**Lampiran 1.** Hasil Identifikasi Tanaman Aren



**Lampiran 2.** Hasil Etical Clearen



**Lampiran 3.** Tumbuhan Aren Dan Air Nira



Tumbuhan aren



Air nira

**Lampiran 4.** Hasil Skrining Fitokimia Air Nira

 

 Alkaloid (-) Tanin (-)

 

 Flavanoid (-) Saponin (+)

**Lampiran 4.** (lanjutan)

 

 Steroid tertefenoid (-) Antrakuinon (+)

**Lampiran 5.** Pembedahan dan Pengamatan Panjang Lintasan Norit

 

Proses pembedahan Kontrol (-) Aquadest

 

Kontrol (+) Bisacodyl 2 mg/20 g BB Air nira 0,4 ml/20 g BB

**Lampiran 5.** (lanjutan)

  

 Air nira 0,5ml/20 g BB Air nira 0,6ml/20 g BB

**Lampiran 6.** Bagan Alir Penelitian

Air nira

Skrining fitokimia

* Alkaloid
* Flavonoid
* Tanin
* Steroid / triterpenoid
* Saponin
* Glikosida Antrakinon

Hasil

Uji Efek Laksatif

**Lampiran 7.** Bagan Alir Pengujian Efek Laksatif

25 ekor mencit jantan

Diaklimatisasi selama 2 minggu

Diberi penandaan pada setiap ekor mencit

Ditimbang berat mencit satu-persatu

Diinduksi gambir 3 g/kg BB secara oral selama 2 hari

Dipuasakan selama 18 jam

Diukur panjang lintasan usus yang dilalui norit dan panjang keseluruhan usus

Dihitung persentase rasio lintasan norit

Persentase rasio lintasan norit

Semua mencit dimatikan lalu dibedah

Didiamkan selama 30 menit

Diberi suspensi norit 1%

Didiamkan selama 45 menit

Air nira 0,6 ml/20 g BB

Air nira 0,4 ml/20 g BB

Air nira 0,5 ml/20 g BB

Kontrol (+)

Bisacodyl

2 mg/20 g BB

Aquadest(-)

Setiap mencit diberi perlakuan sesuai dengan kelompoknya

**Lampiran 8.** Perhitungan Dosis

1. Dosis pemberian gambir
2. Dosis gambir = 3 g/kg BB
3. Dosis gambir pada mencit = $\frac{3 g}{1000 g}$ x 20 g

 = 0,06 g

 = 60 mg

1. Konsentrasi infusa gambir 20% = $\frac{20 g}{100 ml}$

 = $\frac{20000 mg}{100 ml}$

 = 200 mg/ml

1. Volume pemberian gambir pada mencit = $\frac{60 mg}{200 mg/ml}$

 = 0,3 ml/20 g BB mencit

1. Dosis pemberian bisacodyl
2. Dosis bisacodyl = 100 mg/kg BB
3. Dosis bisacodyl pada mencit = $\frac{100 mg}{1000 g}$ x 20 g

 = $\frac{0,1 g}{1000 g}$ x 20 g

 = 0,002 g

 = 2 mg

**Lampiran 8.** (lanjutan)

1. Konsentrasi suspensi bisacodyl 1% = $\frac{1 g}{100 ml}$

 = $\frac{1000 mg}{100 ml}$

 = 10 mg/ml

1. Volume pemberian bisacodyl pada mencit = $\frac{2 mg}{10 mg/ml}$

 = 0,2 ml/20 g BB mencit

1. Dosis pemberian Air nira
2. Air nira = 0,4 ml/20 g BB
3. Air nira = 0,5 ml/20 g BB
4. Air nira = 0,6 ml/20 g BB
5. Dosis pemberian Norit 1%

BB Mencit = 20 g

Volume pemberian = $\frac{1 g}{100 ml}$ x 20 g

 = 0,2 ml/20 g BB

**Lampiran 9.** Hasil persentase rasio lintasan norit

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No. Mencit | Perlakuan | BB Mencit (g) | A (cm) | Rata-rata ± SD | B (cm) | Rata-rata ± SD | Rasio Lintasan Norit (%) | Rata-rata |
| 1 | Kontrol (-) Aquadest  | 23 | 10 | 8,2± 1,30 | 43 | 36,5 ± 3,71 | 23,25 | 22,51 ± 2,69 |
| 2 | 23 | 7 | 35 | 20 |
| 3 | 20 | 9 | 34 | 26,47 |
| 4 | 20 | 8 | 35 | 22,85 |
| 5 | 22 | 7 | 35 | 20 |
| 6 | Kontrol (+) Bisacodyl 2 mg/20 g BB | 23 | 25 | 27  ± 3,53 | 35 | 43,6 ± 5,22 | 71,42 | 62,22 ± 7,13  |
| 7 | 20 | 32 | 49 | 65,30 |
| 8 | 26 | 29 | 46 | 63,04 |
| 9 | 23 | 23 | 44 | 52,27 |
| 10 | 23 | 26 | 44 | 59,09 |
| 11 | Air Nira 0,4 ml/20 g BB | 23 | 21 | 19,8 ± 2,16 | 41 | 45 ± 3,12 | 51,21 | 44,12 ± 5,28  |
| 12 | 24 | 18 | 45 | 40 |
| 13 | 25 | 22 | 50 | 44 |
| 14 | 23 | 17 | 44,5 | 38,20 |
| 15 | 26 | 21 | 44,5 | 47,19 |
| 16 | Air Nira 0,5 ml/20 g BB | 23 | 22,5 | 27,3 ± 3,38  | 47 | 45,8 ± 2,28 | 47,87 | 59,67 ± 7,29  |
| 17 | 26 | 31 | 46 | 67,39 |
| 18 | 26 | 27 | 46 | 58,69 |
| 19 | 21 | 30 | 48 | 62,5 |
| 20 | 23 | 26 | 42 | 61,90 |
| 21 | Air Nira 0,6 ml/20 g BB | 24 | 31 | 33±2 | 43,5 | 47 ± 2,73 | 71,26 | 70,21 ± 1,25  |
| 22 | 23 | 35 | 49,5 | 70,70 |
| 23 | 26 | 33 | 46,5 | 70,96 |
| 24 | 26 | 35 | 50 | 70 |
| 25 | 23 | 31 | 45,5 | 68,13 |

**Lampiran 10.** Perhitungan Persentase Rasio Lintasan Norit

Contoh:

|  |  |  |
| --- | --- | --- |
| Perlakuan | Panjang usus yang dilalui norit (cm) | Panjang usus seluruhnya (cm) |
| Kontrol (-) Aquadest | 10 | 43 |
| Kontrol (+) Bisacodyl 2mg/20 g BB | 25 | 35 |
| Air Nira 0,4 ml/20 g BB | 21 | 41 |
| Air Nira 0,5 ml/20 g BB | 22,5 | 47 |
| Air Nira 0,6 ml/20 g BB | 31 | 43,5 |

Persentase rasio lintasan norit dihitung dengan rumus sebagai berikut:

$\frac{panjang usus yang dilalui norit}{panjang usus seluruhnya}$ x 100%

1. Kontrol (-) Aquadest = $\frac{10}{43}$ x 100% = 23,25%
2. Kontrol (+) Bisacodyl 2mg/20 g BB = $\frac{25}{35}$ x 100% = 71,42%
3. Air Nira 0,4 ml/20 g BB = $\frac{21}{41}$ x 100% = 51,21%
4. Air Nira 0,5 ml/20 g BB = $\frac{22,5}{47}$ x 100% = 47,87%
5. Air Nira 0,6 ml/20 g BB = $\frac{31}{43,5}$ x 100% = 71,26%

**Lampiran 11.** Hasil uji ANOVA

1. Hasil uji Normalitas

|  |
| --- |
| **Tests of Normality** |
| Kelompok Perlakuan | Kolmogorov-Smirnova | Shapiro-Wilk |
| Statistic | Df | Sig. | Statistic | df | Sig. |
| Persentase panjang lintasan norit | Kontrol (-) aquadest | .225 | 5 | .200\* | .893 | 5 | .373 |
| Kontrol (+) Bisacodyl 2mg/20 g BB | .146 | 5 | .200\* | .994 | 5 | .992 |
| Air nira 0,4 ml/ 20 g BB | .182 | 5 | .200\* | .965 | 5 | .841 |
| Air nira 0,5 ml/ 20 g BB | .247 | 5 | .200\* | .907 | 5 | .451 |
| Air nira 0,6 ml/ 20 g BB | .252 | 5 | .200\* | .852 | 5 | .200 |
| \*. This is a lower bound of the true significance. |
| a. Lilliefors Significance Correction |

1. Hasil uji Homogenitas

|  |
| --- |
| **Test of Homogeneity of Variances** |
| Persentase panjang lintasan norit |
| Levene Statistic | df1 | df2 | Sig. |
| 1.964 | 4 | 20 | .139 |

1. Hasil uji ANOVA

|  |
| --- |
| **ANOVA** |
| Persentase panjang lintasan norit |
|  | Sum of Squares | Df | Mean Square | F | Sig. |
| Between Groups | 7130.816 | 4 | 1782.704 | 63.292 | .000 |
| Within Groups | 563.327 | 20 | 28.166 |  |  |
| Total | 7694.144 | 24 |  |  |  |

**Lampiran 12.** Hasil Uji Lanjut *Tukey*

|  |
| --- |
| **Multiple Comparisons** |
| Dependent Variable: Persentase panjang lintasan norit  Tukey HSD |
| (I) Kelompok Perlakuan | (J) Kelompok Perlakuan | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval |
| Lower Bound | Upper Bound |
| Kontrol (-) Aquadest | Kontrol (+) Bisacodyl 2mg/20 g BB | -39.71000\* | 3.35657 | .000 | -49.7541 | -29.6659 |
| Air Nira 0,4 ml/ 20 g BB | -21.60600\* | 3.35657 | .000 | -31.6501 | -11.5619 |
| Air Nira 0,5 ml/ 20 g BB | -37.15600\* | 3.35657 | .000 | -47.2001 | -27.1119 |
| Air Nira 0,6 ml/ 20 g BB | -47.69600\* | 3.35657 | .000 | -57.7401 | -37.6519 |
| Kontrol (+) Bisacodyl 2mg/20 g BB | Kontrol (-) Aquadest | 39.71000\* | 3.35657 | .000 | 29.6659 | 49.7541 |
| Air Nira 0,4 ml/ 20 g BB | 18.10400\* | 3.35657 | .000 | 8.0599 | 28.1481 |
| Air Nira 0,5 ml/ 20 g BB | 2.55400 | 3.35657 | .939 | -7.4901 | 12.5981 |
| Air Nira 0,6 ml/ 20 g BB | -7.98600 | 3.35657 | .162 | -18.0301 | 2.0581 |
| Air Nira 0,4 ml/ 20 g BB | Kontrol (-) Aquadest | 21.60600\* | 3.35657 | .000 | 11.5619 | 31.6501 |
| Kontrol (+) Bisacodyl 2mg/20 g BB | -18.10400\* | 3.35657 | .000 | -28.1481 | -8.0599 |
| Air Nira 0,5 ml/ 20 g BB | -15.55000\* | 3.35657 | .001 | -25.5941 | -5.5059 |
| Air Nira 0,6 ml/ 20 g BB | -26.09000\* | 3.35657 | .000 | -36.1341 | -16.0459 |
| Air Nira 0,5 ml/ 20 g BB | Kontrol (-) Aquadest | 37.15600\* | 3.35657 | .000 | 27.1119 | 47.2001 |
| Kontrol (+) Bisacodyl 2mg/20 g BB | -2.55400 | 3.35657 | .939 | -12.5981 | 7.4901 |
| Air Nira 0,4 ml/ 20 g BB | 15.55000\* | 3.35657 | .001 | 5.5059 | 25.5941 |
| Air Nira 0,6 ml/ 20 g BB | -10.54000\* | 3.35657 | .037 | -20.5841 | -.4959 |
| Air Nira 0,6 ml/ 20 g BB | Kontrol (-) Aquadest | 47.69600\* | 3.35657 | .000 | 37.6519 | 57.7401 |
| Kontrol (+) Bisacodyl 2mg/20 g BB | 7.98600 | 3.35657 | .162 | -2.0581 | 18.0301 |
| Air Nira 0,4 ml/ 20 g BB | 26.09000\* | 3.35657 | .000 | 16.0459 | 36.1341 |
| Air Nira 0,5 ml/ 20 g BB | 10.54000\* | 3.35657 | .037 | .4959 | 20.5841 |
| \*. The mean difference is significant at the 0.05 level. |

|  |
| --- |
| **Lampiran 12.** (lanjutan)**Persentase panjang lintasan norit** |
| Kelompok Perlakuan | N | Subset for alpha = 0.05 |
| 1 | 2 | 3 | 4 |
| Tukey HSDa | Kontrol (-) aquadest | 5 | 22.5140 |  |  |  |
| Air nira 0,4 ml/ 20 g BB | 5 |  | 44.1200 |  |  |
| Air nira 0,5 ml/ 20 g BB | 5 |  |  | 59.6700 |  |
| Kontrol (+) Bisacodyl 2mg/20 g BB | 5 |  |  | 62.2240 | 62.2240 |
| Air nira 0,6 ml/ 20 g BB | 5 |  |  |  | 70.2100 |
| Sig. |  | 1.000 | 1.000 | .939 | .162 |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 5.000. |