## LAMPIRAN A

## PERHITUNGAN SUSUT PENGERINGAN DAN KADAR ABU SERBUK

Perhitungan Susut Pengeringan Serbuk Daun Sangitan

| Replikasi | Hasil susut pengeringan (%b/b) |
|---|---|
| 1 | 8,6 |
| 2 | 8,5 |
| 3 | 8,6 |
| Rata-rata | 8,6 |

Perhitungan Penetapan Kadar Abu Serbuk Daun Sangitan

| Replikasi | W serbuk (gram) | $W_{(krus\ kosong+abu)}$ (gram) | $W_{(krus\ kosong)}$ (gram) | W abu (gram) | Kadar abu (% b/b) |
|---|---|---|---|---|---|
| 1 | 2,1430 | 20,9617 | 20,8825 | 0,0792 | 3,70 |
| 2 | 2,1626 | 19,5881 | 19,4753 | 0,1128 | 5,22 |
| 3 | 2,1328 | 20,2824 | 20,1922 | 0,0902 | 4,23 |
| | | | | | Rata-rata=4,4 |

$$\text{Kadar abu} = \left( \frac{\text{W (krus kosong+abu)} - \text{W (krus kosong)}}{\text{W simplisia}} \right) \times 100\%$$

Contoh perhitungan kadar abu:

$$\text{Kadar abu} = \frac{\text{W (krus + abu) (g)} - \text{W krus kosong (g)}}{\text{W simplisia (g)}} \times 100\%$$

$$= \frac{20,9617 - 20,8825}{2,1430} \times 100\%$$

$$= 3,70\%$$

**LAMPIRAN B**

**PERHITUNGAN KADAR ABU EKSTRAK, KADAR SARI EKSTRAK YANG LARUT DALAM ETANOL**

Perhitungan Penetapan Kadar Abu Ekstrak Daun Sangitan

| Replikasi | W ekstrak (gram) | W (krus kosong+abu) (gram) | W (krus kosong) (gram) | W abu (gram) | Kadar abu (% b/b) |
|---|---|---|---|---|---|
| 1 | 2,1346 | 19,9302 | 19,5963 | 0,3339 | 15,64 |
| 2 | 2,1781 | 19,1232 | 18,7541 | 0,3718 | 17,07 |
| 3 | 2,3183 | 19,0877 | 19,4391 | 0,3442 | 14,85 |
| | | | | | Rata-rata= 16,12 |

$$\text{Kadar abu} = \left[ \frac{\text{W (krus kosong+abu)} - \text{W (krus kosong)}}{\text{W simplisia}} \right] \times 100\%$$

Contoh perhitungan kadar abu:

$$\text{Kadar abu} = \frac{\text{W (krus + abu) (g)} - \text{W krus kosong (g)}}{\text{W simplisia (g)}} \times 100\%$$

$$= \frac{19,9302 - 19,5963}{2,1346} \times 100\%$$

$$= 15,64\%$$

Perhitungan Kadar Sari Ekstrak yang Larut dalam Etanol

| Replikasi | W ekstrak (gram) | $W_{(cawan+sari)}$ (gram) | $W_{(cawan\ kosong)}$ (gram) | W sari (gram) | Kadar sari yang larut dalam etanol (%b/b) |
|---|---|---|---|---|---|
| 1 | 5,0191 | 52,8436 | 52,7219 | 0,1217 | 12,12 |
| 2 | 5,0164 | 52,8385 | 52,7223 | 0,1162 | 11,58 |
| 3 | 5,0113 | 52,8572 | 52,7225 | 0,1347 | 13,43 |
| | | | | | Rata-rata= 12,38 |

$$\text{Kadar abu} = \left[\frac{\text{W (cawan+sari)} - \text{W (cawan kosong)}}{\text{W ekstrak}}\right] \times \frac{100}{20} \times 100\%$$

$$\text{Randemen ekstrak} = \frac{\text{berat ekstrak kental}}{\text{berat simplisia}} \times 100\%$$

$$= \frac{115,0781}{1000} \times 100\%$$

$$= 11,51\ \%\ \text{b/b}$$

**LAMPIRAN C**

**PERHITUNGAN HARGA RF PADA PEMERIKSAAN SECARA KLT**

$$Rf = \frac{\text{Jarak yang ditempuh oleh zat}}{\text{Jarak yang ditempuh oleh fase gerak}}$$

| Zat Berkhasiat | Pengamatan | Noda | $Rf_1$ | $Rf_2$ | $Rf_3$ |
|---|---|---|---|---|---|
| Flavonoid | UV 254 nm | A | $\frac{3,7}{8} = 0,46$ | $\frac{5,0}{8} = 0,62$ | $\frac{5,7}{8} = 0,71$ |
| | | B | $\frac{3,7}{8} = 0,46$ | $\frac{5,0}{8} = 0,62$ | $\frac{5,7}{8} = 0,71$ |
| | | C | – | $\frac{5,0}{8} = 0,62$ | – |
| | UV 366 nm | A | $\frac{3,7}{8} = 0,46$ | $\frac{5,0}{8} = 0,62$ | $\frac{5,7}{8} = 0,71$ |
| | | B | $\frac{3,7}{8} = 0,46$ | $\frac{5,0}{8} = 0,62$ | $\frac{5,7}{8} = 0,71$ |
| | | C | – | $\frac{5,0}{8} = 0,62$ | – |
| | Penampak Noda | A | – | $\frac{5,0}{8} = 0,62$ | – |
| | | B | – | $\frac{5,0}{8} = 0,62$ | – |
| | | C | – | $\frac{5,0}{8} = 0,62$ | – |
| Saponin | UV 254 nm | A | $\frac{1,2}{8} = 0,15$ | $\frac{4,9}{8} = 0,15$ | $\frac{7,2}{8} = 0,9$ |



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| | | | | |
|---|---|---|---|---|
| | B | $\frac{1,2}{8} = \frac{0,15}{8}$ | $\frac{4,9}{8} = \frac{0,15}{8}$ | $\frac{7,2}{8} = 0,9$ |
| | C | $\frac{1,2}{8} = \frac{0,15}{8}$ | $\frac{4,9}{8} = \frac{0,15}{8}$ | – |
| UV 366 nm | A | $\frac{1,2}{8} = \frac{0,15}{8}$ | $\frac{4,9}{8} = \frac{0,15}{8}$ | $\frac{7,2}{8} = 0,9$ |
| | B | $\frac{1,2}{8} = \frac{0,15}{8}$ | $\frac{4,9}{8} = \frac{0,15}{8}$ | $\frac{7,2}{8} = 0,9$ |
| | C | $\frac{1,2}{8} = \frac{0,15}{8}$ | $\frac{4,9}{8} = \frac{0,15}{8}$ | – |
| Penampak Noda | A | $\frac{1,2}{8} = \frac{0,15}{8}$ | $\frac{4,9}{8} = \frac{0,15}{8}$ | $\frac{7,2}{8} = 0,9$ |
| | B | $\frac{1,2}{8} = \frac{0,15}{8}$ | $\frac{4,9}{8} = \frac{0,15}{8}$ | $\frac{7,2}{8} = 0,9$ |
| | C | $\frac{1,2}{8} = \frac{0,15}{8}$ | $\frac{4,9}{8} = \frac{0,1}{8}$ | – |

**LAMPIRAN D**

**PERHITUNGAN STATISTIK**

**PERHITUNGAN ANAVA VOLUME TELAPAK KAKI TIKUS PADA JAM KE-0**

**Descriptives**

VOLUME

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound | | |
| pga3 | 5 | 20.0960 | 5.2542 | 2.3498 | 13.5720 | 26.6200 | 12.56 | 25.12 |
| fenil | 5 | 16.3280 | 5.6170 | 2.5120 | 9.3536 | 23.3024 | 12.56 | 25.12 |
| e1,0 | 5 | 18.8400 | 8.8813 | 3.9718 | 7.8125 | 29.8675 | 12.56 | 31.40 |
| e1,5 | 5 | 17.5840 | 6.8794 | 3.0766 | 9.0421 | 26.1259 | 12.56 | 25.12 |
| e2,0 | 5 | 17.5840 | 6.8794 | 3.0766 | 9.0421 | 26.1259 | 12.56 | 25.12 |
| Total | 25 | 18.0864 | 6.3632 | 1.2726 | 15.4598 | 20.7130 | 12.56 | 31.40 |

**Test of Homogeneity of Variances**

VOLUME

| Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|
| 1.937 | 4 | 20 | .143 |

**ANOVA**

VOLUME

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 41.016 | 4 | 10.254 | .220 | .924 |
| Within Groups | 930.746 | 20 | 46.537 | | |
| Total | 971.762 | 24 | | | |

## Post Hoc Test

**Multiple Comparisons**

Dependent Variable: VOLUME
Tukey HSD

| (I) FORMULA | (J) FORMULA | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| pga3 | fenil | 3.7680 | 4.3145 | .903 | -9.1427 | 16.6787 |
| | e1,0 | 1.2560 | 4.3145 | .998 | -11.6547 | 14.1667 |
| | e1,5 | 2.5120 | 4.3145 | .976 | -10.3987 | 15.4227 |
| | e2,0 | 2.5120 | 4.3145 | .976 | -10.3987 | 15.4227 |
| fenil | pga3 | -3.7680 | 4.3145 | .903 | -16.6787 | 9.1427 |
| | e1,0 | -2.5120 | 4.3145 | .976 | -15.4227 | 10.3987 |
| | e1,5 | -1.2560 | 4.3145 | .998 | -14.1667 | 11.6547 |
| | e2,0 | -1.2560 | 4.3145 | .998 | -14.1667 | 11.6547 |
| e1,0 | pga3 | -1.2560 | 4.3145 | .998 | -14.1667 | 11.6547 |
| | fenil | 2.5120 | 4.3145 | .976 | -10.3987 | 15.4227 |
| | e1,5 | 1.2560 | 4.3145 | .998 | -11.6547 | 14.1667 |
| | e2,0 | 1.2560 | 4.3145 | .998 | -11.6547 | 14.1667 |
| e1,5 | pga3 | -2.5120 | 4.3145 | .976 | -15.4227 | 10.3987 |
| | fenil | 1.2560 | 4.3145 | .998 | -11.6547 | 14.1667 |
| | e1,0 | -1.2560 | 4.3145 | .998 | -14.1667 | 11.6547 |
| | e2,0 | .0000 | 4.3145 | 1.000 | -12.9107 | 12.9107 |
| e2,0 | pga3 | -2.5120 | 4.3145 | .976 | -15.4227 | 10.3987 |
| | fenil | 1.2560 | 4.3145 | .998 | -11.6547 | 14.1667 |
| | e1,0 | -1.2560 | 4.3145 | .998 | -14.1667 | 11.6547 |
| | e1,5 | .0000 | 4.3145 | 1.000 | -12.9107 | 12.9107 |

**LAMPIRAN E**

**PERHITUNGAN ANAVA VOLUME TELAPAK KAKI TIKUS PADA JAM KE-2**

**Descriptives**

VOLUME

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound | | |
| pga3 | 5 | 28.8880 | 5.6170 | 2.5120 | 21.9136 | 35.8624 | 18.84 | 31.40 |
| fenil | 5 | 28.8880 | 5.6170 | 2.5120 | 21.9136 | 35.8624 | 25.12 | 37.68 |
| e1,0 | 5 | 31.4000 | 8.8813 | 3.9718 | 20.3725 | 42.4275 | 25.12 | 43.96 |
| e1,5 | 5 | 28.8880 | 5.6170 | 2.5120 | 21.9136 | 35.8624 | 25.12 | 37.68 |
| e2,0 | 5 | 30.1440 | 6.8794 | 3.0766 | 21.6021 | 38.6859 | 25.12 | 37.68 |
| Total | 25 | 29.6416 | 6.1531 | 1.2306 | 27.1017 | 32.1815 | 18.84 | 43.96 |

**Test of Homogeneity of Variances**

VOLUME

| Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|
| 1.581 | 4 | 20 | .218 |

**ANOVA**

VOLUME

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 25.241 | 4 | 6.310 | .143 | .964 |
| Within Groups | 883.420 | 20 | 44.171 | | |
| Total | 908.661 | 24 | | | |

**Post Hoc Tests**

**Multiple Comparisons**

Dependent Variable: VOLUME
Tukey HSD

| (I) FORMULA | (J) FORMULA | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| pga3 | fenil | .0000 | 4.2034 | 1.000 | -12.5782 | 12.5782 |
| | e1,0 | -2.5120 | 4.2034 | .974 | -15.0902 | 10.0662 |
| | e1,5 | .0000 | 4.2034 | 1.000 | -12.5782 | 12.5782 |
| | e2,0 | -1.2560 | 4.2034 | .998 | -13.8342 | 11.3222 |
| fenil | pga3 | .0000 | 4.2034 | 1.000 | -12.5782 | 12.5782 |
| | e1,0 | -2.5120 | 4.2034 | .974 | -15.0902 | 10.0662 |
| | e1,5 | .0000 | 4.2034 | 1.000 | -12.5782 | 12.5782 |
| | e2,0 | -1.2560 | 4.2034 | .998 | -13.8342 | 11.3222 |
| e1,0 | pga3 | 2.5120 | 4.2034 | .974 | -10.0662 | 15.0902 |
| | fenil | 2.5120 | 4.2034 | .974 | -10.0662 | 15.0902 |
| | e1,5 | 2.5120 | 4.2034 | .974 | -10.0662 | 15.0902 |
| | e2,0 | 1.2560 | 4.2034 | .998 | -11.3222 | 13.8342 |
| e1,5 | pga3 | .0000 | 4.2034 | 1.000 | -12.5782 | 12.5782 |
| | fenil | .0000 | 4.2034 | 1.000 | -12.5782 | 12.5782 |
| | e1,0 | -2.5120 | 4.2034 | .974 | -15.0902 | 10.0662 |
| | e2,0 | -1.2560 | 4.2034 | .998 | -13.8342 | 11.3222 |
| e2,0 | pga3 | 1.2560 | 4.2034 | .998 | -11.3222 | 13.8342 |
| | fenil | 1.2560 | 4.2034 | .998 | -11.3222 | 13.8342 |
| | e1,0 | -1.2560 | 4.2034 | .998 | -13.8342 | 11.3222 |
| | e1,5 | 1.2560 | 4.2034 | .998 | -11.3222 | 13.8342 |

**LAMPIRAN F**

**PERHITUNGAN ANAVA VOLUME TELAPAK KAKI TIKUS PADA JAM KE-4**

**Descriptives**

VOLUME

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound | | |
| pga3 | 5 | 32.6560 | 5.2542 | 2.3498 | 26.1320 | 39.1800 | 25.12 | 37.68 |
| fenil | 5 | 23.8640 | 5.2542 | 2.3498 | 17.3400 | 30.3880 | 18.84 | 31.40 |
| e1,0 | 5 | 27.6320 | 7.1603 | 3.2022 | 18.7413 | 36.5227 | 18.84 | 37.68 |
| e1,5 | 5 | 26.3760 | 5.2542 | 2.3498 | 19.8520 | 32.9000 | 18.84 | 31.40 |
| e2,0 | 5 | 27.6320 | 9.5241 | 4.2593 | 15.8063 | 39.4577 | 18.84 | 37.68 |
| Total | 25 | 27.6320 | 6.7832 | 1.3566 | 24.8320 | 30.4320 | 18.84 | 37.68 |

**Test of Homogeneity of Variances**

VOLUME

| Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|
| 1.700 | 4 | 20 | .189 |

**ANOVA**

VOLUME

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 205.080 | 4 | 51.270 | 1.140 | .366 |
| Within Groups | 899.196 | 20 | 44.960 | | |
| Total | 1104.275 | 24 | | | |



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## Post Hoc Tests

**Multiple Comparisons**

Dependent Variable: VOLUME
Tukey HSD

| (I) FORMULA | (J) FORMULA | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| pga3 | fenil | 8.7920 | 4.2407 | .270 | -3.8980 | 21.482() |
| | e1,0 | 5.0240 | 4.2407 | .760 | -7.6660 | 17.714() |
| | e1,5 | 6.2800 | 4.2407 | .586 | -6.4100 | 18.970() |
| | e2,0 | 5.0240 | 4.2407 | .760 | -7.6660 | 17.714() |
| fenil | pga3 | -8.7920 | 4.2407 | .270 | -21.4820 | 3.898() |
| | e1,0 | -3.7680 | 4.2407 | .898 | -16.4580 | 8.922() |
| | e1,5 | -2.5120 | 4.2407 | .975 | -15.2020 | 10.178() |
| | e2,0 | -3.7680 | 4.2407 | .898 | -16.4580 | 8.922() |
| e1,0 | pga3 | -5.0240 | 4.2407 | .760 | -17.7140 | 7.666() |
| | fenil | 3.7680 | 4.2407 | .898 | -8.9220 | 16.458() |
| | e1,5 | 1.2560 | 4.2407 | .998 | -11.4340 | 13.946() |
| | e2,0 | .0000 | 4.2407 | 1.000 | -12.6900 | 12.690() |
| e1,5 | pga3 | -6.2800 | 4.2407 | .586 | -18.9700 | 6.410() |
| | fenil | 2.5120 | 4.2407 | .975 | -10.1780 | 15.202() |
| | e1,0 | -1.2560 | 4.2407 | .998 | -13.9460 | 11.434() |
| | e2,0 | -1.2560 | 4.2407 | .998 | -13.9460 | 11.434() |
| e2,0 | pga3 | -5.0240 | 4.2407 | .760 | -17.7140 | 7.666() |
| | fenil | 3.7680 | 4.2407 | .898 | -8.9220 | 16.458() |
| | e1,0 | .0000 | 4.2407 | 1.000 | -12.6900 | 12.690() |
| | e1,5 | 1.2560 | 4.2407 | .998 | -11.4340 | 13.946() |

**LAMPIRAN G**

**PERHITUNGAN ANAVA VOLUME TELAPAK KAKI TIKUS PADA JAM KE-6**

**Descriptives**

VOLUME

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound | | |
| pga3 | 5 | 35.1680 | 5.6170 | 2.5120 | 28.1936 | 42.1424 | 25.12 | 37.63 |
| fenil | 5 | 21.3520 | 3.4397 | 1.5383 | 17.0811 | 25.6229 | 18.84 | 25.12 |
| e1,0 | 5 | 26.3760 | 8.1881 | 3.6618 | 16.2091 | 36.5429 | 18.84 | 37.63 |
| e1,5 | 5 | 23.8640 | 6.8794 | 3.0766 | 15.3221 | 32.4059 | 18.84 | 31.40 |
| e2,0 | 5 | 25.1200 | 6.2800 | 2.8085 | 17.3224 | 32.9176 | 18.84 | 31.40 |
| Total | 25 | 26.3760 | 7.4747 | 1.4949 | 23.2906 | 29.4614 | 18.84 | 37.63 |

**Test of Homogeneity of Variances**

VOLUME

| Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|
| 1.464 | 4 | 20 | .250 |

**ANOVA**

VOLUME

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 552.138 | 4 | 138.034 | 3.500 | .025 |
| Within Groups | 788.768 | 20 | 39.438 | | |
| Total | 1340.906 | 24 | | | |



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**Post Hoc Tests**

**Multiple Comparisons**

Dependent Variable: VOLUME
Tukey HSD

| (I) FORMULA | (J) FORMULA | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| pga3 | fenil | 13.8160* | 3.9718 | .018 | 1.9307 | 25.7013 |
| | e1,0 | 8.7920 | 3.9718 | .215 | -3.0933 | 20.6773 |
| | e1,5 | 11.3040 | 3.9718 | .067 | -.5813 | 23.1893 |
| | e2,0 | 10.0480 | 3.9718 | .123 | -1.8373 | 21.9333 |
| fenil | pga3 | -13.8160* | 3.9718 | .018 | -25.7013 | -1.9307 |
| | e1,0 | -5.0240 | 3.9718 | .715 | -16.9093 | 6.8613 |
| | e1,5 | -2.5120 | 3.9718 | .968 | -14.3973 | 9.3733 |
| | e2,0 | -3.7680 | 3.9718 | .874 | -15.6533 | 8.1173 |
| e1,0 | pga3 | -8.7920 | 3.9718 | .215 | -20.6773 | 3.0933 |
| | fenil | 5.0240 | 3.9718 | .715 | -6.8613 | 16.9093 |
| | e1,5 | 2.5120 | 3.9718 | .968 | -9.3733 | 14.3973 |
| | e2,0 | 1.2560 | 3.9718 | .998 | -10.6293 | 13.1413 |
| e1,5 | pga3 | -11.3040 | 3.9718 | .067 | -23.1893 | .5813 |
| | fenil | 2.5120 | 3.9718 | .968 | -9.3733 | 14.3973 |
| | e1,0 | -2.5120 | 3.9718 | .968 | -14.3973 | 9.3733 |
| | e2,0 | -1.2560 | 3.9718 | .998 | -13.1413 | 10.6293 |
| e2,0 | pga3 | -10.0480 | 3.9718 | .123 | -21.9333 | 1.8373 |
| | fenil | 3.7680 | 3.9718 | .874 | -8.1173 | 15.6533 |
| | e1,0 | -1.2560 | 3.9718 | .998 | -13.1413 | 10.6293 |
| | e1,5 | 1.2560 | 3.9718 | .998 | -10.6293 | 13.1413 |

*. The mean difference is significant at the .05 level.



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**LAMPIRAN H**

**PERHITUNGAN ANAVA VOLUME TELAPAK KAKI TIKUS PADA JAM KE-8**

**Descriptives**

VOLUME

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound | | |
| pga3 | 5 | 38.9360 | 5.2542 | 2.3498 | 32.4120 | 45.4600 | 31.40 | 43.96 |
| fenil | 5 | 16.3280 | 5.6170 | 2.5120 | 9.3536 | 23.3024 | 12.56 | 25.12 |
| e1,0 | 5 | 22.6080 | 8.4255 | 3.7680 | 12.1464 | 33.0696 | 12.56 | 31.40 |
| e1,5 | 5 | 18.8400 | 6.2800 | 2.8085 | 11.0424 | 26.6376 | 12.56 | 25.12 |
| e2,0 | 5 | 18.8400 | 6.2800 | 2.8085 | 11.0424 | 26.6376 | 12.56 | 25.12 |
| Total | 25 | 23.1104 | 10.2102 | 2.0420 | 18.8958 | 27.3250 | 12.56 | 43.96 |

**Test of Homogeneity of Variances**

VOLUME

| Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|
| .856 | 4 | 20 | .507 |

**ANOVA**

VOLUME

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 1665.878 | 4 | 416.470 | 9.962 | .000 |
| Within Groups | 836.094 | 20 | 41.805 | | |
| Total | 2501.972 | 24 | | | |

## Post Hoc Tests

**Multiple Comparisons**

Dependent Variable: VOLUME
Tukey HSD

| (I) FORMULA | (J) FORMULA | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| pga3 | fenil | 22.6080* | 4.0892 | .000 | 10.3714 | 34.8446 |
| | e1,0 | 16.3280* | 4.0892 | .006 | 4.0914 | 28.5646 |
| | e1,5 | 20.0960* | 4.0892 | .001 | 7.8594 | 32.3326 |
| | e2,0 | 20.0960* | 4.0892 | .001 | 7.8594 | 32.3326 |
| fenil | pga3 | -22.6080* | 4.0892 | .000 | -34.8446 | -10.3714 |
| | e1,0 | -6.2800 | 4.0892 | .553 | -18.5166 | 5.9566 |
| | e1,5 | -2.5120 | 4.0892 | .971 | -14.7486 | 9.7246 |
| | e2,0 | -2.5120 | 4.0892 | .971 | -14.7486 | 9.7246 |
| e1,0 | pga3 | -16.3280* | 4.0892 | .006 | -28.5646 | -4.0914 |
| | fenil | 6.2800 | 4.0892 | .553 | -5.9566 | 18.5166 |
| | e1,5 | 3.7680 | 4.0892 | .885 | -8.4686 | 16.0046 |
| | e2,0 | 3.7680 | 4.0892 | .885 | -8.4686 | 16.0046 |
| e1,5 | pga3 | -20.0960* | 4.0892 | .001 | -32.3326 | -7.8594 |
| | fenil | 2.5120 | 4.0892 | .971 | -9.7246 | 14.7486 |
| | e1,0 | -3.7680 | 4.0892 | .885 | -16.0046 | 8.4686 |
| | e2,0 | .0000 | 4.0892 | 1.000 | -12.2366 | 12.2366 |
| e2,0 | pga3 | -20.0960* | 4.0892 | .001 | -32.3326 | -7.8594 |
| | fenil | 2.5120 | 4.0892 | .971 | -9.7246 | 14.7486 |
| | e1,0 | -3.7680 | 4.0892 | .885 | -16.0046 | 8.4686 |
| | e1,5 | .0000 | 4.0892 | 1.000 | -12.2366 | 12.2366 |

*. The mean difference is significant at the .05 level.



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## LAMPIRAN I

## PERHITUNGAN ANAVA LEUKOSIT TIKUS PADA JAM KE-0

**Descriptives**

LEUCOSIT

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound | | |
| pga3 | 5 | 7100.00 | 380.79 | 170.29 | 6627.19 | 7572.81 | 6650 | 7600 |
| feni | 5 | 7510.00 | 926.96 | 414.55 | 6359.03 | 8660.97 | 6400 | 8550 |
| e1,0 | 5 | 7210.00 | 765.18 | 342.20 | 6259.90 | 8160.10 | 6400 | 8050 |
| e1,5 | 5 | 7280.00 | 1001.62 | 447.94 | 6036.32 | 8523.68 | 5900 | 8400 |
| e2,0 | 5 | 7820.00 | 489.39 | 218.86 | 7212.35 | 8427.65 | 7150 | 8450 |
| Total | 25 | 7384.00 | 735.09 | 147.02 | 7080.57 | 7687.43 | 5900 | 8550 |

**Test of Homogeneity of Variances**

LEUCOSIT

| Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|
| 2.439 | 4 | 20 | .081 |

**ANOVA**

LEUCOSIT

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 1638600 | 4 | 409650.0 | .723 | .586 |
| Within Groups | 1.1E+07 | 20 | 566500.0 | | |
| Total | 1.3E+07 | 24 | | | |



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## Post Hoc Tests

**Multiple Comparisons**

Dependent Variable: LEUCOSIT
Tukey HSD

| (I) FORMULA | (J) FORMULA | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| pga3 | feni | -410.00 | 476.03 | .908 | -1834.46 | 1014.46 |
| | e1,0 | -110.00 | 476.03 | .999 | -1534.46 | 1314.46 |
| | e1,5 | -180.00 | 476.03 | .995 | -1604.46 | 1244.46 |
| | e2,0 | -720.00 | 476.03 | .567 | -2144.46 | 704.46 |
| feni | pga3 | 410.00 | 476.03 | .908 | -1014.46 | 1834.46 |
| | e1,0 | 300.00 | 476.03 | .968 | -1124.46 | 1724.46 |
| | e1,5 | 230.00 | 476.03 | .988 | -1194.46 | 1654.46 |
| | e2,0 | -310.00 | 476.03 | .964 | -1734.46 | 1114.46 |
| e1,0 | pga3 | 110.00 | 476.03 | .999 | -1314.46 | 1534.46 |
| | feni | -300.00 | 476.03 | .968 | -1724.46 | 1124.46 |
| | e1,5 | -70.00 | 476.03 | 1.000 | -1494.46 | 1354.46 |
| | e2,0 | -610.00 | 476.03 | .705 | -2034.46 | 814.46 |
| e1,5 | pga3 | 180.00 | 476.03 | .995 | -1244.46 | 1604.46 |
| | feni | -230.00 | 476.03 | .988 | -1654.46 | 1194.46 |
| | e1,0 | 70.00 | 476.03 | 1.000 | -1354.46 | 1494.46 |
| | e2,0 | -540.00 | 476.03 | .787 | -1964.46 | 884.46 |
| e2,0 | pga3 | 720.00 | 476.03 | .567 | -704.46 | 2144.46 |
| | feni | 310.00 | 476.03 | .964 | -1114.46 | 1734.46 |
| | e1,0 | 610.00 | 476.03 | .705 | -814.46 | 2034.46 |
| | e1,5 | 540.00 | 476.03 | .787 | -884.46 | 1964.46 |

## LAMPIRAN J

## PERHITUNGAN ANAVA LEUKOSIT TIKUS PADA JAM KE-2

**Descriptives**

LEUCOSIT

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound | | |
| pga3 | 5 | 12900.00 | 711.51 | 318.20 | 12016.54 | 13783.46 | 12050 | 13700 |
| feni | 5 | 13340.00 | 668.39 | 298.91 | 12510.08 | 14169.92 | 12700 | 14400 |
| e1,0 | 5 | 13380.00 | 659.17 | 294.79 | 12561.54 | 14198.46 | 12650 | 14450 |
| e1,5 | 5 | 12460.00 | 1061.48 | 474.71 | 11141.99 | 13778.01 | 11400 | 13850 |
| e2,0 | 5 | 13010.00 | 536.66 | 240.00 | 12343.65 | 13676.35 | 12200 | 13550 |
| Total | 25 | 13018.00 | 764.02 | 152.80 | 12702.63 | 13333.37 | 11400 | 14450 |

**Test of Homogeneity of Variances**

LEUCOSIT

| Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|
| 1.462 | 4 | 20 | .251 |

**ANOVA**

LEUCOSIT

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 2800400 | 4 | 700100.0 | 1.249 | .322 |
| Within Groups | 1.1E+07 | 20 | 560450.0 | | |
| Total | 1.4E+07 | 24 | | | |



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## Post Hoc Tests

**Multiple Comparisons**

Dependent Variable: LEUCOSIT

Tukey HSD

| (I) FORMULA | (J) FORMULA | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| pga3 | feni | -440.00 | 473.48 | .882 | -1856.83 | 976.83 |
| | e1,0 | -480.00 | 473.48 | .846 | -1896.83 | 936.83 |
| | e1,5 | 440.00 | 473.48 | .882 | -976.83 | 1856.83 |
| | e2,0 | -110.00 | 473.48 | .999 | -1526.83 | 1306.83 |
| feni | pga3 | 440.00 | 473.48 | .882 | -976.83 | 1856.83 |
| | e1,0 | -40.00 | 473.48 | 1.000 | -1456.83 | 1376.83 |
| | e1,5 | 880.00 | 473.48 | .370 | -536.83 | 2296.83 |
| | e2,0 | 330.00 | 473.48 | .955 | -1086.83 | 1746.83 |
| e1,0 | pga3 | 480.00 | 473.48 | .846 | -936.83 | 1896.83 |
| | feni | 40.00 | 473.48 | 1.000 | -1376.83 | 1456.83 |
| | e1,5 | 920.00 | 473.48 | .328 | -496.83 | 2336.83 |
| | e2,0 | 370.00 | 473.48 | .933 | -1046.83 | 1786.83 |
| e1,5 | pga3 | -440.00 | 473.48 | .882 | -1856.83 | 976.83 |
| | feni | -880.00 | 473.48 | .370 | -2296.83 | 536.83 |
| | e1,0 | -920.00 | 473.48 | .328 | -2336.83 | 496.83 |
| | e2,0 | -550.00 | 473.48 | .772 | -1966.83 | 866.83 |
| e2,0 | pga3 | 110.00 | 473.48 | .999 | -1306.83 | 1526.83 |
| | feni | -330.00 | 473.48 | .955 | -1746.83 | 1086.83 |
| | e1,0 | -370.00 | 473.48 | .933 | -1786.83 | 1046.83 |
| | e1,5 | 550.00 | 473.48 | .772 | -866.83 | 1966.83 |



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## LAMPIRAN K

## PERHITUNGAN ANAVA LEUKOSIT TIKUS PADA JAM KE-4

**Descriptives**

LEUCOSIT

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound | | |
| pga3 | 5 | 14630.00 | 284.17 | 127.08 | 14277.16 | 14982.84 | 14350 | 15050 |
| feni | 5 | 11810.00 | 685.02 | 306.35 | 10959.44 | 12660.56 | 10800 | 12500 |
| e1,0 | 5 | 11180.00 | 469.84 | 210.12 | 10596.62 | 11763.38 | 10650 | 11800 |
| e1,5 | 5 | 10740.00 | 954.86 | 427.02 | 9554.39 | 11925.61 | 9800 | 12200 |
| e2,0 | 5 | 11780.00 | 623.10 | 278.66 | 11006.32 | 12553.68 | 10800 | 12350 |
| Total | 25 | 12028.00 | 1507.90 | 301.58 | 11405.57 | 12650.43 | 9800 | 15050 |

**Test of Homogeneity of Variances**

LEUCOSIT

| Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|
| 1.992 | 4 | 20 | .135 |

**ANOVA**

LEUCOSIT

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 4.6E+07 | 4 | 1.2E+07 | 27.941 | .000 |
| Within Groups | 8283000 | 20 | 414150.0 | | |
| Total | 5.5E+07 | 24 | | | |

## Post Hoc Tests

**Multiple Comparisons**

Dependent Variable: LEUCOSIT
Tukey HSD

| (I) FORMULA | (J) FORMULA | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| pga3 | feni | 2820.00* | 407.01 | .000 | 1602.05 | 4037.95 |
| | e1,0 | 3450.00* | 407.01 | .000 | 2232.05 | 4667.95 |
| | e1,5 | 3890.00* | 407.01 | .000 | 2672.05 | 5107.95 |
| | e2,0 | 2850.00* | 407.01 | .000 | 1632.05 | 4067.95 |
| feni | pga3 | -2820.00* | 407.01 | .000 | -4037.95 | -1602.05 |
| | e1,0 | 630.00 | 407.01 | .545 | -587.95 | 1847.95 |
| | e1,5 | 1070.00 | 407.01 | .103 | -147.95 | 2287.95 |
| | e2,0 | 30.00 | 407.01 | 1.000 | -1187.95 | 1247.95 |
| e1,0 | pga3 | -3450.00* | 407.01 | .000 | -4667.95 | -2232.05 |
| | feni | -630.00 | 407.01 | .545 | -1847.95 | 587.95 |
| | e1,5 | 440.00 | 407.01 | .814 | -777.95 | 1657.95 |
| | e2,0 | -600.00 | 407.01 | .590 | -1817.95 | 617.95 |
| e1,5 | pga3 | -3890.00* | 407.01 | .000 | -5107.95 | -2672.05 |
| | feni | -1070.00 | 407.01 | .103 | -2287.95 | 147.95 |
| | e1,0 | -440.00 | 407.01 | .814 | -1657.95 | 777.95 |
| | e2,0 | -1040.00 | 407.01 | .118 | -2257.95 | 177.95 |
| e2,0 | pga3 | -2850.00* | 407.01 | .000 | -4067.95 | -1632.05 |
| | feni | -30.00 | 407.01 | 1.000 | -1247.95 | 1187.95 |
| | e1,0 | 600.00 | 407.01 | .590 | -617.95 | 1817.95 |
| | e1,5 | 1040.00 | 407.01 | .118 | -177.95 | 2257.95 |

*. The mean difference is significant at the .05 level.



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## LAMPIRAN L

## PERHITUNGAN ANAVA LEUKOSIT TIKUS PADA JAM KE-6

**Descriptives**

LEUCOSIT

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound | | |
| pga3 | 5 | 16010.00 | 604.57 | 270.37 | 15259.33 | 16760.67 | 15300 | 16800 |
| feni | 5 | 9660.00 | 780.54 | 349.07 | 8690.83 | 10629.17 | 8650 | 10550 |
| e1,0 | 5 | 9870.00 | 407.12 | 182.07 | 9364.49 | 10375.51 | 9400 | 10450 |
| e1,5 | 5 | 9500.00 | 1186.91 | 530.80 | 8026.26 | 10973.74 | 8400 | 11450 |
| e2,0 | 5 | 10340.00 | 1320.23 | 590.42 | 8700.72 | 11979.28 | 9400 | 12650 |
| Total | 25 | 11076.00 | 2671.73 | 534.35 | 9973.16 | 12178.84 | 8400 | 16800 |

**Test of Homogeneity of Variances**

LEUCOSIT

| Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|
| 1.169 | 4 | 20 | .354 |

**ANOVA**

LEUCOSIT

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 1.5E+08 | 4 | 3.9E+07 | 44.891 | .000 |
| Within Groups | 1.7E+07 | 20 | 858450.0 | | |
| Total | 1.7E+08 | 24 | | | |



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## Post Hoc Tests

**Multiple Comparisons**

Dependent Variable: LEUCOSIT
Tukey HSD

| (I) FORMULA | (J) FORMULA | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| pga3 | feni | 6350.00* | 585.99 | .000 | 4596.49 | 8103.51 |
| | e1,0 | 6140.00* | 585.99 | .000 | 4386.49 | 7893.51 |
| | e1,5 | 6510.00* | 585.99 | .000 | 4756.49 | 8263.51 |
| | e2,0 | 5670.00* | 585.99 | .000 | 3916.49 | 7423.51 |
| feni | pga3 | -6350.00* | 585.99 | .000 | -8103.51 | -4596.49 |
| | e1,0 | -210.00 | 585.99 | .996 | -1963.51 | 1543.51 |
| | e1,5 | 160.00 | 585.99 | .999 | -1593.51 | 1913.51 |
| | e2,0 | -680.00 | 585.99 | .773 | -2433.51 | 1073.51 |
| e1,0 | pga3 | -6140.00* | 585.99 | .000 | -7893.51 | -4386.49 |
| | feni | 210.00 | 585.99 | .996 | -1543.51 | 1963.51 |
| | e1,5 | 370.00 | 585.99 | .968 | -1383.51 | 2123.51 |
| | e2,0 | -470.00 | 585.99 | .927 | -2223.51 | 1283.51 |
| e1,5 | pga3 | -6510.00* | 585.99 | .000 | -8263.51 | -4756.49 |
| | feni | -160.00 | 585.99 | .999 | -1913.51 | 1593.51 |
| | e1,0 | -370.00 | 585.99 | .968 | -2123.51 | 1383.51 |
| | e2,0 | -840.00 | 585.99 | .614 | -2593.51 | 913.51 |
| e2,0 | pga3 | -5670.00* | 585.99 | .000 | -7423.51 | -3916.49 |
| | feni | 680.00 | 585.99 | .773 | -1073.51 | 2433.51 |
| | e1,0 | 470.00 | 585.99 | .927 | -1283.51 | 2223.51 |
| | e1,5 | 840.00 | 585.99 | .614 | -913.51 | 2593.51 |

*. The mean difference is significant at the .05 level.



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## LAMPIRAN M

## PERHITUNGAN ANAVA LEUKOSIT TIKUS PADA JAM KE-8

**Descriptives**

LEUCOSIT

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|---|---|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound | | |
| pga3 | 5 | 17410.00 | 969.79 | 433.70 | 16205.84 | 18614.16 | 16100 | 18700 |
| feni | 5 | 8310.00 | 883.46 | 395.09 | 7213.04 | 9406.96 | 7100 | 9400 |
| e1,0 | 5 | 8220.00 | 685.20 | 306.43 | 7369.21 | 9070.79 | 7350 | 9050 |
| e1,5 | 5 | 7990.00 | 890.51 | 398.25 | 6884.29 | 9095.71 | 6600 | 9050 |
| e2,0 | 5 | 8590.00 | 406.82 | 181.93 | 8084.87 | 9095.13 | 8100 | 9200 |
| Total | 25 | 10104.00 | 3803.12 | 760.62 | 8534.15 | 11673.85 | 6600 | 18700 |

**Test of Homogeneity of Variances**

LEUCOSIT

| Levene Statistic | df1 | df2 | Sig. |
|---|---|---|---|
| .717 | 4 | 20 | .590 |

**ANOVA**

LEUCOSIT

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 3.3E+08 | 4 | 8.4E+07 | 132.794 | .000 |
| Within Groups | 1.3E+07 | 20 | 629800.0 | | |
| Total | 3.5E+08 | 24 | | | |

## Post Hoc Tests

**Multiple Comparisons**

Dependent Variable: LEUCOSIT

Tukey HSD

| (I) FORMULA | (J) FORMULA | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| pga3 | feni | 9100.00* | 501.92 | .000 | 7598.06 | 10601.94 |
| | e1,0 | 9190.00* | 501.92 | .000 | 7688.06 | 10691.94 |
| | e1,5 | 9420.00* | 501.92 | .000 | 7918.06 | 10921.94 |
| | e2,0 | 8820.00* | 501.92 | .000 | 7318.06 | 10321.94 |
| feni | pga3 | -9100.00* | 501.92 | .000 | -10601.94 | -7598.06 |
| | e1,0 | 90.00 | 501.92 | 1.000 | -1411.94 | 1591.94 |
| | e1,5 | 320.00 | 501.92 | .967 | -1181.94 | 1821.94 |
| | e2,0 | -280.00 | 501.92 | .980 | -1781.94 | 1221.94 |
| e1,0 | pga3 | -9190.00* | 501.92 | .000 | -10691.94 | -7688.06 |
| | feni | -90.00 | 501.92 | 1.000 | -1591.94 | 1411.94 |
| | e1,5 | 230.00 | 501.92 | .990 | -1271.94 | 1731.94 |
| | e2,0 | -370.00 | 501.92 | .945 | -1871.94 | 1131.94 |
| e1,5 | pga3 | -9420.00* | 501.92 | .000 | -10921.94 | -7918.06 |
| | feni | -320.00 | 501.92 | .967 | -1821.94 | 1181.94 |
| | e1,0 | -230.00 | 501.92 | .990 | -1731.94 | 1271.94 |
| | e2,0 | -600.00 | 501.92 | .754 | -2101.94 | 901.94 |
| e2,0 | pga3 | -8820.00* | 501.92 | .000 | -10321.94 | -7318.06 |
| | feni | 280.00 | 501.92 | .980 | -1221.94 | 1781.94 |
| | e1,0 | 370.00 | 501.92 | .945 | -1131.94 | 1871.94 |
| | e1,5 | 600.00 | 501.92 | .754 | -901.94 | 2101.94 |

*. The mean difference is significant at the .05 level.



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## LAMPIRAN N

## PERHITUNGAN KONVERSI VOLUME KAKI TIKUS

Hasil Pengukuran Volume Telapak Kaki Tikus Putih yang diberi Larutan PGA 3% b/v Per Oral

| Tikus No | Volume Telapak Kaki Tikus (ml) pada Jam Ke- | | | | |
|---|---|---|---|---|---|
| | 0 | 2 | 4 | 6 | 8 |
| 1 | 0,2 | 0,25 | 0,3 | 0,3 | 0,35 |
| 2 | 0,2 | 0,25 | 0,3 | 0,3 | 0,35 |
| 3 | 0,15 | 0,25 | 0,25 | 0,3 | 0,3 |
| 4 | 0,15 | 0,25 | 0,25 | 0,3 | 0,3 |
| 5 | 0,1 | 0,15 | 0,2 | 0,2 | 0,25 |
| Total | 0,80 | 1,15 | 1,30 | 1,40 | 1,55 |
| Rata-rata | 0,16 | 0,23 | 0,26 | 0,28 | 0,31 |

Hasil Pengukuran Volume Telapak Kaki Tikus Putih yang diberi Suspensi Fenilbutazone 9 mg/kgBB (0,09% b/v) Per Oral

| Tikus No | Volume Telapak Kaki Tikus (ml) pada Jam Ke- | | | | |
|---|---|---|---|---|---|
| | 0 | 2 | 4 | 6 | 8 |
| 1 | 0,2 | 0,3 | 0,25 | 0,2 | 0,2 |
| 2 | 0,1 | 0,2 | 0,2 | 0,15 | 0,1 |
| 3 | 0,1 | 0,2 | 0,15 | 0,15 | 0,1 |
| 4 | 0,15 | 0,25 | 0,2 | 0,2 | 0,15 |
| 5 | 0,1 | 0,2 | 0,15 | 0,15 | 0,1 |
| Total | 0,65 | 1,15 | 0,95 | 0,85 | 0,65 |
| Rata-rata | 0,13 | 0,23 | 0,19 | 0,17 | 0,13 |

Hasil Pengukuran Volume Telapak Kaki Tikus Putih yang diberi SuspensiEkstrak Daun Sangitan 1,0g/kgBB (10% b/v) Per Oral

| Tikus No | Volume Telapak Kaki Tikus (ml) pada Jam Ke- | | | | |
|---|---|---|---|---|---|
| | 0 | 2 | 4 | 6 | 8 |
| 1 | 0,2 | 0,3 | 0,25 | 0,25 | 0,25 |
| 2 | 0,25 | 0,35 | 0,3 | 0,3 | 0,25 |
| 3 | 0,1 | 0,2 | 0,2 | 0,2 | 0,15 |
| 4 | 0,1 | 0,2 | 0,2 | 0,15 | 0,15 |
| 5 | 0,1 | 0,2 | 0,15 | 0,15 | 0,1 |
| Total | 0,75 | 1,25 | 1,1 | 1,05 | 0,9 |
| Rata-rata | 0,15 | 0,25 | 0,22 | 0,21 | 0,18 |

Hasil Pengukuran Volume Telapak Kaki Tikus Putih yang diberi Suspensi Ekstrak Daun Sangitan 1,5 g/kgBB (15% b/v) Per Oral

| Tikus No | Volume Telapak Kaki Tikus (ml) pada Jam Ke- | | | | |
|---|---|---|---|---|---|
| | 0 | 2 | 4 | 6 | 8 |
| 1 | 0,2 | 0,25 | 0,25 | 0,25 | 0,2 |
| 2 | 0,2 | 0,3 | 0,25 | 0,25 | 0,2 |
| 3 | 0,1 | 0,2 | 0,15 | 0,15 | 0,1 |
| 4 | 0,1 | 0,2 | 0,2 | 0,15 | 0,15 |
| 5 | 0,1 | 0,2 | 0,2 | 0,15 | 0,1 |
| Total | 0,7 | 1,15 | 1,05 | 0,95 | 0,75 |
| Rata-rata | 0,14 | 0,23 | 0,21 | 0,19 | 0,15 |

Hasil Pengukuran Volume Telapak Kaki Tikus Putih yang diberi Suspensi Ekstrak Daun Sangitan 2,0 g/kgBB (20% b/v) Per Oral

| Tikus No | Volume Telapak Kaki Tikus (ml) pada Jam Ke- | | | | |
|---|---|---|---|---|---|
| | 0 | 2 | 4 | 6 | 8 |
| 1 | 0,2 | 0,3 | 0,3 | 0,25 | 0,2 |
| 2 | 0,2 | 0,3 | 0,3 | 0,25 | 0,2 |
| 3 | 0,1 | 0,2 | 0,15 | 0,15 | 0,1 |
| 4 | 0,1 | 0,2 | 0,2 | 0,15 | 0,1 |
| 5 | 0,1 | 0,2 | 0,15 | 0,2 | 0,15 |
| Total | 0,7 | 1,2 | 1,1 | 1,0 | 0,75 |
| Rata-rata | 0,14 | 0,24 | 0,22 | 0,2 | 0,15 |

Volume kaki tikus = 3,14 x $r^2$ x Vol kaki (dlm mm)

Keterangan= r: jari-jari pada tabung *Phletysmometer* (diketahui = 2mm), vol kaki (dlm mm): vol kaki pada pengamatan diubah dalam mm

Contoh perhitungan:

Volume kaki tikus PGA 3% pd jam ke-0, tikus 1 = 3,14 x $2^2$ x 2

=25,12 $mm^3$

**Perhitungan % Radang**

$$\% \text{ Radang} = \frac{\text{Vol pd } t_{n-1} - \text{Vol pd } t_n}{\text{Vol pd } t_n} \times 100\%$$

Contoh perhitungan :

$$\% \text{ Radang tikus PGA 3\%} = \frac{28,89 - 20,10}{20,10} \times 100\%$$

$$= 43,75$$



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**Perhitungan % Inhibisi**

$$\% \text{ inhibisi} = \frac{Vol_{(E/P)} \text{ pd } t_n\text{-}t_0 \text{ -- } Vol_{(k)} \text{ pd } t_n\text{-}t_0}{Vol_{(k)} \text{ pd } t_n\text{-}t_0} \times 100\%$$

Keterangan = $Vol_{(E/P)}$ pd $t_n$-$t_0$ : Volume telapak kaki tikus ekstrak atau tikus pembanding ($mm^3$) pada jam yang akan dihitung dikurangi pada jam ke-0, $Vol_{(k)}$ pd $t_n$-$t_0$ : Volume telapak kaki tikus kontrol pada jam yang akan dihitung dikurangi pada jam ke-0.

**LAMPIRAN O**

## Tabel Distribusi F

| Denomins for Degrees of Freedom | Numerator Degrees of Freedom | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 1 | 161.4 | 199.5 | 215.7 | 224.6 | 230.2 | 234.0 | 236.8 | 238.9 | 240.5 |
| 2 | 18.81 | 19.00 | 19.16 | 19.25 | 19.30 | 19.33 | 19.35 | 19.37 | 19.38 |
| 3 | 10.73 | 9.55 | 9.28 | 9.12 | 9.01 | 8.94 | 8.89 | 8.85 | 8.81 |
| 4 | 7.71 | 6.94 | 6.59 | 6.39 | 6.26 | 6.16 | 6.09 | 6.04 | 6.00 |
| 5 | 6.61 | 5.79 | 5.41 | 5.19 | 5.05 | 4.95 | 4.88 | 4.82 | 4.77 |
| 6 | 5.99 | 5.14 | 4.76 | 4.53 | 4.39 | 4.28 | 4.21 | 4.15 | 4.10 |
| 7 | 5.59 | 4.74 | 4.35 | 4.12 | 3.97 | 3.87 | 3.79 | 3.73 | 3.68 |
| 8 | 5.32 | 4.46 | 4.07 | 3.84 | 3.69 | 3.58 | 3.50 | 3.44 | 3.39 |
| 9 | 5.12 | 4.26 | 3.86 | 3.63 | 3.48 | 3.37 | 3.29 | 3.23 | 3.18 |
| 10 | 4.96 | 4.10 | 3.71 | 3.48 | 3.33 | 3.22 | 3.14 | 3.07 | 3.02 |
| 11 | 4.84 | 3.98 | 3.59 | 3.36 | 3.20 | 3.09 | 3.01 | 2.95 | 2.90 |
| 12 | 4.75 | 3.89 | 3.49 | 3.26 | 3.11 | 3.00 | 2.91 | 2.85 | 2.80 |
| 13 | 4.67 | 3.81 | 3.41 | 3.18 | 3.03 | 2.92 | 2.83 | 2.77 | 2.71 |
| 14 | 4.60 | 3.74 | 3.34 | 3.11 | 2.96 | 2.85 | 2.76 | 2.70 | 2.65 |
| 15 | 4.54 | 3.68 | 3.29 | 3.06 | 2.90 | 2.79 | 2.71 | 2.64 | 2.59 |
| 16 | 4.49 | 3.63 | 3.24 | 3.01 | 2.85 | 2.74 | 2.66 | 2.59 | 2.54 |
| 17 | 4.45 | 3.59 | 3.20 | 2.96 | 2.81 | 2.70 | 2.61 | 2.55 | 2.49 |
| 18 | 4.41 | 3.55 | 3.16 | 2.93 | 2.77 | 2.66 | 2.58 | 2.51 | 2.46 |
| 19 | 4.38 | 3.52 | 3.13 | 2.90 | 2.74 | 2.63 | 2.54 | 2.48 | 2.42 |
| 20 | 4.35 | 3.49 | 3.10 | 2.87 | 2.71 | 2.60 | 2.51 | 2.45 | 2.39 |
| 21 | 4.32 | 3.47 | 3.07 | 2.84 | 2.68 | 2.57 | 2.49 | 2.42 | 2.37 |
| 22 | 4.30 | 3.44 | 3.05 | 2.82 | 2.66 | 2.55 | 2.46 | 2.40 | 2.34 |
| 23 | 4.28 | 3.42 | 3.03 | 2.80 | 2.64 | 2.53 | 2.44 | 2.37 | 2.32 |
| 24 | 4.26 | 3.40 | 3.01 | 2.78 | 2.62 | 2.51 | 2.42 | 2.36 | 2.30. |
| 25 | 4.24 | 3.39 | 2.99 | 2.76 | 2.60 | 2.49 | 2.40 | 2.34 | 2.28 |
| 26 | 4.23 | 3.37 | 2.98 | 2.74 | 2.59 | 2.47 | 2.39 | 2.32 | 2.27 |
| 27 | 4.21 | 3.35 | 2.96 | 2.73 | 2.57 | 2.46 | 2.37 | 2.31 | 2.25 |
| 28 | 4.20 | 3.34 | 2.95 | 2.71 | 2.56 | 2.45 | 2.36 | 2.29 | 2.24 |
| 29 | 4.18 | 3.33 | 2.93 | 2.70 | 2.55 | 2.43 | 2.35 | 2.28 | 2.22 |
| 30 | 4.17 | 3.32 | 2.92 | 2.69 | 2.53 | 2.42 | 2.33 | 2.27 | 2.21 |
| 40 | 4.08 | 3.23 | 2.84 | 2.61 | 2.45 | 2.34 | 2.25 | 2.18 | 2.12 |
| 60 | 4.00 | 3.15 | 2.76 | 2.53 | 2.37 | 2.25 | 2.17 | 2.10 | 2.04 |
| 120 | 3.92 | 3.07 | 2.68 | 2.45 | 2.29 | 2.17 | 2.09 | 2.02 | 1.96 |
| ∞ | 3.84 | 3.00 | 2.60 | 2.37 | 2.21 | 2.10 | 2.01 | 1.94 | 1.88 |

(Sumber: John E., 1992)



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**LAMPIRAN P**

**TABEL KOEFISIEN KORELASI r**

| Error df | P | Independent variables | | | | Error df | P | Independent variables | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 1 | 2 | 3 | 4 | | | 1 | 2 | 3 | 4 |
| 1 | .05 | .997 | .999 | .999 | .999 | 24 | .05 | .388 | .470 | .523 | .562 |
| | .01 | 1.000 | 1.000 | 1.000 | 1.000 | | .01 | .496 | .565 | .609 | .542 |
| 2 | .05 | .950 | .975 | .983 | .987 | 25 | .05 | .381 | .462 | .514 | .553 |
| | .01 | .990 | .995 | .997 | .998 | | .01 | .487 | .555 | .600 | .533 |
| 3 | .05 | .878 | .930 | .950 | .961 | 26 | .05 | .374 | .454 | .506 | .545 |
| | .01 | .959 | .976 | .983 | .987 | | .01 | .478 | .546 | .590 | .524 |
| 4 | .05 | .811 | .881 | .912 | .930 | 27 | .05 | .367 | .446 | .498 | .536 |
| | .01 | .917 | .949 | .962 | .970 | | .01 | .470 | .538 | .582 | .515 |
| 5 | .05 | .754 | .836 | .874 | .898 | 28 | .05 | .361 | .439 | .490 | .529 |
| | .01 | .874 | .917 | .937 | .949 | | .01 | .463 | .530 | .573 | .506 |
| 6 | .05 | .707 | .795 | .839 | .867 | 29 | .05 | .355 | .432 | .482 | .521 |
| | .01 | .834 | .886 | .911 | .927 | | .01 | .456 | .522 | .563 | .598 |
| 7 | .05 | .666 | .758 | .807 | .833 | 30 | .05 | .349 | .426 | .476 | .514 |
| | .01 | .798 | .855 | .885 | .904 | | .01 | .449 | .514 | .558 | .591 |
| 8 | .05 | .632 | .726 | .777 | .811 | 35 | .05 | .325 | .397 | .445 | .482 |
| | .01 | .765 | .827 | .86 | .882 | | .01 | .418 | .481 | .523 | .536 |
| 9 | .05 | .602 | .697 | .750 | .786 | 40 | .05 | .304 | .373 | .419 | .455 |
| | .01 | .735 | .800 | .836 | .861 | | .01 | .393 | .454 | .494 | .526 |
| 10 | .05 | .576 | .671 | .726 | .763 | 45 | .05 | .288 | .353 | .397 | .432 |
| | .01 | .708 | .776 | 814 | .840 | | .01 | .372 | .430 | .470 | .501 |
| 11 | .05 | .553 | .648 | .703 | .741 | 50 | .05 | .273 | .336 | .379 | .412 |
| | .01 | .634 | .753 | .793 | .821 | | .01 | .354 | .410 | .449 | .479 |
| 12 | .05 | .532 | .627 | .683 | .722 | 60 | .05 | .250 | .308 | .348 | .380 |
| | .01 | .661 | .732 | .773 | .802 | | .01 | .325 | .377 | .414 | .442 |
| 13 | .05 | .514 | .608 | .664 | .703 | 70 | .05 | .232 | .286 | .324 | .354 |
| | .01 | .641 | .712 | .755 | .785 | | .01 | .302 | .351 | .386 | .413 |
| 14 | .05 | .497 | .590 | .646 | .686 | 80 | .05 | .217 | .269 | .304 | .332 |
| | .01 | .623 | .694 | .737 | .768 | | .01 | .283 | .330 | .362 | .389 |
| 15 | .05 | .482 | .574 | .630 | .670 | 90 | .05 | .205 | .254 | .288 | .315 |
| | .01 | .606 | .677 | .721 | .752 | | .01 | .267 | .312 | .343 | .368 |
| 16 | .05 | .468 | .559 | .615 | .655 | 100 | .05 | .195 | .241 | .274 | 0.3 |
| | .01 | .590 | .662 | .706 | .738 | | .01 | .254 | .297 | .327 | .351 |
| 17 | .05 | .456 | .545 | .601 | .641 | 125 | .05 | .174 | .216 | .246 | .269 |
| | .01 | .575 | .647 | .691 | .720 | | .01 | .228 | .266 | .294 | .316 |
| 18 | .05 | .444 | .532 | .587 | .628 | 150 | .05 | .159 | .198 | .223 | .247 |
| | .01 | .561 | .633 | .678 | .710 | | .01 | .208 | .244 | .270 | .290 |
| 19 | .05 | .433 | .52 | .575 | .615 | 200 | .05 | .133 | .172 | .196 | .215 |
| | .01 | .549 | .620 | .665 | .698 | | .01 | .181 | .212 | .234 | .253 |
| 20 | .05 | .423 | .509 | .563 | .604 | 300 | .05 | .113 | .141 | .160 | .176 |
| | .01 | .537 | .608 | .652 | .685 | | .01 | .148 | .174 | .192 | .208 |
| 21 | .05 | .413 | .498 | .522 | .592 | 400 | .05 | .098 | .122 | .139 | .153 |
| | .01 | .526 | .596 | .641 | .674 | | .01 | .128 | .151 | .167 | .180 |
| 22 | .05 | .404 | .489 | .542 | .582 | 500 | .05 | .084 | .109 | .124 | .137 |
| | .01 | .515 | .583 | .630 | .668 | | .01 | .115 | .135 | .150 | .152 |
| 23 | .05 | .396 | .479 | .532 | .572 | 1,000 | .05 | .062 | .077 | .088 | .097 |
| | .01 | .505 | .574 | .619 | .652 | | .01 | .081 | .096 | .106 | .115 |

Sumber: Snedeene (1946)



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## LAMPIRAN Q

## SURAT DETERMINASI TUMBUHAN SANGITAN

**DINAS KESEHATAN PROVINSI JAWA TIMUR**
**UPT MATERIA MEDICA**
Jalan Lahor No.87 Telp. (0341) 593396 Batu (65313)
**KOTA BATU**

Nomor : 074 / 08 / 101.8 / 2009
Sifat : Biasa
Perihal : **Determinasi Tanaman Sangitan**

Memenuhi permohonan saudara
Nama : STEFANI THERESIA
NIM : 2443006013
Fakultas : Fakultas Farmasi
Universitas Widya Mandala Surabaya

1. Perihal determinasi tanaman Sangitan
   Kingdom : Plantae (Tumbuhan)
   Subkingdom : Tracheobionta (Tumbuhan berpembuluh)
   Super Divisi : Spermatophyta (Menghasilkan biji)
   Divisi : Magnoliophyta (Tumbuhan berbunga)
   Kelas : Magnoliopsida / Dicotyledonae(berkeping dua / dikotil)
   Sub Kelas : Asteridae
   Ordo : Dipsacales
   Famili : Caprifoliaceae
   Marga : Sambucus
   Jenis : *Sambucus javanica Reinw.*
   Sinonim : *S.chinensis, Lindl. = S.ebuloides, Desv. = S.thunbergiana, Bl. = Phyteuma bipinnata, Lour. = P.cochinchinensis, Lour.*
   Nama Daerah : Sangitan (Melayu), Kerak nasi (Sunda);

2. Nama Simplisia : Sambuci javanicae Herba / Herba Sangitan

3. Kandungan Kimia : Tumbuhan ini mengandung minyak asiri, cyanogenic glucoside, ursolic acid, . Beta-sitosterol, Alfa-amyrin palmitate , $KNO_3$ dan tanin. Buah mengandung saponin dan flavonoida..

4. Penggunaan : Penelitian

Demikian determinasi ini kami buat untuk dipergunakan sebagaimana mestinya.

Batu , 25 September 2009
An. Kepala UPT Materia Medica Batu

Unik Purwaningtyas, SKM
NIP. 19640424 198702 2 002