

**PERNYATAAN KEASLIAN TULISAN**

Saya yang bertanda tangan di bawah ini:

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NIM : 125070100111023

Program Studi : Program Studi Kedokteran Umum

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Menyatakan dengan sebenarnya bahwa Tugas Akhir yang saya tulis ini benar-benar hasil karya saya sendiri, bukan merupakan pengambil-alihan tulisan atau pikiran orang lain yang saya akui sebagai tulisan atau pikiran saya sendiri. Apabila di kemudian hari dapat dibuktikan bahwa Tugas Akhir ini adalah hasil jiplakan, maka saya bersedia menerima sanksi atas perbuatan tersebut.

Malang, 10 Januari 2017

Yang membuat pernyataan,



Sari Mufliha

NIM. 125070100111023

# LAMPIRAN1

## HASIL IDENTIFIKASI BAKTERI UJI VIITEK II

RS Dr SYAIFUL ANWAR MALANG  
 Microbiology Chart Report

bioMerieux Customer:  
  
 Patient Name:  
 Location:  
 Lab ID: FK UB

Printed Jun 17, 2016 07:24 ICT  
  
 Patient ID:  
 Physician:  
 Isolate Number: 1

Organism Quantity:  
 Selected Organism : Staphylococcus aureus

Source:
 

Collected:

Comments:

|                            |                 |                       |         |       |
|----------------------------|-----------------|-----------------------|---------|-------|
| Identification Information | Analysis Time:  | 5.25 hours            | Status: | Final |
| Selected Organism          | 98% Probability | Staphylococcus aureus |         |       |
|                            | Bionumber:      | 030402062263231       |         |       |
| ID Analysis Messages       |                 |                       |         |       |

| Susceptibility Information   |        |                | Analysis Time: 10.00 hours        |         | Status: Final  |
|------------------------------|--------|----------------|-----------------------------------|---------|----------------|
| Antimicrobial                | MIC    | Interpretation | Antimicrobial                     | MIC     | Interpretation |
| Cefoxitin Screen             | POS    | +              | +Ceftazidime                      |         | R              |
| Benzylpenicillin             | >= 0.5 | R              | +Ceftizoxime                      |         | R              |
| +Nafcillin                   |        | R              | +Ceftriaxone                      |         | R              |
| +Amoxicillin                 |        | R              | +Cefepime                         |         | R              |
| Ampicillin                   |        |                | +Cefpirome                        |         | R              |
| +Amoxicillin/Clavulanic Acid |        | R              | +Doripenem                        |         | R              |
| +Ampicillin/Sulbactam        |        | R              | +Imipenem                         |         | R              |
| +Ticarcillin/Clavulanic Acid |        | R              | +Meropenem                        |         | R              |
| +Piperacillin                |        | R              | Gentamicin High Level (synergy)   |         |                |
| +Piperacillin/Tazobactam     |        | R              | Streptomycin High Level (synergy) |         |                |
| +Cloxacillin                 |        | R              | Gentamicin                        | >= 16   | R              |
| +Methicillin                 |        | R              | Ciprofloxacin                     | >= 8    | R              |
| +Oxacillin MIC               |        | R              | Levofloxacin                      | 4       | I              |
| Oxacillin                    | >= 4   | R              | Moxifloxacin                      | 1       | S              |
| +Cefadroxil                  |        | R              | Inducible Clindamycin Resistance  | NEG     | -              |
| +Cefalexin                   |        | R              | +Azithromycin                     |         | S              |
| +Cefalotin                   |        | R              | +Clarithromycin                   |         | S              |
| +Cefazolin                   |        | R              | Erythromycin                      | <= 0.25 | S              |
| +Cefprozil                   |        | R              | Clindamycin                       | <= 0.25 | S              |
| +Cefradine                   |        | R              | Quinupristin/Dalfopristin         | <= 0.25 | S              |
| +Cefamandole                 |        | R              | Linezolid                         | 2       | S              |
| +Cefuroxime                  |        | R              | Vancomycin                        | <= 0.5  | S              |
| +Cefmetazole                 |        | R              | Tetracycline                      | >= 16   | R              |
| +Cefoxitin                   |        | R              | Tigecycline                       | <= 0.12 | S              |

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bioMerieux Customer: RS Dr SYAIFUL ANWAR MALANG  
 Patient Name: Microbiology Chart Report  
 Location: Patient ID:  
 Lab ID: FK UB Physician:  
 Isolate Number: 1  
 Organism Quantity:  
 Selected Organism : Staphylococcus aureus

| Susceptibility Information |     |                | Analysis Time: 10.00 hours    |       | Status: Final  |
|----------------------------|-----|----------------|-------------------------------|-------|----------------|
| Antimicrobial              | MIC | Interpretation | Antimicrobial                 | MIC   | Interpretation |
| +Cefditoren                |     | R              | Nitrofurantoin                | <= 16 | S              |
| +Cefixime                  |     | R              | Rifampicin                    | 4     | R              |
| +Cefoperazone              |     | R              | Trimethoprim/Sulfamethoxazole | <= 10 | S              |
| +Cefotaxime                |     | R              |                               |       |                |

+= Deduced drug \*= AES modified \*\*= User modified

| AES Findings |            |
|--------------|------------|
| Confidence:  | Consistent |



## LAMPIRAN 2

### Analisis Statistik Uji Sensitivitas Antimikroba Madu Lebah *Apis mellifera* Terhadap Bakteri MRSA

#### Statistik Deskriptif

##### Case Processing Summary

| Konsentrasi madu                  | Cases |         |         |         |       |         |
|-----------------------------------|-------|---------|---------|---------|-------|---------|
|                                   | Valid |         | Missing |         | Total |         |
|                                   | N     | Percent | N       | Percent | N     | Percent |
| 0%                                | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |
| 5%                                | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |
| 6%                                | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |
| Jumlah koloni terbentuk pada madu | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |
| 7%                                | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |
| 8%                                | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |
| 9%                                | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |
| 10%                               | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |

##### Descriptives<sup>a</sup>

| Konsentrasi madu                  |                                  | Statistic   | Std. Error |
|-----------------------------------|----------------------------------|-------------|------------|
| Jumlah koloni terbentuk pada madu | Mean                             | 1407.25     | 181.579    |
|                                   | 95% Confidence Interval for Mean | Lower Bound | 829.38     |
|                                   |                                  | Upper Bound | 1985.12    |
|                                   | 5% Trimmed Mean                  | 1390.94     |            |
|                                   | Median                           | 1260.50     |            |
|                                   | Variance                         | 131884.250  |            |
|                                   | Std. Deviation                   | 363.159     |            |
|                                   | Minimum                          | 1161        |            |
|                                   | Maximum                          | 1947        |            |
|                                   | Range                            | 786         |            |

|    |                                  |             |           |         |
|----|----------------------------------|-------------|-----------|---------|
| 5% | Interquartile Range              |             | 598       |         |
|    | Skewness                         |             | 1.889     | 1.014   |
|    | Kurtosis                         |             | 3.663     | 2.619   |
|    | Mean                             |             | 711.25    | 119.168 |
|    | 95% Confidence Interval for Mean | Lower Bound | 332.01    |         |
|    |                                  | Upper Bound | 1090.49   |         |
|    | 5% Trimmed Mean                  |             | 718.72    |         |
|    | Median                           |             | 778.50    |         |
|    | Variance                         |             | 56803.583 |         |
|    | Std. Deviation                   |             | 238.335   |         |
|    | Minimum                          |             | 392       |         |
|    | Maximum                          |             | 896       |         |
|    | Range                            |             | 504       |         |
|    | Interquartile Range              |             | 434       |         |
|    | Skewness                         |             | -1.010    | 1.014   |
| 6% | Kurtosis                         |             | -.482     | 2.619   |
|    | Mean                             |             | 283.00    | 92.840  |
|    | 95% Confidence Interval for Mean | Lower Bound | -12.46    |         |
|    |                                  | Upper Bound | 578.46    |         |
|    | 5% Trimmed Mean                  |             | 279.00    |         |
|    | Median                           |             | 247.00    |         |
|    | Variance                         |             | 34477.333 |         |
|    | Std. Deviation                   |             | 185.681   |         |
|    | Minimum                          |             | 101       |         |
|    | Maximum                          |             | 537       |         |
|    | Range                            |             | 436       |         |

|    |                                  |             |          |        |
|----|----------------------------------|-------------|----------|--------|
| 7% | Interquartile Range              |             | 347      |        |
|    | Skewness                         |             | 1.033    | 1.014  |
|    | Kurtosis                         |             | 1.342    | 2.619  |
|    | Mean                             |             | 77.00    | 27.982 |
|    | 95% Confidence Interval for Mean | Lower Bound | -12.05   |        |
|    |                                  | Upper Bound | 166.05   |        |
|    | 5% Trimmed Mean                  |             | 76.67    |        |
|    | Median                           |             | 74.00    |        |
|    | Variance                         |             | 3132.000 |        |
|    | Std. Deviation                   |             | 55.964   |        |
|    | Minimum                          |             | 26       |        |
|    | Maximum                          |             | 134      |        |
|    | Range                            |             | 108      |        |
|    | Interquartile Range              |             | 102      |        |
| 8% | Skewness                         |             | .079     | 1.014  |
|    | Kurtosis                         |             | -5.435   | 2.619  |
|    | Mean                             |             | 47.00    | 18.403 |
|    | 95% Confidence Interval for Mean | Lower Bound | -11.57   |        |
|    |                                  | Upper Bound | 105.57   |        |
|    | 5% Trimmed Mean                  |             | 45.67    |        |
|    | Median                           |             | 35.00    |        |
|    | Variance                         |             | 1354.667 |        |
|    | Std. Deviation                   |             | 36.806   |        |
|    | Minimum                          |             | 19       |        |
|    | Maximum                          |             | 99       |        |
|    | Range                            |             | 80       |        |

|                                  |                |         |       |
|----------------------------------|----------------|---------|-------|
| Interquartile Range              |                | 66      |       |
| Skewness                         |                | 1.402   | 1.014 |
| Kurtosis                         |                | 1.500   | 2.619 |
| Mean                             |                | 11.75   | 8.469 |
| 95% Confidence Interval for Mean | Lower Bound    | -15.20  |       |
|                                  | Upper Bound    | 38.70   |       |
| 5% Trimmed Mean                  |                | 10.89   |       |
| Median                           |                | 4.00    |       |
| Variance                         |                | 286.917 |       |
| 9%                               | Std. Deviation | 16.939  |       |
| Minimum                          |                | 2       |       |
| Maximum                          |                | 37      |       |
| Range                            |                | 35      |       |
| Interquartile Range              |                | 27      |       |
| Skewness                         |                | 1.928   | 1.014 |
| Kurtosis                         |                | 3.735   | 2.619 |

a. Jumlah koloni terbentuk pada madu is constant when Konsentrasi madu = 10%. It has been omitted.

## Uji Normalitas

### Tests of Normality<sup>b</sup>

| Konsentrasi madu                  | Kolmogorov-Smirnov <sup>a</sup> |    |      | Shapiro-Wilk |    |      |
|-----------------------------------|---------------------------------|----|------|--------------|----|------|
|                                   | Statistic                       | df | Sig. | Statistic    | df | Sig. |
| 0%                                | .389                            | 4  | .    | .754         | 4  | .042 |
| 5%                                | .275                            | 4  | .    | .864         | 4  | .276 |
| Jumlah koloni terbentuk pada madu | .241                            | 4  | .    | .947         | 4  | .697 |
| 7%                                | .289                            | 4  | .    | .828         | 4  | .162 |
| 8%                                | .250                            | 4  | .    | .856         | 4  | .245 |
| 9%                                | .383                            | 4  | .    | .710         | 4  | .015 |

a. Lilliefors Significance Correction

b. Jumlah koloni terbentuk pada madu is constant when Konsentrasi madu = 10%. It has been omitted.

## Uji Homogenisitas

### Test of Homogeneity of Variances

Jumlah koloni terbentuk pada madu

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 4.819            | 6   | 21  | .003 |

### Test of Homogeneity of Variance<sup>a</sup>

|                                   |                                      | Levene Statistic | df1 | df2   | Sig. |
|-----------------------------------|--------------------------------------|------------------|-----|-------|------|
| Jumlah koloni terbentuk pada madu | Based on Mean                        | 4.110            | 5   | 18    | .012 |
|                                   | Based on Median                      | 1.218            | 5   | 18    | .341 |
|                                   | Based on Median and with adjusted df | 1.218            | 5   | 4.988 | .417 |
|                                   | Based on trimmed mean                | 3.546            | 5   | 18    | .021 |

a. Jumlah koloni terbentuk pada madu is constant when Konsentrasi madu = 10%. It has been omitted.

## Uji Kruskal-Wallis

### Ranks

|                                   | Konsentrasi madu | N  | Mean Rank |
|-----------------------------------|------------------|----|-----------|
| Jumlah koloni terbentuk pada madu | 0%               | 4  | 26.50     |
|                                   | 5%               | 4  | 22.25     |
|                                   | 6%               | 4  | 18.25     |
|                                   | 7%               | 4  | 13.50     |
|                                   | 8%               | 4  | 11.00     |
|                                   | 9%               | 4  | 7.50      |
|                                   | 10%              | 4  | 2.50      |
|                                   | Total            | 28 |           |



**Test Statistics<sup>a,b</sup>**

|             | Jumlah koloni terbentuk pada madu |
|-------------|-----------------------------------|
| Chi-Square  | 25.162                            |
| df          | 6                                 |
| Asymp. Sig. | .000                              |

a. Kruskal Wallis Test

b. Grouping Variable: Konsentrasi madu

### Uji Mann-Whitney

**Ranks**

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 0%               | 4 | 6.50      | 26.00        |
|                                   | 5%               | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

**Test Statistics<sup>a</sup>**

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.309                            |
| Asymp. Sig. (2-tailed)         | .021                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

**Ranks**

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 0%               | 4 | 6.50      | 26.00        |
|                                   | 6%               | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

**Test Statistics<sup>a</sup>**

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.309                            |
| Asymp. Sig. (2-tailed)         | .021                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 0%               | 4 | 6.50      | 26.00        |
|                                   | 7%               | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.309                            |
| Asymp. Sig. (2-tailed)         | .021                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 0%               | 4 | 6.50      | 26.00        |
|                                   | 8%               | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.309                            |
| Asymp. Sig. (2-tailed)         | .021                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 0%               | 4 | 6.50      | 26.00        |
|                                   | 9%               | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.323                            |
| Asymp. Sig. (2-tailed)         | .020                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 0%               | 4 | 6.50      | 26.00        |
|                                   | 10%              | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.460                            |
| Asymp. Sig. (2-tailed)         | .014                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 5%               | 4 | 6.25      | 25.00        |
|                                   | 6%               | 4 | 2.75      | 11.00        |
|                                   | Total            | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | 1.000                             |
| Wilcoxon W                     | 11.000                            |
| Z                              | -2.021                            |
| Asymp. Sig. (2-tailed)         | .043                              |
| Exact Sig. [2*(1-tailed Sig.)] | .057 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 5%               | 4 | 6.50      | 26.00        |
|                                   | 7%               | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.309                            |
| Asymp. Sig. (2-tailed)         | .021                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 5%               | 4 | 6.50      | 26.00        |
|                                   | 8%               | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.309                            |
| Asymp. Sig. (2-tailed)         | .021                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 5%               | 4 | 6.50      | 26.00        |
|                                   | 9%               | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.323                            |
| Asymp. Sig. (2-tailed)         | .020                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 5%               | 4 | 6.50      | 26.00        |
|                                   | 10%              | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.460                            |
| Asymp. Sig. (2-tailed)         | .014                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.



### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 6%               | 4 | 6.00      | 24.00        |
|                                   | 7%               | 4 | 3.00      | 12.00        |
|                                   | Total            | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | 2.000                             |
| Wilcoxon W                     | 12.000                            |
| Z                              | -1.732                            |
| Asymp. Sig. (2-tailed)         | .083                              |
| Exact Sig. [2*(1-tailed Sig.)] | .114 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 6%               | 4 | 6.50      | 26.00        |
|                                   | 8%               | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.309                            |
| Asymp. Sig. (2-tailed)         | .021                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 6%               | 4 | 6.50      | 26.00        |
|                                   | 9%               | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.323                            |
| Asymp. Sig. (2-tailed)         | .020                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

#### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 6%               | 4 | 6.50      | 26.00        |
|                                   | 10%              | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.460                            |
| Asymp. Sig. (2-tailed)         | .014                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

#### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 7%               | 4 | 5.50      | 22.00        |
|                                   | 8%               | 4 | 3.50      | 14.00        |
|                                   | Total            | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | 4.000                             |
| Wilcoxon W                     | 14.000                            |
| Z                              | -1.155                            |
| Asymp. Sig. (2-tailed)         | .248                              |
| Exact Sig. [2*(1-tailed Sig.)] | .343 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

#### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 7%               | 4 | 6.00      | 24.00        |
|                                   | 9%               | 4 | 3.00      | 12.00        |
|                                   | Total            | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | 2.000                             |
| Wilcoxon W                     | 12.000                            |
| Z                              | -1.742                            |
| Asymp. Sig. (2-tailed)         | .081                              |
| Exact Sig. [2*(1-tailed Sig.)] | .114 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

**Ranks**

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 7%               | 4 | 6.50      | 26.00        |
|                                   | 10%              | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

**Test Statistics<sup>a</sup>**

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.460                            |
| Asymp. Sig. (2-tailed)         | .014                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

**Ranks**

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 8%               | 4 | 6.00      | 24.00        |
|                                   | 9%               | 4 | 3.00      | 12.00        |
|                                   | Total            | 8 |           |              |

**Test Statistics<sup>a</sup>**

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | 2.000                             |
| Wilcoxon W                     | 12.000                            |
| Z                              | -1.742                            |
| Asymp. Sig. (2-tailed)         | .081                              |
| Exact Sig. [2*(1-tailed Sig.)] | .114 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

**Ranks**

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 8%               | 4 | 6.50      | 26.00        |
|                                   | 10%              | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

**Test Statistics<sup>a</sup>**

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.460                            |
| Asymp. Sig. (2-tailed)         | .014                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

### Ranks

|                                   | Konsentrasi madu | N | Mean Rank | Sum of Ranks |
|-----------------------------------|------------------|---|-----------|--------------|
| Jumlah koloni terbentuk pada madu | 9%               | 4 | 6.50      | 26.00        |
|                                   | 10%              | 4 | 2.50      | 10.00        |
|                                   | Total            | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah koloni terbentuk pada madu |
|--------------------------------|-----------------------------------|
| Mann-Whitney U                 | .000                              |
| Wilcoxon W                     | 10.000                            |
| Z                              | -2.477                            |
| Asymp. Sig. (2-tailed)         | .013                              |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                 |

a. Grouping Variable: Konsentrasi madu

b. Not corrected for ties.

### Uji Pearson

#### Correlations

|                  |                     | Konsentrasi madu | trn_koloni |
|------------------|---------------------|------------------|------------|
| Konsentrasi madu | Pearson Correlation | 1                | -.926**    |
|                  | Sig. (2-tailed)     |                  | .000       |
|                  | N                   | 28               | 28         |
| trn_koloni       | Pearson Correlation | -.926**          | 1          |
|                  | Sig. (2-tailed)     | .000             |            |
|                  | N                   | 28               | 28         |

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



### LAMPIRAN 3

## Analisis Statistik Uji Sensitivitas Antimikroba Propolis Lebah *Apis mellifera* Terhadap Bakteri MRSA

### Statistik Deskriptif

Case Processing Summary

| Konsentrasi Propolis                  | Cases |         |         |         |       |         |
|---------------------------------------|-------|---------|---------|---------|-------|---------|
|                                       | Valid |         | Missing |         | Total |         |
|                                       | N     | Percent | N       | Percent | N     | Percent |
| 0%                                    | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |
| 1,0%                                  | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |
| 1,2%                                  | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |
| Jumlah Koloni Terbentuk pada Propolis | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |
| 1,4%                                  | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |
| 1,6%                                  | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |
| 1,8%                                  | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |
| 2,0%                                  | 4     | 100.0%  | 0       | 0.0%    | 4     | 100.0%  |

Descriptives<sup>a,b</sup>

| Konsentrasi Propolis                  |    |                                  | Statistic   | Std. Error |
|---------------------------------------|----|----------------------------------|-------------|------------|
| Jumlah Koloni Terbentuk pada Propolis | 0% | Mean                             | 1407.25     | 181.579    |
|                                       |    | 95% Confidence Interval for Mean | Lower Bound | 829.38     |
|                                       |    |                                  | Upper Bound | 1985.12    |
|                                       |    | 5% Trimmed Mean                  | 1390.94     |            |
|                                       |    | Median                           | 1260.50     |            |
|                                       |    | Variance                         | 131884.250  |            |
|                                       |    | Std. Deviation                   | 363.159     |            |
|                                       |    | Minimum                          | 1161        |            |

|      |                                  |             |         |
|------|----------------------------------|-------------|---------|
| 1,0% | Maximum                          | 1947        |         |
|      | Range                            | 786         |         |
|      | Interquartile Range              | 598         |         |
|      | Skewness                         | 1.889       | 1.014   |
|      | Kurtosis                         | 3.663       | 2.619   |
|      | Mean                             | 648.50      | 149.067 |
|      | 95% Confidence Interval for Mean | Lower Bound | 174.10  |
|      |                                  | Upper Bound | 1122.90 |
|      | 5% Trimmed Mean                  | 655.78      |         |
|      | Median                           | 714.00      |         |
|      | Variance                         | 88883.667   |         |
|      | Std. Deviation                   | 298.134     |         |
|      | Minimum                          | 231         |         |
|      | Maximum                          | 935         |         |
|      | Range                            | 704         |         |
| 1,2% | Interquartile Range              | 543         |         |
|      | Skewness                         | -1.217      | 1.014   |
|      | Kurtosis                         | 2.196       | 2.619   |
|      | Mean                             | 367.25      | 91.339  |
|      | 95% Confidence Interval for Mean | Lower Bound | 76.57   |
|      |                                  | Upper Bound | 657.93  |
|      | 5% Trimmed Mean                  | 363.78      |         |
|      | Median                           | 336.00      |         |
|      | Variance                         | 33370.917   |         |
|      | Std. Deviation                   | 182.677     |         |

|      |                                  |             |          |        |
|------|----------------------------------|-------------|----------|--------|
|      | Minimum                          |             | 180      |        |
|      | Maximum                          |             | 617      |        |
|      | Range                            |             | 437      |        |
|      | Interquartile Range              |             | 337      |        |
|      | Skewness                         |             | .972     | 1.014  |
|      | Kurtosis                         |             | 1.845    | 2.619  |
|      | Mean                             |             | 176.25   | 24.557 |
|      | 95% Confidence Interval for Mean | Lower Bound | 98.10    |        |
|      |                                  | Upper Bound | 254.40   |        |
|      | 5% Trimmed Mean                  |             | 177.78   |        |
| 1,4% | Median                           |             | 190.00   |        |
|      | Variance                         |             | 2412.250 |        |
|      | Std. Deviation                   |             | 49.115   |        |
|      | Minimum                          |             | 110      |        |
|      | Maximum                          |             | 215      |        |
|      | Range                            |             | 105      |        |
|      | Interquartile Range              |             | 90       |        |
|      | Skewness                         |             | -1.055   | 1.014  |
|      | Kurtosis                         |             | -.235    | 2.619  |
|      | Mean                             |             | 43.25    | 25.568 |
| 1,6% | 95% Confidence Interval for Mean | Lower Bound | -38.12   |        |
|      |                                  | Upper Bound | 124.62   |        |
|      | 5% Trimmed Mean                  |             | 40.89    |        |
|      | Median                           |             | 22.00    |        |
|      | Variance                         |             | 2614.917 |        |

|                     |        |       |
|---------------------|--------|-------|
| Std. Deviation      | 51.136 |       |
| Minimum             | 10     |       |
| Maximum             | 119    |       |
| Range               | 109    |       |
| Interquartile Range | 85     |       |
| Skewness            | 1.857  | 1.014 |
| Kurtosis            | 3.477  | 2.619 |

a. Jumlah Koloni Terbentuk pada Propolis is constant when Konsentrasi Propolis = 1,8%. It has been omitted.

b. Jumlah Koloni Terbentuk pada Propolis is constant when Konsentrasi Propolis = 2,0%. It has been omitted.

## Uji Normalitas

### Tests of Normality<sup>b,c</sup>

| Konsentrasi Propolis                       | Kolmogorov-Smirnov <sup>a</sup> |    |      | Shapiro-Wilk <sup>a</sup> |    |      |
|--------------------------------------------|---------------------------------|----|------|---------------------------|----|------|
|                                            | Statistic                       | df | Sig. | Statistic                 | df | Sig. |
| 0%                                         | .389                            | 4  | .    | .754                      | 4  | .042 |
| 1,0%                                       | .299                            | 4  | .    | .913                      | 4  | .500 |
| Jumlah Koloni Terbentuk pada Propolis 1,2% | .277                            | 4  | .    | .939                      | 4  | .650 |
| 1,4%                                       | .267                            | 4  | .    | .873                      | 4  | .309 |
| 1,6%                                       | .360                            | 4  | .    | .761                      | 4  | .048 |

a. Lilliefors Significance Correction

b. Jumlah Koloni Terbentuk pada Propolis is constant when Konsentrasi Propolis = 1,8%. It has been omitted.

## Uji Homogenitas

### Test of Homogeneity of Variances

Jumlah Koloni Terbentuk pada Propolis

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 4.057            | 6   | 21  | .007 |



### Test of Homogeneity of Variance<sup>a,b</sup>

|                                             |                                         | Levene Statistic | df1 | df2   | Sig. |
|---------------------------------------------|-----------------------------------------|------------------|-----|-------|------|
| Jumlah Koloni<br>Terbentuk pada<br>Propolis | Based on Mean                           | 2.690            | 4   | 15    | .072 |
|                                             | Based on Median                         | .797             | 4   | 15    | .545 |
|                                             | Based on Median and with<br>adjusted df | .797             | 4   | 6.465 | .566 |
|                                             | Based on trimmed mean                   | 2.282            | 4   | 15    | .109 |

### Uji Kruskal-Wallis

#### Ranks

|                                       | Konsentrasi Propolis | N  | Mean Rank |
|---------------------------------------|----------------------|----|-----------|
| Jumlah Koloni Terbentuk pada Propolis | 0%                   | 4  | 26.50     |
|                                       | 1,0%                 | 4  | 21.75     |
|                                       | 1,2%                 | 4  | 18.75     |
|                                       | 1,4%                 | 4  | 14.75     |
|                                       | 1,6%                 | 4  | 10.75     |
|                                       | 1,8%                 | 4  | 4.50      |
|                                       | 2,0%                 | 4  | 4.50      |
|                                       | Total                | 28 |           |

#### Test Statistics<sup>a,b</sup>

|             | Jumlah Koloni Terbentuk<br>pada Propolis |
|-------------|------------------------------------------|
| Chi-Square  | 25.941                                   |
| df          | 6                                        |
| Asymp. Sig. | .000                                     |

a. Kruskal Wallis Test

b. Grouping Variable: Konsentrasi Propolis

## Uji Mann Whitney

### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 0%                   | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 1,0%                 | 4 | 2.50      | 10.00        |
|                         | Total                | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.309                                      |
| Asymp. Sig. (2-tailed)         | .021                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 0%                   | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 1,2%                 | 4 | 2.50      | 10.00        |
|                         | Total                | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.309                                      |
| Asymp. Sig. (2-tailed)         | .021                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 0%                   | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 1,4%                 | 4 | 2.50      | 10.00        |
|                         | Total                | 8 |           |              |

### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.309                                      |
| Asymp. Sig. (2-tailed)         | .021                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 0%                   | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 1,6%                 | 4 | 2.50      | 10.00        |
|                         | Total                | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.309                                      |
| Asymp. Sig. (2-tailed)         | .021                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 0%                   | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 1,8%                 | 4 | 2.50      | 10.00        |
|                         | Total                | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.460                                      |
| Asymp. Sig. (2-tailed)         | .014                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 0%                   | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 2,0%                 | 4 | 2.50      | 10.00        |
|                         | Total                | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.460                                      |
| Asymp. Sig. (2-tailed)         | .014                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 1,0%                 | 4 | 5.75      | 23.00        |
| Terbentuk pada Propolis | 1,2%                 | 4 | 3.25      | 13.00        |
|                         | Total                | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | 3.000                                       |
| Wilcoxon W                     | 13.000                                      |
| Z                              | -1.443                                      |
| Asymp. Sig. (2-tailed)         | .149                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .200 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 1,0%                 | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 1,4%                 | 4 | 2.50      | 10.00        |
|                         | Total                | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.309                                      |
| Asymp. Sig. (2-tailed)         | .021                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 1,0%                 | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 1,6%                 | 4 | 2.50      | 10.00        |
|                         | Total                | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.309                                      |
| Asymp. Sig. (2-tailed)         | .021                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis



b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 1,0%                 | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 1,8%                 | 4 | 2.50      | 10.00        |
|                         | Total                | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.460                                      |
| Asymp. Sig. (2-tailed)         | .014                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 1,0%                 | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 2,0%                 | 4 | 2.50      | 10.00        |
|                         | Total                | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.460                                      |
| Asymp. Sig. (2-tailed)         | .014                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 1,2%                 | 4 | 6.00      | 24.00        |
| Terbentuk pada Propolis | 1,4%                 | 4 | 3.00      | 12.00        |
|                         | Total                | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | 2.000                                       |
| Wilcoxon W                     | 12.000                                      |
| Z                              | -1.732                                      |
| Asymp. Sig. (2-tailed)         | .083                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .114 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 1,2%                 | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 1,6%                 | 4 | 2.50      | 10.00        |
| Total                   |                      | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.309                                      |
| Asymp. Sig. (2-tailed)         | .021                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 1,2%                 | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 1,8%                 | 4 | 2.50      | 10.00        |
| Total                   |                      | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.460                                      |
| Asymp. Sig. (2-tailed)         | .014                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 1,2%                 | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 2,0%                 | 4 | 2.50      | 10.00        |
| Total                   |                      | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.460                                      |
| Asymp. Sig. (2-tailed)         | .014                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 1,4%                 | 4 | 6.25      | 25.00        |
| Terbentuk pada Propolis | 1,6%                 | 4 | 2.75      | 11.00        |
| Total                   |                      | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | 1.000                                       |
| Wilcoxon W                     | 11.000                                      |
| Z                              | -2.021                                      |
| Asymp. Sig. (2-tailed)         | .043                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .057 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 1,4%                 | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 1,8%                 | 4 | 2.50      | 10.00        |
| Total                   |                      | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.460                                      |
| Asymp. Sig. (2-tailed)         | .014                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 1,4%                 | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 2,0%                 | 4 | 2.50      | 10.00        |
| Total                   |                      | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.460                                      |
| Asymp. Sig. (2-tailed)         | .014                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 1,6%                 | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 1,8%                 | 4 | 2.50      | 10.00        |
| Total                   |                      | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.460                                      |
| Asymp. Sig. (2-tailed)         | .014                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 1,6%                 | 4 | 6.50      | 26.00        |
| Terbentuk pada Propolis | 2,0%                 | 4 | 2.50      | 10.00        |
| Total                   |                      | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | .000                                        |
| Wilcoxon W                     | 10.000                                      |
| Z                              | -2.460                                      |
| Asymp. Sig. (2-tailed)         | .014                                        |
| Exact Sig. [2*(1-tailed Sig.)] | .029 <sup>b</sup>                           |

a. Grouping Variable: Konsentrasi Propolis

b. Not corrected for ties.

#### Ranks

|                         | Konsentrasi Propolis | N | Mean Rank | Sum of Ranks |
|-------------------------|----------------------|---|-----------|--------------|
| Jumlah Koloni           | 1,8%                 | 4 | 4.50      | 18.00        |
| Terbentuk pada Propolis | 2,0%                 | 4 | 4.50      | 18.00        |
| Total                   |                      | 8 |           |              |

#### Test Statistics<sup>a</sup>

|                                | Jumlah Koloni<br>Terbentuk pada<br>Propolis |
|--------------------------------|---------------------------------------------|
| Mann-Whitney U                 | 8.000                                       |
| Wilcoxon W                     | 18.000                                      |
| Z                              | .000                                        |
| Asymp. Sig. (2-tailed)         | 1.000                                       |
| Exact Sig. [2*(1-tailed Sig.)] | 1.000 <sup>b</sup>                          |

a. Grouping Variable: Konsentrasi Propolis



b. Not corrected for ties.

## Uji Pearson

### Correlations

|                      |                     | Konsentrasi Propolis | trn_koloni |
|----------------------|---------------------|----------------------|------------|
| Konsentrasi Propolis | Pearson Correlation | 1                    | -.944**    |
|                      | Sig. (2-tailed)     |                      | .000       |
|                      | N                   | 28                   | 28         |
| trn_koloni           | Pearson Correlation | -.944**              | 1          |
|                      | Sig. (2-tailed)     | .000                 |            |
|                      | N                   | 28                   | 28         |

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

