29,63 | 18,43 |
| pembanding | -7,600 | 8,031 | ,875 | -31,63 | 16,43 |
| pembanding | Cmc | 15,600 | 8,031 | ,328 | -8,43 | 39,63 |
| 100 mg/kgBB | -6,200 | 8,031 | ,936 | -30,23 | 17,83 |
| 200 mg/kgBB | 2,000 | 8,031 | ,999 | -22,03 | 26,03 |
| 400 mg/kgBB | 7,600 | 8,031 | ,875 | -16,43 | 31,63 |
| menit 30 | cmc | 100 mg/kgBB | 22,200\* | 6,316 | ,017 | 3,30 | 41,10 |
| 200 mg/kgBB | 22,600\* | 6,316 | ,014 | 3,70 | 41,50 |
| 400 mg/kgBB | 35,000\* | 6,316 | ,000 | 16,10 | 53,90 |
| pembanding | 134,400\* | 6,316 | ,000 | 115,50 | 153,30 |
| 100 mg/kgBB | Cmc | -22,200\* | 6,316 | ,017 | -41,10 | -3,30 |
| 200 mg/kgBB | ,400 | 6,316 | 1,000 | -18,50 | 19,30 |
| 400 mg/kgBB | 12,800 | 6,316 | ,290 | -6,10 | 31,70 |
| pembanding | 112,200\* | 6,316 | ,000 | 93,30 | 131,10 |
| 200 mg/kgBB | Cmc | -22,600\* | 6,316 | ,014 | -41,50 | -3,70 |
| 100 mg/kgBB | -,400 | 6,316 | 1,000 | -19,30 | 18,50 |
| 400 mg/kgBB | 12,400 | 6,316 | ,319 | -6,50 | 31,30 |
| pembanding | 111,800\* | 6,316 | ,000 | 92,90 | 130,70 |
| 400 mg/kgBB | Cmc | -35,000\* | 6,316 | ,000 | -53,90 | -16,10 |
| 100 mg/kgBB | -12,800 | 6,316 | ,290 | -31,70 | 6,10 |
| 200 mg/kgBB | -12,400 | 6,316 | ,319 | -31,30 | 6,50 |
| pembanding | 99,400\* | 6,316 | ,000 | 80,50 | 118,30 |
| pembanding | Cmc | -134,400\* | 6,316 | ,000 | -153,30 | -115,50 |
| 100 mg/kgBB | -112,200\* | 6,316 | ,000 | -131,10 | -93,30 |
| 200 mg/kgBB | -111,800\* | 6,316 | ,000 | -130,70 | -92,90 |
| 400 mg/kgBB | -99,400\* | 6,316 | ,000 | -118,30 | -80,50 |
| menit 60 | cmc | 100 mg/kgBB | 50,000\* | 6,068 | ,000 | 31,84 | 68,16 |
| 200 mg/kgBB | 57,400\* | 6,068 | ,000 | 39,24 | 75,56 |
| 400 mg/kgBB | 62,200\* | 6,068 | ,000 | 44,04 | 80,36 |
| pembanding | 134,600\* | 6,068 | ,000 | 116,44 | 152,76 |
| 100 mg/kgBB | Cmc | -50,000\* | 6,068 | ,000 | -68,16 | -31,84 |
| 200 mg/kgBB | 7,400 | 6,068 | ,741 | -10,76 | 25,56 |
| 400 mg/kgBB | 12,200 | 6,068 | ,297 | -5,96 | 30,36 |
| pembanding | 84,600\* | 6,068 | ,000 | 66,44 | 102,76 |
| 200 mg/kgBB | Cmc | -57,400\* | 6,068 | ,000 | -75,56 | -39,24 |
| 100 mg/kgBB | -7,400 | 6,068 | ,741 | -25,56 | 10,76 |
| 400 mg/kgBB | 4,800 | 6,068 | ,930 | -13,36 | 22,96 |
| pembanding | 77,200\* | 6,068 | ,000 | 59,04 | 95,36 |
| 400 mg/kgBB | Cmc | -62,200\* | 6,068 | ,000 | -80,36 | -44,04 |
| 100 mg/kgBB | -12,200 | 6,068 | ,297 | -30,36 | 5,96 |
| 200 mg/kgBB | -4,800 | 6,068 | ,930 | -22,96 | 13,36 |
| pembanding | 72,400\* | 6,068 | ,000 | 54,24 | 90,56 |
| pembanding | Cmc | -134,600\* | 6,068 | ,000 | -152,76 | -116,44 |
| 100 mg/kgBB | -84,600\* | 6,068 | ,000 | -102,76 | -66,44 |
| 200 mg/kgBB | -77,200\* | 6,068 | ,000 | -95,36 | -59,04 |
| 400 mg/kgBB | -72,400\* | 6,068 | ,000 | -90,56 | -54,24 |
| menit 90 | cmc | 100 mg/kgBB | 66,400\* | 4,325 | ,000 | 53,46 | 79,34 |
| 200 mg/kgBB | 73,000\* | 4,325 | ,000 | 60,06 | 85,94 |
| 400 mg/kgBB | 79,800\* | 4,325 | ,000 | 66,86 | 92,74 |
| pembanding | 142,200\* | 4,325 | ,000 | 129,26 | 155,14 |
| 100 mg/kgBB | Cmc | -66,400\* | 4,325 | ,000 | -79,34 | -53,46 |
| 200 mg/kgBB | 6,600 | 4,325 | ,558 | -6,34 | 19,54 |
| 400 mg/kgBB | 13,400\* | 4,325 | ,040 | ,46 | 26,34 |
| pembanding | 75,800\* | 4,325 | ,000 | 62,86 | 88,74 |
| 200 mg/kgBB | Cmc | -73,000\* | 4,325 | ,000 | -85,94 | -60,06 |
| 100 mg/kgBB | -6,600 | 4,325 | ,558 | -19,54 | 6,34 |
| 400 mg/kgBB | 6,800 | 4,325 | ,531 | -6,14 | 19,74 |
| pembanding | 69,200\* | 4,325 | ,000 | 56,26 | 82,14 |
| 400 mg/kgBB | Cmc | -79,800\* | 4,325 | ,000 | -92,74 | -66,86 |
| 100 mg/kgBB | -13,400\* | 4,325 | ,040 | -26,34 | -,46 |
| 200 mg/kgBB | -6,800 | 4,325 | ,531 | -19,74 | 6,14 |
| pembanding | 62,400\* | 4,325 | ,000 | 49,46 | 75,34 |
| pembanding | Cmc | -142,200\* | 4,325 | ,000 | -155,14 | -129,26 |
| 100 mg/kgBB | -75,800\* | 4,325 | ,000 | -88,74 | -62,86 |
| 200 mg/kgBB | -69,200\* | 4,325 | ,000 | -82,14 | -56,26 |
| 400 mg/kgBB | -62,400\* | 4,325 | ,000 | -75,34 | -49,46 |
| menit 120 | cmc | 100 mg/kgBB | 94,000\* | 2,092 | ,000 | 87,74 | 100,26 |
| 200 mg/kgBB | 102,600\* | 2,092 | ,000 | 96,34 | 108,86 |
| 400 mg/kgBB | 107,000\* | 2,092 | ,000 | 100,74 | 113,26 |
| pembanding | 144,800\* | 2,092 | ,000 | 138,54 | 151,06 |
| 100 mg/kgBB | Cmc | -94,000\* | 2,092 | ,000 | -100,26 | -87,74 |
| 200 mg/kgBB | 8,600\* | 2,092 | ,004 | 2,34 | 14,86 |
| 400 mg/kgBB | 13,000\* | 2,092 | ,000 | 6,74 | 19,26 |
| pembanding | 50,800\* | 2,092 | ,000 | 44,54 | 57,06 |
| 200 mg/kgBB | Cmc | -102,600\* | 2,092 | ,000 | -108,86 | -96,34 |
| 100 mg/kgBB | -8,600\* | 2,092 | ,004 | -14,86 | -2,34 |
| 400 mg/kgBB | 4,400 | 2,092 | ,257 | -1,86 | 10,66 |
| pembanding | 42,200\* | 2,092 | ,000 | 35,94 | 48,46 |
| 400 mg/kgBB | Cmc | -107,000\* | 2,092 | ,000 | -113,26 | -100,74 |
| 100 mg/kgBB | -13,000\* | 2,092 | ,000 | -19,26 | -6,74 |
| 200 mg/kgBB | -4,400 | 2,092 | ,257 | -10,66 | 1,86 |
| pembanding | 37,800\* | 2,092 | ,000 | 31,54 | 44,06 |
| pembanding | Cmc | -144,800\* | 2,092 | ,000 | -151,06 | -138,54 |
| 100 mg/kgBB | -50,800\* | 2,092 | ,000 | -57,06 | -44,54 |
| 200 mg/kgBB | -42,200\* | 2,092 | ,000 | -48,46 | -35,94 |
| 400 mg/kgBB | -37,800\* | 2,092 | ,000 | -44,06 | -31,54 |
| menit 180 | cmc | 100 mg/kgBB | 137,200\* | 3,388 | ,000 | 127,06 | 147,34 |
| 200 mg/kgBB | 141,000\* | 3,388 | ,000 | 130,86 | 151,14 |
| 400 mg/kgBB | 144,800\* | 3,388 | ,000 | 134,66 | 154,94 |
| pembanding | 152,400\* | 3,388 | ,000 | 142,26 | 162,54 |
| 100 mg/kgBB | Cmc | -137,200\* | 3,388 | ,000 | -147,34 | -127,06 |
| 200 mg/kgBB | 3,800 | 3,388 | ,793 | -6,34 | 13,94 |
| 400 mg/kgBB | 7,600 | 3,388 | ,205 | -2,54 | 17,74 |
| pembanding | 15,200\* | 3,388 | ,002 | 5,06 | 25,34 |
| 200 mg/kgBB | Cmc | -141,000\* | 3,388 | ,000 | -151,14 | -130,86 |
| 100 mg/kgBB | -3,800 | 3,388 | ,793 | -13,94 | 6,34 |
| 400 mg/kgBB | 3,800 | 3,388 | ,793 | -6,34 | 13,94 |
| pembanding | 11,400\* | 3,388 | ,023 | 1,26 | 21,54 |
| 400 mg/kgBB | Cmc | -144,800\* | 3,388 | ,000 | -154,94 | -134,66 |
| 100 mg/kgBB | -7,600 | 3,388 | ,205 | -17,74 | 2,54 |
| 200 mg/kgBB | -3,800 | 3,388 | ,793 | -13,94 | 6,34 |
| pembanding | 7,600 | 3,388 | ,205 | -2,54 | 17,74 |
| pembanding | Cmc | -152,400\* | 3,388 | ,000 | -162,54 | -142,26 |
| 100 mg/kgBB | -15,200\* | 3,388 | ,002 | -25,34 | -5,06 |
| 200 mg/kgBB | -11,400\* | 3,388 | ,023 | -21,54 | -1,26 |
| 400 mg/kgBB | -7,600 | 3,388 | ,205 | -17,74 | 2,54 |
| menit 240 | cmc | 100 mg/kgBB | 165,200\* | 2,402 | ,000 | 158,01 | 172,39 |
| 200 mg/kgBB | 168,200\* | 2,402 | ,000 | 161,01 | 175,39 |
| 400 mg/kgBB | 186,600\* | 2,402 | ,000 | 179,41 | 193,79 |
| pembanding | 158,800\* | 2,402 | ,000 | 151,61 | 165,99 |
| 100 mg/kgBB | Cmc | -165,200\* | 2,402 | ,000 | -172,39 | -158,01 |
| 200 mg/kgBB | 3,000 | 2,402 | ,724 | -4,19 | 10,19 |
| 400 mg/kgBB | 21,400\* | 2,402 | ,000 | 14,21 | 28,59 |
| pembanding | -6,400 | 2,402 | ,096 | -13,59 | ,79 |
| 200 mg/kgBB | Cmc | -168,200\* | 2,402 | ,000 | -175,39 | -161,01 |
| 100 mg/kgBB | -3,000 | 2,402 | ,724 | -10,19 | 4,19 |
| 400 mg/kgBB | 18,400\* | 2,402 | ,000 | 11,21 | 25,59 |
| pembanding | -9,400\* | 2,402 | ,007 | -16,59 | -2,21 |
| 400 mg/kgBB | Cmc | -186,600\* | 2,402 | ,000 | -193,79 | -179,41 |
| 100 mg/kgBB | -21,400\* | 2,402 | ,000 | -28,59 | -14,21 |
| 200 mg/kgBB | -18,400\* | 2,402 | ,000 | -25,59 | -11,21 |
| pembanding | -27,800\* | 2,402 | ,000 | -34,99 | -20,61 |
| pembanding | Cmc | -158,800\* | 2,402 | ,000 | -165,99 | -151,61 |
| 100 mg/kgBB | 6,400 | 2,402 | ,096 | -,79 | 13,59 |
| 200 mg/kgBB | 9,400\* | 2,402 | ,007 | 2,21 | 16,59 |
| 400 mg/kgBB | 27,800\* | 2,402 | ,000 | 20,61 | 34,99 |
| menit 300 | cmc | 100 mg/kgBB | 155,400\* | 2,778 | ,000 | 147,09 | 163,71 |
| 200 mg/kgBB | 162,400\* | 2,778 | ,000 | 154,09 | 170,71 |
| 400 mg/kgBB | 165,800\* | 2,778 | ,000 | 157,49 | 174,11 |
| pembanding | 141,000\* | 2,778 | ,000 | 132,69 | 149,31 |
| 100 mg/kgBB | Cmc | -155,400\* | 2,778 | ,000 | -163,71 | -147,09 |
| 200 mg/kgBB | 7,000 | 2,778 | ,126 | -1,31 | 15,31 |
| 400 mg/kgBB | 10,400\* | 2,778 | ,010 | 2,09 | 18,71 |
| pembanding | -14,400\* | 2,778 | ,000 | -22,71 | -6,09 |
| 200 mg/kgBB | Cmc | -162,400\* | 2,778 | ,000 | -170,71 | -154,09 |
| 100 mg/kgBB | -7,000 | 2,778 | ,126 | -15,31 | 1,31 |
| 400 mg/kgBB | 3,400 | 2,778 | ,738 | -4,91 | 11,71 |
| pembanding | -21,400\* | 2,778 | ,000 | -29,71 | -13,09 |
| 400 mg/kgBB | Cmc | -165,800\* | 2,778 | ,000 | -174,11 | -157,49 |
| 100 mg/kgBB | -10,400\* | 2,778 | ,010 | -18,71 | -2,09 |
| 200 mg/kgBB | -3,400 | 2,778 | ,738 | -11,71 | 4,91 |
| pembanding | -24,800\* | 2,778 | ,000 | -33,11 | -16,49 |
| pembanding | Cmc | -141,000\* | 2,778 | ,000 | -149,31 | -132,69 |
| 100 mg/kgBB | 14,400\* | 2,778 | ,000 | 6,09 | 22,71 |
| 200 mg/kgBB | 21,400\* | 2,778 | ,000 | 13,09 | 29,71 |
| 400 mg/kgBB | 24,800\* | 2,778 | ,000 | 16,49 | 33,11 |
| menit 360 | cmc | 100 mg/kgBB | 145,000\* | 7,628 | ,000 | 122,17 | 167,83 |
| 200 mg/kgBB | 155,400\* | 7,628 | ,000 | 132,57 | 178,23 |
| 400 mg/kgBB | 160,200\* | 7,628 | ,000 | 137,37 | 183,03 |
| pembanding | 136,400\* | 7,628 | ,000 | 113,57 | 159,23 |
| 100 mg/kgBB | Cmc | -145,000\* | 7,628 | ,000 | -167,83 | -122,17 |
| 200 mg/kgBB | 10,400 | 7,628 | ,657 | -12,43 | 33,23 |
| 400 mg/kgBB | 15,200 | 7,628 | ,305 | -7,63 | 38,03 |
| pembanding | -8,600 | 7,628 | ,790 | -31,43 | 14,23 |
| 200 mg/kgBB | Cmc | -155,400\* | 7,628 | ,000 | -178,23 | -132,57 |
| 100 mg/kgBB | -10,400 | 7,628 | ,657 | -33,23 | 12,43 |
| 400 mg/kgBB | 4,800 | 7,628 | ,969 | -18,03 | 27,63 |
| pembanding | -19,000 | 7,628 | ,133 | -41,83 | 3,83 |
| 400 mg/kgBB | Cmc | -160,200\* | 7,628 | ,000 | -183,03 | -137,37 |
| 100 mg/kgBB | -15,200 | 7,628 | ,305 | -38,03 | 7,63 |
| 200 mg/kgBB | -4,800 | 7,628 | ,969 | -27,63 | 18,03 |
| pembanding | -23,800\* | 7,628 | ,038 | -46,63 | -,97 |
| pembanding | Cmc | -136,400\* | 7,628 | ,000 | -159,23 | -113,57 |
| 100 mg/kgBB | 8,600 | 7,628 | ,790 | -14,23 | 31,43 |
| 200 mg/kgBB | 19,000 | 7,628 | ,133 | -3,83 | 41,83 |
| 400 mg/kgBB | 23,800\* | 7,628 | ,038 | ,97 | 46,63 |
| menit 420 | cmc | 100 mg/kgBB | 147,800\* | 4,217 | ,000 | 135,18 | 160,42 |
| 200 mg/kgBB | 147,200\* | 4,217 | ,000 | 134,58 | 159,82 |
| 400 mg/kgBB | 149,200\* | 4,217 | ,000 | 136,58 | 161,82 |
| pembanding | 130,000\* | 4,217 | ,000 | 117,38 | 142,62 |
| 100 mg/kgBB | Cmc | -147,800\* | 4,217 | ,000 | -160,42 | -135,18 |
| 200 mg/kgBB | -,600 | 4,217 | 1,000 | -13,22 | 12,02 |
| 400 mg/kgBB | 1,400 | 4,217 | ,997 | -11,22 | 14,02 |
| pembanding | -17,800\* | 4,217 | ,003 | -30,42 | -5,18 |
| 200 mg/kgBB | Cmc | -147,200\* | 4,217 | ,000 | -159,82 | -134,58 |
| 100 mg/kgBB | ,600 | 4,217 | 1,000 | -12,02 | 13,22 |
| 400 mg/kgBB | 2,000 | 4,217 | ,989 | -10,62 | 14,62 |
| pembanding | -17,200\* | 4,217 | ,005 | -29,82 | -4,58 |
| 400 mg/kgBB | Cmc | -149,200\* | 4,217 | ,000 | -161,82 | -136,58 |
| 100 mg/kgBB | -1,400 | 4,217 | ,997 | -14,02 | 11,22 |
| 200 mg/kgBB | -2,000 | 4,217 | ,989 | -14,62 | 10,62 |
| pembanding | -19,200\* | 4,217 | ,002 | -31,82 | -6,58 |
| pembanding | Cmc | -130,000\* | 4,217 | ,000 | -142,62 | -117,38 |
| 100 mg/kgBB | 17,800\* | 4,217 | ,003 | 5,18 | 30,42 |
| 200 mg/kgBB | 17,200\* | 4,217 | ,005 | 4,58 | 29,82 |
| 400 mg/kgBB | 19,200\* | 4,217 | ,002 | 6,58 | 31,82 |
| \*. The mean difference is significant at the 0.05 level. | | | | | | | |

**Lampiran 24.** Tabel Hasil tukey

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **sebelum induksi** | | | | | | | | | | | | | | | | | | | |
| Tukey HSDa | | | | | | | | | | | | | | | | | | | |
| Perlakuan | | | | | N | | | | | Subset for alpha = 0.05 | | | | | | | | | |
| 1 | | | | | | | | | |
| 100 mg/kgBB | | | | | 5 | | | | | 79,80 | | | | | | | | | |
| Cmc | | | | | 5 | | | | | 81,40 | | | | | | | | | |
| 400 mg/kgBB | | | | | 5 | | | | | 88,40 | | | | | | | | | |
| 200 mg/kgBB | | | | | 5 | | | | | 92,80 | | | | | | | | | |
| Pembanding | | | | | 5 | | | | | 95,40 | | | | | | | | | |
| Sig. | | | | |  | | | | | ,108 | | | | | | | | | |
| **setelah induksi** | | | | | | | | | | | | | | | | | | | |
| Tukey HSDa | | | | | | | | | | | | | | | | | | | |
| Perlakuan | | | | | N | | | | | Subset for alpha = 0.05 | | | | | | | | | |
| 1 | | | | | | | | | |
| Cmc | | | | | 5 | | | | | 178,60 | | | | | | | | | |
| 400 mg/kgBB | | | | | 5 | | | | | 186,60 | | | | | | | | | |
| 200 mg/kgBB | | | | | 5 | | | | | 192,20 | | | | | | | | | |
| Pembanding | | | | | 5 | | | | | 194,20 | | | | | | | | | |
| 100 mg/kgBB | | | | | 5 | | | | | 200,40 | | | | | | | | | |
| Sig. | | | | |  | | | | | ,087 | | | | | | | | | |
| **menit 30** | | | | | | | | | | | | | | | | | | | |
| Tukey HSDa | | | | | | | | | | | | | | | | | | | |
| Perlakuan | | N | | | | Subset for alpha = 0.05 | | | | | | | | | | | | | |
| 1 | | | | | 2 | | | | | 3 | | | |
| Pembanding | | 5 | | | | 52,40 | | | | |  | | | | |  | | | |
| 400 mg/kgBB | | 5 | | | |  | | | | | 151,80 | | | | |  | | | |
| 200 mg/kgBB | | 5 | | | |  | | | | | 164,20 | | | | |  | | | |
| 100 mg/kgBB | | 5 | | | |  | | | | | 164,60 | | | | |  | | | |
| Cmc | | 5 | | | |  | | | | |  | | | | | 186,80 | | | |
| Sig. | |  | | | | 1,000 | | | | | ,290 | | | | | 1,000 | | | |
| **menit 60** | | | | | | | | | | | | | | | | | | | |
| Tukey HSDa | | | | | | | | | | | | | | | | | | | |
| Perlakuan | N | | | | | | Subset for alpha = 0.05 | | | | | | | | | | | | |
| 1 | | | | | 2 | | | | 3 | | | |
| Pembanding | 5 | | | | | | 60,40 | | | | |  | | | |  | | | |
| 400 mg/kgBB | 5 | | | | | |  | | | | | 132,80 | | | |  | | | |
| 200 mg/kgBB | 5 | | | | | |  | | | | | 137,60 | | | |  | | | |
| 100 mg/kgBB | 5 | | | | | |  | | | | | 145,00 | | | |  | | | |
| Cmc | 5 | | | | | |  | | | | |  | | | | 195,00 | | | |
| Sig. |  | | | | | | 1,000 | | | | | ,297 | | | | 1,000 | | | |
| **menit 90** | | | | | | | | | | | | | | | | | | | | |
| Tukey HSDa | | | | | | | | | | | | | | | | | | | | |
| perlakuan | | N | | | | Subset for alpha = 0.05 | | | | | | | | | | | | | | |
| 1 | | | | | 2 | | | | 3 | | | | 4 | |
| pembanding | | 5 | | | | 62,40 | | | | |  | | | |  | | | |  | |
| 400 mg/kgBB | | 5 | | | |  | | | | | 124,80 | | | |  | | | |  | |
| 200 mg/kgBB | | 5 | | | |  | | | | | 131,60 | | | | 131,60 | | | |  | |
| 100 mg/kgBB | | 5 | | | |  | | | | |  | | | | 138,20 | | | |  | |
| cmc | | 5 | | | |  | | | | |  | | | |  | | | | 204,60 | |
| Sig. | |  | | | | 1,000 | | | | | ,531 | | | | ,558 | | | | 1,000 | |
| **menit 120** | | | | | | | | | | | | | | | | | | | | |
| Tukey HSDa | | | | | | | | | | | | | | | | | | | | |
| perlakuan | | N | | | | Subset for alpha = 0.05 | | | | | | | | | | | | | | |
| 1 | | | | | 2 | | | | 3 | | | | 4 | |
| pembanding | | 5 | | | | 78,40 | | | | |  | | | |  | | | |  | |
| 400 mg/kgBB | | 5 | | | |  | | | | | 116,20 | | | |  | | | |  | |
| 200 mg/kgBB | | 5 | | | |  | | | | | 120,60 | | | |  | | | |  | |
| 100 mg/kgBB | | 5 | | | |  | | | | |  | | | | 129,20 | | | |  | |
| cmc | | 5 | | | |  | | | | |  | | | |  | | | | 223,20 | |
| Sig. | |  | | | | 1,000 | | | | | ,257 | | | | 1,000 | | | | 1,000 | |
| **menit 180** | | | | | | | | | | | | | | | | | | | | | |
| Tukey HSDa | | | | | | | | | | | | | | | | | | | | | |
| perlakuan | | | N | | | | | Subset for alpha = 0.05 | | | | | | | | | | | | | |
| 1 | | | | | 2 | | | | 3 | | | | |
| pembanding | | | 5 | | | | | 100,40 | | | | |  | | | |  | | | | |
| 400 mg/kgBB | | | 5 | | | | | 108,00 | | | | | 108,00 | | | |  | | | | |
| 200 mg/kgBB | | | 5 | | | | |  | | | | | 111,80 | | | |  | | | | |
| 100 mg/kgBB | | | 5 | | | | |  | | | | | 115,60 | | | |  | | | | |
| cmc | | | 5 | | | | |  | | | | |  | | | | 252,80 | | | | |
| Sig. | | |  | | | | | ,205 | | | | | ,205 | | | | 1,000 | | | | |
| **menit 240** | | | | | | | | | | | | | | | | | | | | | |
| Tukey HSDa | | | | | | | | | | | | | | | | | | | | | |
| perlakuan | | N | | | | Subset for alpha = 0.05 | | | | | | | | | | | | | | | |
| 1 | | | | | 2 | | | | 3 | | | | 4 | | |
| 400 mg/kgBB | | 5 | | | | 75,00 | | | | |  | | | |  | | | |  | | |
| 200 mg/kgBB | | 5 | | | |  | | | | | 93,40 | | | |  | | | |  | | |
| 100 mg/kgBB | | 5 | | | |  | | | | | 96,40 | | | | 96,40 | | | |  | | |
| pembanding | | 5 | | | |  | | | | |  | | | | 102,80 | | | |  | | |
| cmc | | 5 | | | |  | | | | |  | | | |  | | | | 261,60 | | |
| Sig. | |  | | | | 1,000 | | | | | ,724 | | | | ,096 | | | | 1,000 | | |
| **menit 300** | | | | | | | | | | | | | | | | | | | | | |
| Tukey HSDa | | | | | | | | | | | | | | | | | | | | | |
| perlakuan | | N | | | | Subset for alpha = 0.05 | | | | | | | | | | | | | | | |
| 1 | | | | | 2 | | | | 3 | | | | 4 | | |
| 400 mg/kgBB | | 5 | | | | 92,00 | | | | |  | | | |  | | | |  | | |
| 200 mg/kgBB | | 5 | | | | 95,40 | | | | | 95,40 | | | |  | | | |  | | |
| 100 mg/kgBB | | 5 | | | |  | | | | | 102,40 | | | |  | | | |  | | |
| pembanding | | 5 | | | |  | | | | |  | | | | 116,80 | | | |  | | |
| cmc | | 5 | | | |  | | | | |  | | | |  | | | | 257,80 | | |
| Sig. | |  | | | | ,738 | | | | | ,126 | | | | 1,000 | | | | 1,000 | | |
| **menit 360** | | | | | | | | | | | | | | | | | | | | | |
| Tukey HSDa | | | | | | | | | | | | | | | | | | | | | |
| perlakuan | | | | N | | | | | Subset for alpha = 0.05 | | | | | | | | | | | | |
| 1 | | | | | 2 | | | | 3 | | | |
| 400 mg/kgBB | | | | 5 | | | | | 98,40 | | | | |  | | | |  | | | |
| 200 mg/kgBB | | | | 5 | | | | | 103,20 | | | | | 103,20 | | | |  | | | |
| 100 mg/kgBB | | | | 5 | | | | | 113,60 | | | | | 113,60 | | | |  | | | |
| pembanding | | | | 5 | | | | |  | | | | | 122,20 | | | |  | | | |
| cmc | | | | 5 | | | | |  | | | | |  | | | | 258,60 | | | |
| Sig. | | | |  | | | | | ,305 | | | | | ,133 | | | | 1,000 | | | |
| **menit 420** | | | | | | | | | | | | | | | | | | | | | |
| Tukey HSDa | | | | | | | | | | | | | | | | | | | | | |
| perlakuan | | | | N | | | | | Subset for alpha = 0.05 | | | | | | | | | | | | |
| 1 | | | | | 2 | | | | 3 | | | |
| 400 mg/kgBB | | | | 5 | | | | | 110,20 | | | | |  | | | |  | | | |
| 100 mg/kgBB | | | | 5 | | | | | 111,60 | | | | |  | | | |  | | | |
| 200 mg/kgBB | | | | 5 | | | | | 112,20 | | | | |  | | | |  | | | |
| pembanding | | | | 5 | | | | |  | | | | | 129,40 | | | |  | | | |
| cmc | | | | 5 | | | | |  | | | | |  | | | | 259,40 | | | |
| Sig. | | | |  | | | | | ,989 | | | | | 1,000 | | | | 1,000 | | | |