## Lampiran 1

**Descriptive Statistics**

Dependent Variable:potensi_insektisida

| konsentrasi | waktu | Mean | Std. Deviation | N |
|---|---|---|---|---|
| K- | 0 | .00 | .000 | 4 |
| | 1 | .00 | .000 | 4 |
| | 2 | .00 | .000 | 4 |
| | 3 | .00 | .000 | 4 |
| | 4 | .00 | .000 | 4 |
| | 5 | .00 | .000 | 4 |
| | 6 | .00 | .000 | 4 |
| | 24 | .00 | .000 | 4 |
| | Total | .00 | .000 | 32 |
| K+ | 0 | .00 | .000 | 4 |
| | 1 | 100.00 | .000 | 4 |
| | 2 | 100.00 | .000 | 4 |
| | 3 | 100.00 | .000 | 4 |
| | 4 | 100.00 | .000 | 4 |
| | 5 | 100.00 | .000 | 4 |
| | 6 | 100.00 | .000 | 4 |

| | | | | |
|---|---|---|---|---|
| | 24 | 100.00 | .000 | 4 |
| | Total | 87.50 | 33.601 | 32 |
| 5% | 0 | .00 | .000 | 4 |
| | 1 | 45.00 | 5.774 | 4 |
| | 2 | 52.50 | 9.574 | 4 |
| | 3 | 62.50 | 9.574 | 4 |
| | 4 | 70.00 | .000 | 4 |
| | 5 | 75.00 | 10.000 | 4 |
| | 6 | 85.00 | 10.000 | 4 |
| | 24 | 100.00 | .000 | 4 |
| | Total | 61.25 | 29.485 | 32 |
| 7.5% | 0 | .00 | .000 | 4 |
| | 1 | 52.50 | 5.000 | 4 |
| | 2 | 62.50 | 5.000 | 4 |
| | 3 | 67.50 | 5.000 | 4 |
| | 4 | 77.50 | 5.000 | 4 |
| | 5 | 80.00 | 8.165 | 4 |
| | 6 | 90.00 | 8.165 | 4 |
| | 24 | 100.00 | .000 | 4 |
| | Total | 66.25 | 29.594 | 32 |

| | | | | |
|---|---|---|---|---|
| 10% | 0 | .00 | .000 | 4 |
| | 1 | 77.50 | 12.583 | 4 |
| | 2 | 82.50 | 15.000 | 4 |
| | 3 | 87.50 | 12.583 | 4 |
| | 4 | 95.00 | 10.000 | 4 |
| | 5 | 100.00 | .000 | 4 |
| | 6 | 100.00 | .000 | 4 |
| | 24 | 100.00 | .000 | 4 |
| | Total | 80.31 | 32.872 | 32 |
| Total | 0 | .00 | .000 | 20 |
| | 1 | 55.00 | 35.019 | 20 |
| | 2 | 59.50 | 35.611 | 20 |
| | 3 | 63.50 | 36.023 | 20 |
| | 4 | 68.50 | 37.173 | 20 |
| | 5 | 71.00 | 38.237 | 20 |
| | 6 | 75.00 | 39.270 | 20 |
| | 24 | 80.00 | 41.039 | 20 |
| | Total | 59.06 | 41.691 | 160 |

## Uji Normalitas Kolmogorov Smirnov

**One-Sample Kolmogorov-Smirnov Test**

| | | potensi_insektisida |
|---|---|---|
| N | | 160 |
| Normal Parameters[a] | Mean | 59.06 |
| | Std. Deviation | 41.691 |
| Most Extreme Differences | Absolute | .222 |
| | Positive | .222 |
| | Negative | -.183 |
| Kolmogorov-Smirnov Z | | 2.804 |
| Asymp. Sig. (2-tailed) | | .114 |

a. Test distribution is Normal.

## Uji Homogenitas

**Levene's Test of Equality of Error Variances[a]**

Dependent Variable:potensi_insektisida

| F | df1 | df2 | Sig. |
|---|---|---|---|
| 5.124 | 39 | 120 | .067 |

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept + konsentrasi + waktu + konsentrasi * waktu

## Uji One Way Anova

**ANOVA 1 jam**

potensi_insektisida

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 35451.200 | 4 | 6862.800 | 1.572E3 | .000 |
| Within Groups | 56.000 | 15 | 3.733 | | |
| Total | 29507.200 | 19 | | | |

**ANOVA 2 jam**

potensi_insektisida

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 34328.000 | 4 | 7632.000 | 1.708E3 | .000 |
| Within Groups | 60.000 | 15 | 4.000 | | |
| Total | 27388.000 | 19 | | | |

**ANOVA 3 jam**

potensi_insektisida

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 67519.200 | 4 | 7764.800 | 310.469 | .000 |
| Within Groups | 260.000 | 15 | 17.333 | | |
| Total | 22479.200 | 19 | | | |

ONEWAY potensi_insektisida BY konsentrasi

**ANOVA 4 jam**

potensi_insektisida

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 17760.800 | 4 | 9896.200 | 316.962 | .000 |
| Within Groups | 208.000 | 15 | 13.867 | | |
| Total | 17788.800 | 19 | | | |

**ANOVA 5 jam**

potensi_insektisida

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|

| | | | | | |
|---|---|---|---|---|---|
| Between Groups | 13476.800 | 4 | 4359.200 | 200.975 | .000 |
| Within Groups | 244.000 | 15 | 16.267 | | |
| Total | 13320.800 | 19 | | | |

**ANOVA 6 jam**

potensi_insektisida

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 23480.800 | 4 | 4585.200 | 1.030E3 | .000 |
| Within Groups | 48.000 | 15 | 3.200 | | |
| Total | 13228.800 | 19 | | | |

**ANOVA 24 jam**

potensi_insektisida

| | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|
| Between Groups | 6196.800 | 4 | 1349.200 | 414.964 | .000 |
| Within Groups | 56.000 | 15 | 3.733 | | |
| Total | 6252.800 | 19 | | | |

## Post Hoc Tests

## konsentrasi

**Multiple Comparisons**

potensi_insektisida

Tukey HSD

| (I) konsentrasi | (J) konsentrasi | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| K- | K+ | -87.50* | 1.421 | .000 | -91.43 | -83.57 |
| | 5% | -61.25* | 1.421 | .000 | -65.18 | -57.32 |
| | 7.5% | -66.25* | 1.421 | .000 | -70.18 | -62.32 |
| | 10% | -80.31* | 1.421 | .000 | -84.25 | -76.38 |
| K+ | K- | 87.50* | 1.421 | .000 | 83.57 | 91.43 |
| | 5% | 26.25* | 1.421 | .000 | 22.32 | 30.18 |
| | 7.5% | 21.25* | 1.421 | .000 | 17.32 | 25.18 |
| | 10% | 7.19* | 1.421 | .000 | 3.25 | 11.12 |
| 5% | K- | 61.25* | 1.421 | .000 | 57.32 | 65.18 |
| | K+ | -26.25* | 1.421 | .000 | -30.18 | -22.32 |
| | 7.5% | -5.00* | 1.421 | .005 | -8.93 | -1.07 |
| | 10% | -19.06* | 1.421 | .000 | -23.00 | -15.13 |
| 7.5% | K- | 66.25* | 1.421 | .000 | 62.32 | 70.18 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | K+ | -21.25* | 1.421 | .000 | -25.18 | -17.32 |
| | 5% | 5.00* | 1.421 | .005 | 1.07 | 8.93 |
| | 10% | -14.06* | 1.421 | .000 | -18.00 | -10.13 |
| 10% | K- | 80.31* | 1.421 | .000 | 76.38 | 84.25 |
| | K+ | -7.19* | 1.421 | .000 | -11.12 | -3.25 |
| | 5% | 19.06* | 1.421 | .000 | 15.13 | 23.00 |
| | 7.5% | 14.06* | 1.421 | .000 | 10.13 | 18.00 |

Based on observed means.

The error term is Mean Square(Error) = 32.292.

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

## Homogeneous Subsets

**potensi_insektisida**

Tukey HSD

| konsentrasi | N | Subset 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|---|
| K- | 32 | .00 | | | | |
| 5% | 32 | | 61.25 | | | |
| 7.5% | 32 | | | 66.25 | | |
| 10% | 32 | | | | 80.31 | |
| K+ | 32 | | | | | 87.50 |
| Sig. | | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 32.292.

## waktu

**Multiple Comparisons**

potensi_insektisida

Tukey HSD

| (I) waktu | (J) waktu | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|---|---|---|---|---|---|---|
| | | | | | Lower Bound | Upper Bound |
| 0 | 1 | -55.00* | 1.797 | .000 | -60.54 | -49.46 |
| | 2 | -59.50* | 1.797 | .000 | -65.04 | -53.96 |
| | 3 | -63.50* | 1.797 | .000 | -69.04 | -57.96 |
| | 4 | -68.50* | 1.797 | .000 | -74.04 | -62.96 |
| | 5 | -71.00* | 1.797 | .000 | -76.54 | -65.46 |
| | 6 | -75.00* | 1.797 | .000 | -80.54 | -69.46 |
| | 24 | -80.00* | 1.797 | .000 | -85.54 | -74.46 |
| 1 | 0 | 55.00* | 1.797 | .000 | 49.46 | 60.54 |
| | 2 | -4.50 | 1.797 | .204 | -10.04 | 1.04 |
| | 3 | -8.50* | 1.797 | .000 | -14.04 | -2.96 |
| | 4 | -13.50* | 1.797 | .000 | -19.04 | -7.96 |
| | 5 | -16.00* | 1.797 | .000 | -21.54 | -10.46 |
| | 6 | -20.00* | 1.797 | .000 | -25.54 | -14.46 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | 24 | -25.00* | 1.797 | .000 | -30.54 | -19.46 |
| 2 | 0 | 59.50* | 1.797 | .000 | 53.96 | 65.04 |
| | 1 | 4.50 | 1.797 | .204 | -1.04 | 10.04 |
| | 3 | -4.00 | 1.797 | .344 | -9.54 | 1.54 |
| | 4 | -9.00* | 1.797 | .000 | -14.54 | -3.46 |
| | 5 | -11.50* | 1.797 | .000 | -17.04 | -5.96 |
| | 6 | -15.50* | 1.797 | .000 | -21.04 | -9.96 |
| | 24 | -20.50* | 1.797 | .000 | -26.04 | -14.96 |
| 3 | 0 | 63.50* | 1.797 | .000 | 57.96 | 69.04 |
| | 1 | 8.50* | 1.797 | .000 | 2.96 | 14.04 |
| | 2 | 4.00 | 1.797 | .344 | -1.54 | 9.54 |
| | 4 | -5.00 | 1.797 | .109 | -10.54 | .54 |
| | 5 | -7.50* | 1.797 | .001 | -13.04 | -1.96 |
| | 6 | -11.50* | 1.797 | .000 | -17.04 | -5.96 |
| | 24 | -16.50* | 1.797 | .000 | -22.04 | -10.96 |
| 4 | 0 | 68.50* | 1.797 | .000 | 62.96 | 74.04 |
| | 1 | 13.50* | 1.797 | .000 | 7.96 | 19.04 |
| | 2 | 9.00* | 1.797 | .000 | 3.46 | 14.54 |
| | 3 | 5.00 | 1.797 | .109 | -.54 | 10.54 |
| | 5 | -2.50 | 1.797 | .860 | -8.04 | 3.04 |

| | | | | | | |
|---|---|---|---|---|---|---|
| | 6 | -6.50* | 1.797 | .010 | -12.04 | -.96 |
| | 24 | -11.50* | 1.797 | .000 | -17.04 | -5.96 |
| 5 | 0 | 71.00* | 1.797 | .000 | 65.46 | 76.54 |
| | 1 | 16.00* | 1.797 | .000 | 10.46 | 21.54 |
| | 2 | 11.50* | 1.797 | .000 | 5.96 | 17.04 |
| | 3 | 7.50* | 1.797 | .001 | 1.96 | 13.04 |
| | 4 | 2.50 | 1.797 | .860 | -3.04 | 8.04 |
| | 6 | -4.00 | 1.797 | .344 | -9.54 | 1.54 |
| | 24 | -9.00* | 1.797 | .000 | -14.54 | -3.46 |
| 6 | 0 | 75.00* | 1.797 | .000 | 69.46 | 80.54 |
| | 1 | 20.00* | 1.797 | .000 | 14.46 | 25.54 |
| | 2 | 15.50* | 1.797 | .000 | 9.96 | 21.04 |
| | 3 | 11.50* | 1.797 | .000 | 5.96 | 17.04 |
| | 4 | 6.50* | 1.797 | .010 | .96 | 12.04 |
| | 5 | 4.00 | 1.797 | .344 | -1.54 | 9.54 |
| | 24 | -5.00 | 1.797 | .109 | -10.54 | .54 |
| 24 | 0 | 80.00* | 1.797 | .000 | 74.46 | 85.54 |
| | 1 | 25.00* | 1.797 | .000 | 19.46 | 30.54 |
| | 2 | 20.50* | 1.797 | .000 | 14.96 | 26.04 |
| | 3 | 16.50* | 1.797 | .000 | 10.96 | 22.04 |

| | | | | | |
|---|---|---|---|---|---|
| 4 | 11.50* | 1.797 | .000 | 5.96 | 17.04 |
| 5 | 9.00* | 1.797 | .000 | 3.46 | 14.54 |
| 6 | 5.00 | 1.797 | .109 | -.54 | 10.54 |

Based on observed means.

The error term is Mean Square(Error) = 32.292.

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

## Homogeneous Subsets

**potensi_insektisida**

Tukey HSD

| waktu | N | Subset 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|---|---|
| 0 | 20 | .00 | | | | | | |
| 1 | 20 | | 55.00 | | | | | |
| 2 | 20 | | 59.50 | 59.50 | | | | |
| 3 | 20 | | | 63.50 | 63.50 | | | |
| 4 | 20 | | | | 68.50 | 68.50 | | |
| 5 | 20 | | | | | 71.00 | 71.00 | |
| 6 | 20 | | | | | | 75.00 | 75.00 |
| 24 | 20 | | | | | | | 80.00 |
| Sig. | | 1.000 | .204 | .344 | .109 | .860 | .344 | .109 |

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 32.292.

```
CORRELATIONS
 /VARIABLES=konsentrasi waktu potensi_insektisida
 /PRINT=TWOTAIL NOSIG
 /MISSING=PAIRWISE.
```

## Uji Korelasi Pearson

**Correlations**

| | | konsentrasi | waktu | potensi_insektisida |
|---|---|---|---|---|
| konsentrasi | Pearson Correlation | 1 | .000 | .788** |
| | Sig. (2-tailed) | | 1.000 | .000 |
| | N | 160 | 160 | 160 |
| waktu | Pearson Correlation | .000 | 1 | .295** |
| | Sig. (2-tailed) | 1.000 | | .000 |
| | N | 160 | 160 | 160 |
| potensi_insektisida | Pearson Correlation | .788** | .295** | 1 |
| | Sig. (2-tailed) | .000 | .000 | |
| | N | 160 | 160 | 160 |

**. Correlation is significant at the 0.01 level (2-tailed).

```
REGRESSION
```

/MISSING LISTWISE

/STATISTICS COEFF OUTS R ANOVA

/CRITERIA=PIN(.05) POUT(.10)

/NOORIGIN

/DEPENDENT potensi_insektisida2

/METHOD=ENTER konsentrasi2 waktu_2.

## Uji Regresi Linier

**Variables Entered/Removed[b]**

| Model | Variables Entered | Variables Removed | Method |
|---|---|---|---|
| 1 | waktu_2, konsentrasi2[a] | . | Enter |

a. All requested variables entered.

b. Dependent Variable: potensi_insektisida2

**Model Summary**

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|---|---|---|---|---|
| 1 | .798[a] | .637 | .631 | 24.63445 |

**Model Summary**

| Model | R | R Square | Adjusted R Square | Std. Error of the Estimate |
|---|---|---|---|---|
| 1 | .798[a] | .637 | .631 | 24.63445 |

a. Predictors: (Constant), waktu_2, konsentrasi2

**ANOVA[b]**

| Model | | Sum of Squares | df | Mean Square | F | Sig. |
|---|---|---|---|---|---|---|
| 1 | Regression | 133154.713 | 2 | 66577.357 | 109.709 | .000[a] |
| | Residual | 75857.005 | 125 | 606.856 | | |
| | Total | 209011.719 | 127 | | | |

a. Predictors: (Constant), waktu_2, konsentrasi2

b. Dependent Variable: potensi_insektisida2

**Coefficients[a]**

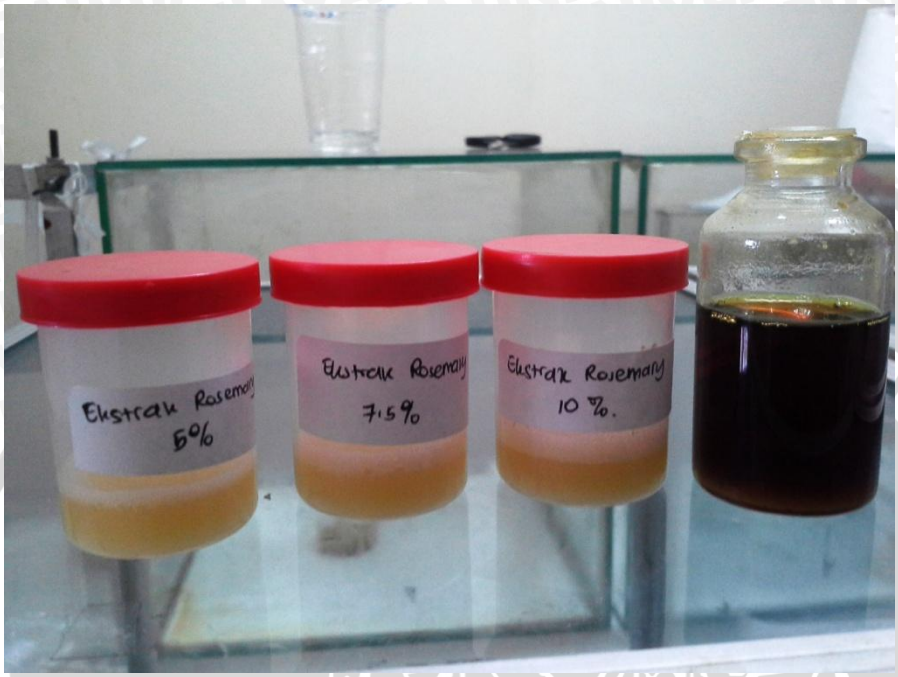
| Model | | Unstandardized Coefficients | | Standardized Coefficients | t | Sig. |
|---|---|---|---|---|---|---|
| | | B | Std. Error | Beta | | |
| 1 | (Constant) | -3.104 | 4.314 | | -.720 | .473 |

| | | | | | |
|---|---|---|---|---|---|
| konsentrasi2 | 7.996 | .589 | .732 | 13.579 | .000 |
| waktu_2 | 1.792 | .303 | .319 | 5.918 | .000 |

a. Dependent Variable: potensi_insektisida2

## Lampiran 2

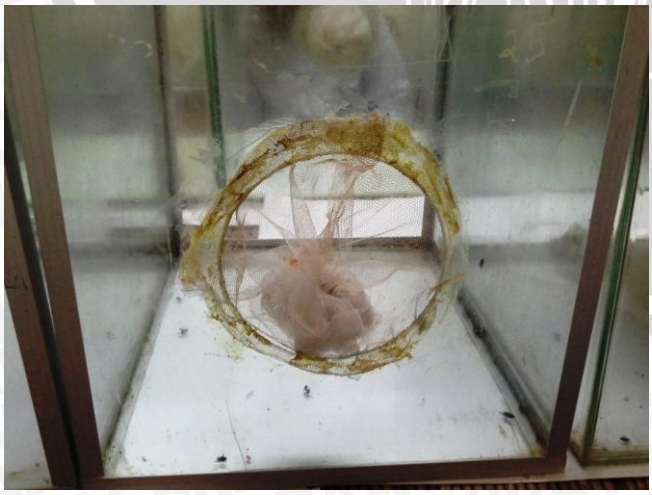
**Gambar 1 Alat dan Bahan Eksperimen**




**Gambar 2 Penyiapan Larutan Uji**

**Gambar 3 Kandang Telah Disemprot Dengan Ekstrak**

**Gambar4  Eksperimen dijalankan**



## Lampiran 3

UJI POTENSI EKSTRAK DAUN *ROSEMARY (Rosmarinus officinalis*)
SEBAGAI INSEKTISIDA TERHADAP LALAT *Musca domestica* MENGGUNAKAN METODE SEMPROTAN.

Jumlah Lalat *Musca domestica* yang Mati Pada Tiap-Tiap Pengulangan

Pengulangan 1

| Konsentrasi | Jam 0 | Jam 1 | Jam 2 | Jam 3 | Jam 4 | Jam 5 | Jam 6 | Jam 24 |
|---|---|---|---|---|---|---|---|---|
| 5% | 0 | 4 | 6 | 6 | 7 | 7 | 9 | 10 |
| 7.5% | 0 | 5 | 6 | 6 | 6 | 7 | 9 | 10 |
| 10% | 0 | 7 | 8 | 8 | 9 | 10 | 10 | 10 |
| Kontrol negatif | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kontrol positive | 0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

Pengulangan 2

| Konsentrasi | Jam 0 | Jam 1 | Jam 2 | Jam 3 | Jam 4 | Jam 5 | Jam 6 | Jam 24 |
|---|---|---|---|---|---|---|---|---|
| 5% | 0 | 5 | 5 | 7 | 7 | 9 | 9 | 10 |
| 7.5% | 0 | 6 | 6 | 7 | 8 | 8 | 9 | 10 |
| 10% | 0 | 9 | 9 | 9 | 10 | 10 | 10 | 10 |
| rol negatif | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kontrol positive | 0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

Pengulangan 3

| Konsentrasi | Jam 0 | Jam 1 | Jam 2 | Jam 3 | Jam 4 | Jam 5 | Jam 6 | Jam 24 |
|---|---|---|---|---|---|---|---|---|
| 5% | 0 | 5 | 6 | 7 | 7 | 7 | 9 | 10 |
| 7.5% | 0 | 5 | 7 | 7 | 8 | 9 | 9 | 10 |
| 10% | 0 | 8 | 9 | 9 | 10 | 10 | 10 | 10 |
| Kontrol negatif | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kontrol positive | 0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |

Pengulangan 4

| Konsentrasi | Jam 0 | Jam 1 | Jam 2 | Jam 3 | Jam 4 | Jam 5 | Jam 6 | Jam 24 |
|---|---|---|---|---|---|---|---|---|
| 5% | 0 | 4 | 4 | 5 | 7 | 7 | 7 | 10 |
| 7.5% | 0 | 5 | 6 | 7 | 7 | 7 | 8 | 10 |
| 10% | 0 | 8 | 9 | 10 | 10 | 10 | 10 | 10 |
| Kontrol negatif | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kontrol positive | 0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |