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## Lampiran 1. Determinasi Tanaman



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Nomor : 337/DET/UPT-LAB/25.03.2022  
 Hal : Hasil determinasi tumbuhan  
 Lamp. : -

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 Universitas Setia Budi, Surakarta  
 Nama sampel : Bawang Dayak/*Eleutherine americana* Merr.

### HASIL DETERMINASI TUMBUHAN

#### Klasifikasi

Kingdom : Plantae  
 Super Divisi : Spermatophyta  
 Divisi : Magnoliophyta  
 Kelas : Magnoliopsida  
 Ordo : Liliales  
 Famili : Iridaceae  
 Genus : *Eleutherine*  
 Species : *Eleutherine americana* Merr/*Eleutherine palmifolia* Merr.

Hasil Determinasi menurut Steenis, C.G.G.J.V, Bloembergen, H, Eyma, P.J. 1992 :  
 1b - 2b - 3b - 4b - 6b - 7b - 9b - 10b - 11a - Golongan 5. Monocotyledoneae.  
 67b - 69b - 70b - 71b - 72b - 73b - 76b - 77b - 79a - 80a - 30. Familia. Iridaceae.  
 1b - 3b - 4a - 5a - 9. Genus *Eleutherine*. 1. *Eleutherine americana* Merr/ *Eleutherine palmifolia* Merr.

#### Deskripsi :

Habitus : Semak, berumpun, tinggi 26 – 50 cm.  
 Akar : Akar serabut.

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- Batang : Batang tumbuh tegak atau merunduk, basah dan berumbi. Umbi berbentuk bulat telur memanjang dan berwarna merah menyala dengan permukaan yang sangat licin, tidak berbau.
- Daun : Daun tunggal, letak berhadapan, warna hijau muda, bentuk pita, pangkal daun runcing (acute), ujung meruncing (acicular), tepi daun rata, permukaan atas dan bawah halus (glabrous), tulang daun sejajar.
- Bunga : Bunga tunggal berwarna putih, terdapat pada ketiak-ketiak daun atas, dalam rumpun-rumpun bunga yang terdiri dari 4-10 bunga, mekar jam 5-7 sore.

Kepala UPT-LAB  
Universitas Setia Budi



Asik Gunawan, Amdk

Surakarta, 25 Maret 2022

Penanggung jawab  
Determinasi Tumbuhan

A handwritten signature in blue ink, consisting of several loops and a long horizontal stroke.

Dra. Dewi Sulistyawati. M.Sc.

**Lampiran 2. Perhitungan persentase bobot kering terhadap bobot basah**

| Berat segar (g) | Berat kering (g) | Rendemen(%) |
|-----------------|------------------|-------------|
| 6400            | 2100             | 32,81       |

Perhitungan persentase bobot kering terhadap bobot basah:

$$\frac{2100 \text{ g}}{6400 \text{ g}} \times 100\% = 32,81 \%$$

**Lampiran 3. Perhitungan persentase rendemen serbuk bawang dayak**

| Berat kering(g) | Bobot serbuk (g) | Rendemen(%) |
|-----------------|------------------|-------------|
| 2100            | 1900             | 90,47%      |

Perhitungan persentase rendemen serbuk:

$$\frac{1900 \text{ g}}{2100 \text{ g}} \times 100\% = 90,47\%$$

**Lampiran 4. Perhitungan persentase kadar air (destilasi) serbuk bawang dayak**

| Replikasi      | Bobot serbuk (g) | Volume air (ml) | Kadar air (%b/v) |
|----------------|------------------|-----------------|------------------|
| 1              | 20               | 1,4             | 7                |
| 2              | 20               | 1,3             | 6,5              |
| 3              | 20               | 1,5             | 7,5              |
| Rata-rata ± SD |                  |                 | 7,00±0,5         |

Perhitungan kadar air serbuk (Destilasi):

Kadar air serbuk

$$: \frac{\text{Volume air (ml)}}{\text{Bobot serbuk}} \times 100\%$$

Replikasi 1

$$: \frac{1,4 \text{ ml}}{20 \text{ g}} \times 100\% = 7\%$$

Replikasi 2

$$: \frac{1,3 \text{ ml}}{20 \text{ g}} \times 100\% = 6,5\%$$

Replikasi 3

$$: \frac{1,5 \text{ ml}}{20 \text{ g}} \times 100\% = 7,5\%$$

Rata- rata

$$: \frac{7 + 6,5 + 7,5 \%}{3} = 7\%$$

**Lampiran 5. Perhitungan persentase rendemen ekstrak bawang dayak**

| Sampel              | Bobot serbuk (g) | Bobot ekstrak (g) | Rendemen (%) |
|---------------------|------------------|-------------------|--------------|
| Serbuk bawang dayak | 1500             | 92                | 6,13         |

Perhitungan rendemen ekstrak kental:

$$\frac{92 \text{ g}}{1500 \text{ g}} \times 100\% = 6,13\%$$

**Lampiran 6. Perhitungan persentase kadar air (gravimetri) ekstrak bawang dayak**

| Replikasi        | Berat crush kosong | Berat crush + ekstrak | Berat crush + ekstrak setelah dioven | Berat ekstrak awal | Bobot ekstrak akhir | Kadar air (%) |
|------------------|--------------------|-----------------------|--------------------------------------|--------------------|---------------------|---------------|
| 1                | 21,525             | 23,5406               | 23,3906                              | 2,0147             | 1,8456              | 8,39          |
| 2                | 21,77              | 23,7953               | 23,6363                              | 2,0253             | 1,8663              | 7,85          |
| 3                | 21,93              | 23,9442               | 23,7882                              | 2,0142             | 1,8582              | 7,74          |
| Rata – rata ± SD |                    |                       |                                      |                    |                     | 7,99±0,34     |

Perhitungan kadar air ekstrak (gravimetri):

Kadar air ekstrak

$$: \frac{\text{Berat sebelum pengeringan} - \text{berat setelah pengeringan (g)}}{\text{Berat sebelum pengeringan (g)}} \times 100\%$$

Replikasi 1

$$: \frac{2,0147 - 1,8456 \text{ g}}{2,0147 \text{ g}} \times 100\% = 8,39\%$$

Replikasi 2

$$: \frac{2,0253 - 1,8663 \text{ g}}{2,0253 \text{ g}} \times 100\% = 7,85\%$$

Replikasi 3

$$: \frac{2,0142 - 1,8582 \text{ g}}{2,0142 \text{ g}} \times 100\% = 7,74\%$$

Rata – rata

$$: \frac{8,39 + 7,85 + 7,74 \%}{3} = 7,99\%$$

### Lampiran 7. Penimbangan bahan pembuatan gel ekstrak bawang dayak

1. - Ekstrak bawang dayak 1%
 
$$: \frac{1 \%}{100 \text{ g}} \times 100\% = 1 \text{ g}$$
 - Ekstrak bawang dayak 5%
 
$$: \frac{5 \%}{100 \text{ g}} \times 100\% = 5 \text{ g}$$
 - Ekstrak bawang dayak 10%
 
$$: \frac{10 \%}{100 \text{ g}} \times 100\% = 10 \text{ g}$$
2. Karbopol
 
$$: \frac{0,5 \%}{100 \text{ g}} \times 100\% = 0,5 \text{ g}$$
3. TEA
 
$$: \frac{0,5 \%}{100 \text{ g}} \times 100\% = 0,5 \text{ g}$$
4. Metil paraben
 
$$: \frac{0,075 \%}{100 \text{ g}} \times 100\% = 0,075 \text{ g}$$
5. Gliserin
 
$$: \frac{30 \%}{100 \text{ g}} \times 100\% = 30 \text{ g}$$
6. Aquadest add 100 gram
  - Konsentrasi 1%
 
$$= 100 \text{ gram} - (1 + 0,5 + 0,5 + 0,075 + 30) \text{ gram}$$

$$= 100 \text{ gram} - 32,075 \text{ gram} = 67,925 \text{ gram}$$
  - Konsentrasi 5%
 
$$= 100 \text{ gram} - (5 + 0,5 + 0,5 + 0,075 + 30) \text{ gram}$$

$$= 100 \text{ gram} - 36,075 \text{ gram} = 63,925 \text{ gram}$$
  - Konsentrasi 10%
 
$$= 100 \text{ gram} - (10 + 0,5 + 0,5 + 0,075 + 30) \text{ gram}$$

$$= 100 \text{ gram} - 41,075 \text{ gram} = 58,925 \text{ gram}$$

**Lampiran 8. Alat-alat penelitian**



*Mouister Balance*



*Viscometer VT – 04 E Rion*



*Uji daya sebar*



*Uji daya lekat*



*Sterling- bidwell*



*pH meter*



*Autoclave*



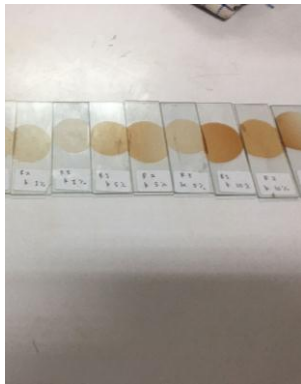
*Lemari pendingin*



Oven



Mikroskop



Uji homogenitas



Rotary Evaporator



Desikator



Laminar Air Flow (LAF)



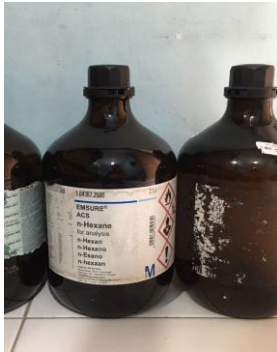
**Lampiran 9. Gambar proses ekstraksi bawang dayak**



Sampel segar



Serbuk bawang dayak



Proses maserasi



Hasil maserasi



Proses pengentalan ekstrak



Ekstrak kental

**Lampiran 10. Gambar pengujian identifikasi kandungan kimia**



Uji saponin



Uji tanin



Triterpenoid/steroid



Uji fenol



Uji alkaloid



Uji flavonoid

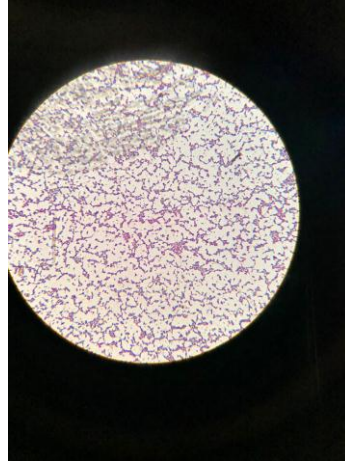


Uji bebas etanol

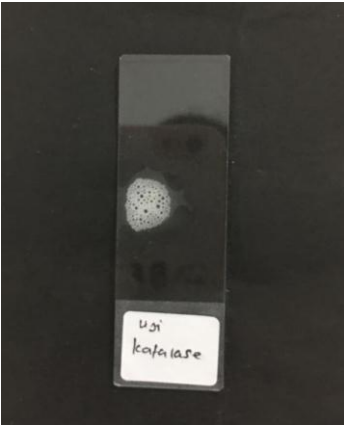
**Lampiran 11. Gambar identifikasi bakteri *Staphylococcus aureus***



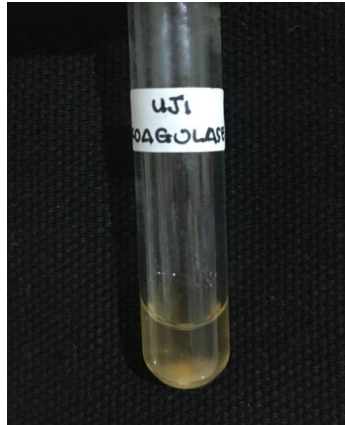
Uji morfologi dengan media MSA



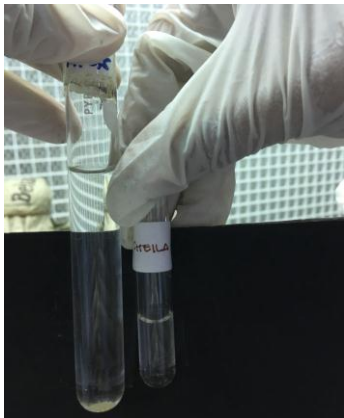
Identifikasi pewarnaan gram



Uji katalase



Uji koagulase

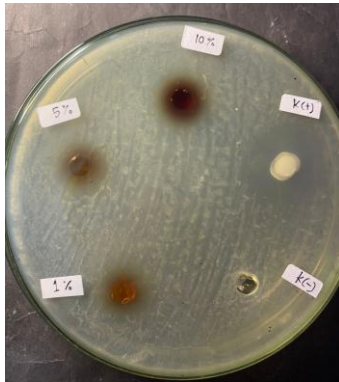


Suspensi bakteri

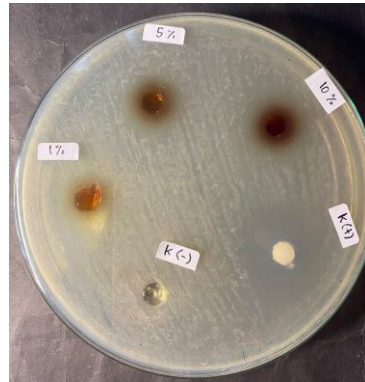


Sediaan gel

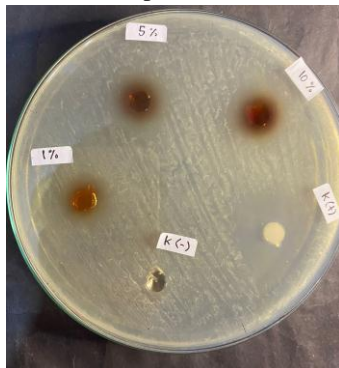
## Lampiran 12. Hasil uji antibakteri sediaan gel ekstrak bawang dayak



Replikasi 1



Replikasi 2



Replikasi 3

### Keterangan:

- F1 : Gel ekstrak bawang dayak 1%  
 F2 : Gel ekstrak bawang dayak 5%  
 F3 : Gel ekstrak bawang dayak 10%  
 Kontrol negatif : Gel tanpa ekstrak  
 Kontrol positif : Gel mediklin 1%

**Lampiran 13. Hasil uji mutu fisik viskositas sediaan gel ekstrak bawang dayak**

| Formula | waktu | Uji viskositas (dPas) |             |             | Rata-rata | SD    |
|---------|-------|-----------------------|-------------|-------------|-----------|-------|
|         |       | Replikasi 1           | Replikasi 2 | Replikasi 3 |           |       |
| F1      | 1     | 310                   | 300         | 310         | 306,22    | ±5,77 |
|         | 21    | 300                   | 290         | 290         | 293,33    | ±5,77 |
| F2      | 1     | 290                   | 290         | 300         | 293,33    | ±5,77 |
|         | 21    | 280                   | 270         | 280         | 276,66    | ±5,77 |
| F3      | 1     | 290                   | 270         | 280         | 280       | ±10   |
|         | 21    | 270                   | 250         | 260         | 260       | ±10   |
| K-      | 1     | 300                   | 320         | 310         | 310       | ±10   |
|         | 21    | 290                   | 310         | 300         | 300       | ±10   |

- Hasil analisis data mutu fisik viskositas gel bawang dayak dengan SPSS

**Tests of Normality**

|            | sampel                  | Kolmogorov-Smirnov <sup>a</sup> |    |      | Shapiro-Wilk |    |       |
|------------|-------------------------|---------------------------------|----|------|--------------|----|-------|
|            |                         | Statistic                       | df | Sig. | Statistic    | df | Sig.  |
| Viskositas | Formula 1 hari 1        | .385                            | 3  | .    | .750         | 3  | .000  |
|            | formula 1 hari 21       | .385                            | 3  | .    | .750         | 3  | .000  |
|            | Formula 2 hari 1        | .385                            | 3  | .    | .750         | 3  | .000  |
|            | formula 2 hari 21       | .385                            | 3  | .    | .750         | 3  | .000  |
|            | formula 3 hari 1        | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|            | formula 3 hari 21       | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|            | kontrol negatif hari 1  | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|            | kontrol negatif hari 21 | .175                            | 3  | .    | 1.000        | 3  | 1.000 |

a. Lilliefors Significance Correction

**Test of Homogeneity of Variances**

Viskositas

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| .229             | 7   | 16  | .972 |

**Kruskall-Wallis****Ranks**

|            | sampel                  | N  | Mean Rank |
|------------|-------------------------|----|-----------|
| Viskositas | Formula 1 hari 1        | 3  | 20.00     |
|            | formula 1 hari 21       | 3  | 13.33     |
|            | Formula 2 hari 1        | 3  | 13.33     |
|            | formula 2 hari 21       | 3  | 6.00      |
|            | formula 3 hari 1        | 3  | 7.50      |
|            | formula 3 hari 21       | 3  | 2.33      |
|            | kontrol negatif hari 1  | 3  | 20.83     |
|            | kontrol negatif hari 21 | 3  | 16.67     |
|            | Total                   | 24 |           |

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

|             | Viskositas |
|-------------|------------|
| Chi-Square  | 19.523     |
| df          | 7          |
| Asymp. Sig. | .007       |

a. Kruskal Wallis Test

b. Grouping Variable:

sampel

**Mann-Whitey Test****Ranks**

|            | formula         | N | Mean Rank | Sum of Ranks |
|------------|-----------------|---|-----------|--------------|
| viskositas | kontrol negatif | 3 | 2.83      | 8.50         |
|            | formula 1       | 3 | 4.17      | 12.50        |
|            | Total           | 6 |           |              |

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

|                                | viskositas        |
|--------------------------------|-------------------|
| Mann-Whitney U                 | 2.500             |
| Wilcoxon W                     | 8.500             |
| Z                              | -.943             |
| Asymp. Sig. (2-tailed)         | .346              |
| Exact Sig. [2*(1-tailed Sig.)] | .400 <sup>b</sup> |

a. Grouping Variable: formula

b. Not corrected for ties.

**Ranks**

|            | formula         | N | Mean Rank | Sum of Ranks |
|------------|-----------------|---|-----------|--------------|
| viskositas | kontrol negatif | 3 | 4.17      | 12.50        |
|            | Formula 2       | 3 | 2.83      | 8.50         |
|            | Total           | 6 |           |              |

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

|                                | viskositas        |
|--------------------------------|-------------------|
| Mann-Whitney U                 | 2.500             |
| Wilcoxon W                     | 8.500             |
| Z                              | -.943             |
| Asymp. Sig. (2-tailed)         | .346              |
| Exact Sig. [2*(1-tailed Sig.)] | .400 <sup>b</sup> |

a. Grouping Variable: formula

b. Not corrected for ties.

**Ranks**

|            | formula         | N | Mean Rank | Sum of Ranks |
|------------|-----------------|---|-----------|--------------|
| viskositas | kontrol negatif | 3 | 4.83      | 14.50        |
|            | Formula 3       | 3 | 2.17      | 6.50         |
|            | Total           | 6 |           |              |

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

|                                | viskositas        |
|--------------------------------|-------------------|
| Mann-Whitney U                 | .500              |
| Wilcoxon W                     | 6.500             |
| Z                              | -1.771            |
| Asymp. Sig. (2-tailed)         | .077              |
| Exact Sig. [2*(1-tailed Sig.)] | .100 <sup>b</sup> |

a. Grouping Variable: formula

b. Not corrected for ties.

**Lampiran 14. Hasil data mutu fisik pH sediaan gel ekstrak bawang dayak**

| Formula | waktu | Uji pH      |             |             | Rata-rata | SD    |
|---------|-------|-------------|-------------|-------------|-----------|-------|
|         |       | Replikasi 1 | Replikasi 2 | Replikasi 3 |           |       |
| F1      | 1     | 5,74        | 5,79        | 5,78        | 5,77      | ±0,02 |
|         | 21    | 5,69        | 5,75        | 5,73        | 5,72      | ±0,03 |
| F2      | 1     | 5,71        | 5,69        | 5,69        | 5,69      | ±0,01 |
|         | 21    | 5,70        | 5,68        | 5,67        | 5,68      | ±0,01 |
| F3      | 1     | 5,65        | 5,61        | 5,63        | 5,63      | ±0,02 |
|         | 21    | 5,62        | 5,58        | 5,59        | 5,59      | ±0,02 |
| K-      | 1     | 6,07        | 6,03        | 6,07        | 6,05      | ±0,02 |
|         | 21    | 6,02        | 5,98        | 6,01        | 6,00      | ±0,02 |

- Hasil analisis data mutu fisik pH gel bawang dayak dengan SPSS

**Tests of Normality**

|       | sampel                  | Kolmogorov-Smirnov <sup>a</sup> |    |      | Shapiro-Wilk |    |       |
|-------|-------------------------|---------------------------------|----|------|--------------|----|-------|
|       |                         | Statistic                       | df | Sig. | Statistic    | df | Sig.  |
| ujiPH | Formula 1 hari 1        | .314                            | 3  | .    | .893         | 3  | .363  |
|       | formula 1 hari 21       | .253                            | 3  | .    | .964         | 3  | .637  |
|       | Formula 2 hari 1        | .314                            | 3  | .    | .893         | 3  | .363  |
|       | formula 2 hari 21       | .253                            | 3  | .    | .964         | 3  | .637  |
|       | formula 3 hari 1        | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|       | formula 3 hari 21       | .292                            | 3  | .    | .923         | 3  | .463  |
|       | kontrol negatif hari 1  | .326                            | 3  | .    | .873         | 3  | .305  |
|       | kontrol negatif hari 21 | .292                            | 3  | .    | .923         | 3  | .463  |

a. Lilliefors Significance Correction

**Test of Homogeneity of Variances**

ujiPH

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| .688             | 7   | 16  | .681 |

**Oneway ANOVA**

**ANOVA**

ujiPH

|                | Sum of Squares | df | Mean Square | F       | Sig. |
|----------------|----------------|----|-------------|---------|------|
| Between Groups | .604           | 7  | .086        | 181.654 | .000 |
| Within Groups  | .008           | 16 | .000        |         |      |
| Total          | .612           | 23 |             |         |      |



## Post Hoc Test

## Multiple Comparisons

Dependent Variable: ujiPH  
Tukey HSD

| (I) sampel             | (J) sampel              | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval |             |
|------------------------|-------------------------|-----------------------|------------|------|-------------------------|-------------|
|                        |                         |                       |            |      | Lower Bound             | Upper Bound |
| Formula 1 hari 1       | formula 1 hari 21       | .04667                | .01780     | .217 | -.0149                  | .1083       |
|                        | Formula 2 hari 1        | .07333*               | .01780     | .014 | .0117                   | .1349       |
|                        | formula 2 hari 21       | .08667*               | .01780     | .003 | .0251                   | .1483       |
|                        | formula 3 hari 1        | .14000*               | .01780     | .000 | .0784                   | .2016       |
|                        | formula 3 hari 21       | .17333*               | .01780     | .000 | .1117                   | .2349       |
|                        | kontrol negatif hari 1  | -.28667*              | .01780     | .000 | -.3483                  | -.2251      |
|                        | kontrol negatif hari 21 | -.23333*              | .01780     | .000 | -.2949                  | -.1717      |
| formula 1 hari 21      | Formula 1 hari 1        | -.04667               | .01780     | .217 | -.1083                  | .0149       |
|                        | Formula 2 hari 1        | .02667                | .01780     | .798 | -.0349                  | .0883       |
|                        | formula 2 hari 21       | .04000                | .01780     | .376 | -.0216                  | .1016       |
|                        | formula 3 hari 1        | .09333*               | .01780     | .002 | .0317                   | .1549       |
|                        | formula 3 hari 21       | .12667*               | .01780     | .000 | .0651                   | .1883       |
|                        | kontrol negatif hari 1  | -.33333*              | .01780     | .000 | -.3949                  | -.2717      |
|                        | kontrol negatif hari 21 | -.28000*              | .01780     | .000 | -.3416                  | -.2184      |
| Formula 2 hari 1       | Formula 1 hari 1        | -.07333*              | .01780     | .014 | -.1349                  | -.0117      |
|                        | formula 1 hari 21       | -.02667               | .01780     | .798 | -.0883                  | .0349       |
|                        | formula 2 hari 21       | .01333                | .01780     | .994 | -.0483                  | .0749       |
|                        | formula 3 hari 1        | .06667*               | .01780     | .029 | .0051                   | .1283       |
|                        | formula 3 hari 21       | .10000*               | .01780     | .001 | .0384                   | .1616       |
|                        | kontrol negatif hari 1  | -.36000*              | .01780     | .000 | -.4216                  | -.2984      |
|                        | kontrol negatif hari 21 | -.30667*              | .01780     | .000 | -.3683                  | -.2451      |
| formula 2 hari 21      | Formula 1 hari 1        | -.08667*              | .01780     | .003 | -.1483                  | -.0251      |
|                        | formula 1 hari 21       | -.04000               | .01780     | .376 | -.1016                  | .0216       |
|                        | Formula 2 hari 1        | -.01333               | .01780     | .994 | -.0749                  | .0483       |
|                        | formula 3 hari 1        | .05333                | .01780     | .116 | -.0083                  | .1149       |
|                        | formula 3 hari 21       | .08667*               | .01780     | .003 | .0251                   | .1483       |
|                        | kontrol negatif hari 1  | -.37333*              | .01780     | .000 | -.4349                  | -.3117      |
|                        | kontrol negatif hari 21 | -.32000*              | .01780     | .000 | -.3816                  | -.2584      |
| formula 3 hari 1       | Formula 1 hari 1        | -.14000*              | .01780     | .000 | -.2016                  | -.0784      |
|                        | formula 1 hari 21       | -.09333*              | .01780     | .002 | -.1549                  | -.0317      |
|                        | Formula 2 hari 1        | -.06667*              | .01780     | .029 | -.1283                  | -.0051      |
|                        | formula 2 hari 21       | -.05333               | .01780     | .116 | -.1149                  | .0083       |
|                        | formula 3 hari 21       | .03333                | .01780     | .585 | -.0283                  | .0949       |
|                        | kontrol negatif hari 1  | -.42667*              | .01780     | .000 | -.4883                  | -.3651      |
|                        | kontrol negatif hari 21 | -.37333*              | .01780     | .000 | -.4349                  | -.3117      |
| formula 3 hari 21      | Formula 1 hari 1        | -.17333*              | .01780     | .000 | -.2349                  | -.1117      |
|                        | formula 1 hari 21       | -.12667*              | .01780     | .000 | -.1883                  | -.0651      |
|                        | Formula 2 hari 1        | -.10000*              | .01780     | .001 | -.1616                  | -.0384      |
|                        | formula 2 hari 21       | -.08667*              | .01780     | .003 | -.1483                  | -.0251      |
|                        | formula 3 hari 1        | -.03333               | .01780     | .585 | -.0949                  | .0283       |
|                        | kontrol negatif hari 1  | -.46000*              | .01780     | .000 | -.5216                  | -.3984      |
|                        | kontrol negatif hari 21 | -.40667*              | .01780     | .000 | -.4683                  | -.3451      |
| kontrol negatif hari 1 | Formula 1 hari 1        | .28667*               | .01780     | .000 | .2251                   | .3483       |
|                        | formula 1 hari 21       | .33333*               | .01780     | .000 | .2717                   | .3949       |

|                         |                         |         |        |      |        |       |
|-------------------------|-------------------------|---------|--------|------|--------|-------|
|                         | Formula 2 hari 1        | .36000* | .01780 | .000 | .2984  | .4216 |
|                         | formula 2 hari 21       | .37333* | .01780 | .000 | .3117  | .4349 |
|                         | formula 3 hari 1        | .42667* | .01780 | .000 | .3651  | .4883 |
|                         | formula 3 hari 21       | .46000* | .01780 | .000 | .3984  | .5216 |
|                         | kontrol negatif hari 21 | .05333  | .01780 | .116 | -.0083 | .1149 |
|                         | Formula 1 hari 1        | .23333* | .01780 | .000 | .1717  | .2949 |
|                         | formula 1 hari 21       | .28000* | .01780 | .000 | .2184  | .3416 |
| kontrol negatif hari 21 | Formula 2 hari 1        | .30667* | .01780 | .000 | .2451  | .3683 |
|                         | formula 2 hari 21       | .32000* | .01780 | .000 | .2584  | .3816 |
|                         | formula 3 hari 1        | .37333* | .01780 | .000 | .3117  | .4349 |
|                         | formula 3 hari 21       | .40667* | .01780 | .000 | .3451  | .4683 |
|                         | kontrol negatif hari 1  | -.05333 | .01780 | .116 | -.1149 | .0083 |

\*. The mean difference is significant at the 0.05 level.

## Tuckey

### ujiPH

Tukey HSD<sup>a</sup>

| sampel                  | N | Subset for alpha = 0.05 |        |        |        |        |
|-------------------------|---|-------------------------|--------|--------|--------|--------|
|                         |   | 1                       | 2      | 3      | 4      | 5      |
| formula 3 hari 21       | 3 | 5.5967                  |        |        |        |        |
| formula 3 hari 1        | 3 | 5.6300                  | 5.6300 |        |        |        |
| formula 2 hari 21       | 3 |                         | 5.6833 | 5.6833 |        |        |
| Formula 2 hari 1        | 3 |                         |        | 5.6967 |        |        |
| formula 1 hari 21       | 3 |                         |        | 5.7233 | 5.7233 |        |
| Formula 1 hari 1        | 3 |                         |        |        | 5.7700 |        |
| kontrol negatif hari 21 | 3 |                         |        |        |        | 6.0033 |
| kontrol negatif hari 1  | 3 |                         |        |        |        | 6.0567 |
| Sig.                    |   | .585                    | .116   | .376   | .217   | .116   |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**Lampiran 15. Hasil data mutu fisik daya sebar sediaan gel ekstrak  
bawang dayak**

| Formula | waktu | Beban<br>(g) | Uji Daya Sebar |                |                | Rata-<br>rata | SD    |
|---------|-------|--------------|----------------|----------------|----------------|---------------|-------|
|         |       |              | Replikasi<br>1 | Replikasi<br>2 | Replikasi<br>3 |               |       |
| F1      | 1     | 0            | 3,3            | 3,4            | 3,2            | 3,3           | ±0,1  |
|         |       | 50           | 3,7            | 3,6            | 3,5            | 3,6           | ±0,1  |
|         |       | 100          | 4,1            | 3,9            | 4              | 4             | ±0,1  |
|         |       | 150          | 4,6            | 4,3            | 4,4            | 4,43          | ±0,15 |
|         |       | 200          | 4,8            | 4,7            | 4,6            | 4,7           | ±0,1  |
|         | 21    | 0            | 3,9            | 4              | 3,8            | 3,9           | ±0,1  |
|         |       | 50           | 4,3            | 4,5            | 4,6            | 4,46          | ±0,15 |
|         |       | 100          | 4,7            | 4,6            | 4,8            | 4,7           | ±0,1  |
|         |       | 150          | 5,3            | 5,4            | 5,2            | 5,3           | ±0,1  |
|         |       | 200          | 5,5            | 5,6            | 5,4            | 5,5           | ±0,1  |
| F2      | 1     | 0            | 3,1            | 3,2            | 3,3            | 3,2           | ±0,1  |
|         |       | 50           | 3,6            | 3,5            | 3,7            | 3,6           | ±0,1  |
|         |       | 100          | 3,9            | 3,8            | 3,7            | 3,8           | ±0,1  |
|         |       | 150          | 4,3            | 4,1            | 4,2            | 4,2           | ±0,1  |
|         |       | 200          | 4,8            | 4,7            | 4,9            | 4,8           | ±0,1  |
|         | 21    | 0            | 4,1            | 4,2            | 4,3            | 4,2           | ±0,1  |
|         |       | 50           | 4,6            | 4,5            | 4,7            | 4,6           | ±0,1  |
|         |       | 100          | 4,9            | 4,8            | 4,7            | 4,8           | ±0,1  |
|         |       | 150          | 5,3            | 5,1            | 5,2            | 5,2           | ±0,1  |
|         |       | 200          | 5,8            | 5,7            | 5,9            | 5,8           | ±0,1  |
| F3      | 1     | 0            | 3,3            | 3,4            | 3,2            | 3,3           | ±0,1  |
|         |       | 50           | 3,5            | 3,6            | 3,7            | 3,6           | ±0,1  |
|         |       | 100          | 4,1            | 4,2            | 4,3            | 4,2           | ±0,1  |
|         |       | 150          | 4,6            | 4,5            | 4,4            | 4,5           | ±0,1  |
|         |       | 200          | 5              | 4,9            | 4,8            | 4,9           | ±0,1  |
|         | 21    | 0            | 4,3            | 4,4            | 4,2            | 4,3           | ±0,1  |
|         |       | 50           | 4,5            | 4,6            | 4,7            | 4,6           | ±0,1  |
|         |       | 100          | 5,1            | 5,2            | 5,3            | 5,2           | ±0,1  |
|         |       | 150          | 5,6            | 5,5            | 5,4            | 5,5           | ±0,1  |
|         |       | 200          | 6              | 5,8            | 5,9            | 5,9           | ±0,1  |
| K-      | 1     | 0            | 2,7            | 2,6            | 2,8            | 2,7           | ±0,1  |
|         |       | 50           | 3,1            | 3              | 2,9            | 3             | ±0,1  |
|         |       | 100          | 3,6            | 3,5            | 3,4            | 3,5           | ±0,1  |
|         |       | 150          | 3,9            | 3,7            | 3,8            | 3,8           | ±0,1  |
|         |       | 200          | 4              | 3,9            | 4              | 3,96          | ±0,05 |
|         | 21    | 0            | 3,1            | 3,3            | 3,4            | 3,26          | ±0,15 |
|         |       | 50           | 4              | 4,1            | 4,2            | 4,1           | ±0,1  |
|         |       | 100          | 4,4            | 4,3            | 4,2            | 4,3           | ±0,1  |
|         |       | 150          | 4,9            | 4,8            | 5              | 4,9           | ±0,1  |
|         |       | 200          | 5,2            | 5,4            | 5,3            | 5,3           | ±0,1  |

- Hasil analisis data mutu fisik daya sebar gel bawang dayak dengan SPSS

### Tests of Normality

|                  | Formula           | Kolmogorov-Smirnov <sup>a</sup> |    |      | Shapiro-Wilk |    |       |
|------------------|-------------------|---------------------------------|----|------|--------------|----|-------|
|                  |                   | Statistic                       | df | Sig. | Statistic    | df | Sig.  |
| DayaSebarH1      | F1 Tanpa Beban    | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F1 Beban 50 gram  | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F1 Beban 100 gram | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F1 Beban 150 gram | .253                            | 3  | .    | .964         | 3  | .637  |
|                  | F1 Beban 200 gram | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F2 Tanpa Beban    | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F2 Beban 50 gram  | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F2 Beban 100 gram | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F2 Beban 150 gram | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F2 Beban 200 gram | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F3 Tanpa Beban    | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F3 Beban 50 gram  | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F3 Beban 100 gram | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F3 Beban 150 gram | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F3 Beban 200 gram | .349                            | 3  | .    | .832         | 3  | .194  |
|                  | K- Tanpa Beban    | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | K- Beban 50 gram  | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | K- Beban 100 gram | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | K- Beban 150 Gram | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | K- Beban 200 gram | .385                            | 3  | .    | .750         | 3  | .000  |
| DayaSebarH2<br>1 | F1 Tanpa Beban    | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F1 Beban 50 gram  | .253                            | 3  | .    | .964         | 3  | .637  |
|                  | F1 Beban 100 gram | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F1 Beban 150 gram | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F1 Beban 200 gram | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F2 Tanpa Beban    | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F2 Beban 50 gram  | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F2 Beban 100 gram | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F2 Beban 150 gram | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F2 Beban 200 gram | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F3 Tanpa Beban    | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                  | F3 Beban 50 gram  | .175                            | 3  | .    | 1.000        | 3  | 1.000 |

|                   |      |   |   |       |   |       |
|-------------------|------|---|---|-------|---|-------|
| F3 Beban 100 gram | .175 | 3 | . | 1.000 | 3 | 1.000 |
| F3 Beban 150 gram | .175 | 3 | . | 1.000 | 3 | 1.000 |
| F3 Beban 200 gram | .175 | 3 | . | 1.000 | 3 | 1.000 |
| K- Tanpa Beban    | .385 | 3 | . | .750  | 3 | .000  |
| K- Beban 50 gram  | .175 | 3 | . | 1.000 | 3 | 1.000 |
| K- Beban 100 gram | .175 | 3 | . | 1.000 | 3 | 1.000 |
| K- Beban 150 Gram | .175 | 3 | . | 1.000 | 3 | 1.000 |
| K- Beban 200 gram | .175 | 3 | . | 1.000 | 3 | 1.000 |

a. Lilliefors Significance Correction

### Test of Homogeneity of Variances

|         | Levene Statistic | df1 | df2 | Sig.  |
|---------|------------------|-----|-----|-------|
| gram0   | .211             | 7   | 16  | .978  |
| gram50  | .211             | 7   | 16  | .978  |
| gram100 | .000             | 7   | 16  | 1.000 |
| gram150 | .211             | 7   | 16  | .978  |
| gram200 | .063             | 7   | 16  | .999  |

### Oneway ANOVA

#### ANOVA

|         |                | Sum of Squares | df | Mean Square | F       | Sig. |
|---------|----------------|----------------|----|-------------|---------|------|
| gram0   | Between Groups | 6.453          | 7  | .922        | 79.015  | .000 |
|         | Within Groups  | .187           | 16 | .012        |         |      |
|         | Total          | 6.640          | 23 |             |         |      |
| gram50  | Between Groups | 7.213          | 7  | 1.030       | 88.321  | .000 |
|         | Within Groups  | .187           | 16 | .012        |         |      |
|         | Total          | 7.400          | 23 |             |         |      |
| gram100 | Between Groups | 6.626          | 7  | .947        | 94.661  | .000 |
|         | Within Groups  | .160           | 16 | .010        |         |      |
|         | Total          | 6.786          | 23 |             |         |      |
| gram150 | Between Groups | 7.363          | 7  | 1.052       | 90.158  | .000 |
|         | Within Groups  | .187           | 16 | .012        |         |      |
|         | Total          | 7.550          | 23 |             |         |      |
| gram200 | Between Groups | 8.712          | 7  | 1.245       | 135.766 | .000 |
|         | Within Groups  | .147           | 16 | .009        |         |      |
|         | Total          | 8.858          | 23 |             |         |      |

## Post Hoc Test

### Multiple Comparisons

Tukey HSD

| Dependent Variable | (I) dayasebar     | (J) dayasebar           | Mean Difference (I-J) | Std. Error | Sig.  | 95% Confidence Interval |             |
|--------------------|-------------------|-------------------------|-----------------------|------------|-------|-------------------------|-------------|
|                    |                   |                         |                       |            |       | Lower Bound             | Upper Bound |
| gram0              | formula 1 hari 1  | formula 1 hari 21       | -.60000*              | .08819     | .000  | -.9053                  | -.2947      |
|                    |                   | formula 2 hari 1        | .10000                | .08819     | .939  | -.2053                  | .4053       |
|                    |                   | formula 2 hari 21       | -.90000*              | .08819     | .000  | -1.2053                 | -.5947      |
|                    |                   | formula 3 hari 1        | .00000                | .08819     | 1.000 | -.3053                  | .3053       |
|                    |                   | formula 3 hari 21       | -1.00000*             | .08819     | .000  | -1.3053                 | -.6947      |
|                    |                   | kontrol negatif hari 1  | .60000*               | .08819     | .000  | .2947                   | .9053       |
|                    |                   | kontrol negatif hari 21 | .03333                | .08819     | 1.000 | -.2720                  | .3387       |
|                    |                   | formula 1 hari 1        | .60000*               | .08819     | .000  | .2947                   | .9053       |
|                    | formula 1 hari 21 | formula 2 hari 1        | .70000*               | .08819     | .000  | .3947                   | 1.0053      |
|                    |                   | formula 2 hari 21       | -.30000               | .08819     | .056  | -.6053                  | .0053       |
|                    |                   | formula 3 hari 1        | .60000*               | .08819     | .000  | .2947                   | .9053       |
|                    |                   | formula 3 hari 21       | -.40000*              | .08819     | .006  | -.7053                  | -.0947      |
|                    |                   | kontrol negatif hari 1  | 1.20000*              | .08819     | .000  | .8947                   | 1.5053      |
|                    |                   | kontrol negatif hari 21 | .63333*               | .08819     | .000  | .3280                   | .9387       |
|                    |                   | formula 1 hari 1        | -.10000               | .08819     | .939  | -.4053                  | .2053       |
|                    |                   | formula 1 hari 21       | -.70000*              | .08819     | .000  | -1.0053                 | -.3947      |
|                    | formula 2 hari 1  | formula 2 hari 21       | -1.00000*             | .08819     | .000  | -1.3053                 | -.6947      |
|                    |                   | formula 3 hari 1        | -.10000               | .08819     | .939  | -.4053                  | .2053       |
|                    |                   | formula 3 hari 21       | -1.10000*             | .08819     | .000  | -1.4053                 | -.7947      |
|                    |                   | kontrol negatif hari 1  | .50000*               | .08819     | .001  | .1947                   | .8053       |
|                    |                   | kontrol negatif hari 21 | -.06667               | .08819     | .993  | -.3720                  | .2387       |
|                    |                   | formula 2 hari 21       | .90000*               | .08819     | .000  | .5947                   | 1.2053      |

|                        |                         |           |        |       |         |         |
|------------------------|-------------------------|-----------|--------|-------|---------|---------|
|                        | formula 1 hari 1        | .30000    | .08819 | .056  | -.0053  | .6053   |
|                        | formula 2 hari 1        | 1.00000*  | .08819 | .000  | .6947   | 1.3053  |
|                        | formula 3 hari 1        | .90000*   | .08819 | .000  | .5947   | 1.2053  |
|                        | formula 3 hari 21       | -.10000   | .08819 | .939  | -.4053  | .2053   |
|                        | kontrol negatif hari 1  | 1.50000*  | .08819 | .000  | 1.1947  | 1.8053  |
|                        | kontrol negatif hari 21 | .93333*   | .08819 | .000  | .6280   | 1.2387  |
|                        | formula 1 hari 1        | .00000    | .08819 | 1.000 | -.3053  | .3053   |
|                        | formula 1 hari 21       | -.60000*  | .08819 | .000  | -.9053  | -.2947  |
|                        | formula 2 hari 1        | .10000    | .08819 | .939  | -.2053  | .4053   |
| formula 3 hari 1       | formula 2 hari 21       | -.90000*  | .08819 | .000  | -1.2053 | -.5947  |
|                        | formula 3 hari 21       | -1.00000* | .08819 | .000  | -1.3053 | -.6947  |
|                        | kontrol negatif hari 1  | .60000*   | .08819 | .000  | .2947   | .9053   |
|                        | kontrol negatif hari 21 | .03333    | .08819 | 1.000 | -.2720  | .3387   |
|                        | formula 1 hari 1        | 1.00000*  | .08819 | .000  | .6947   | 1.3053  |
|                        | formula 1 hari 21       | .40000*   | .08819 | .006  | .0947   | .7053   |
|                        | formula 2 hari 1        | 1.10000*  | .08819 | .000  | .7947   | 1.4053  |
| formula 3 hari 21      | formula 2 hari 21       | .10000    | .08819 | .939  | -.2053  | .4053   |
|                        | formula 3 hari 1        | 1.00000*  | .08819 | .000  | .6947   | 1.3053  |
|                        | kontrol negatif hari 1  | 1.60000*  | .08819 | .000  | 1.2947  | 1.9053  |
|                        | kontrol negatif hari 21 | 1.03333*  | .08819 | .000  | .7280   | 1.3387  |
|                        | formula 1 hari 1        | -.60000*  | .08819 | .000  | -.9053  | -.2947  |
|                        | formula 1 hari 21       | -1.20000* | .08819 | .000  | -1.5053 | -.8947  |
| kontrol negatif hari 1 | formula 2 hari 1        | -.50000*  | .08819 | .001  | -.8053  | -.1947  |
|                        | formula 2 hari 21       | -1.50000* | .08819 | .000  | -1.8053 | -1.1947 |
|                        | formula 3 hari 1        | -.60000*  | .08819 | .000  | -.9053  | -.2947  |

|        |                         |                         |           |        |       |         |         |
|--------|-------------------------|-------------------------|-----------|--------|-------|---------|---------|
| gram50 |                         | formula 3 hari 21       | -1.60000* | .08819 | .000  | -1.9053 | -1.2947 |
|        |                         | kontrol negatif hari 21 | -.56667*  | .08819 | .000  | -.8720  | -.2613  |
|        |                         | formula 1 hari 1        | -.03333   | .08819 | 1.000 | -.3387  | .2720   |
|        |                         | formula 1 hari 21       | -.63333*  | .08819 | .000  | -.9387  | -.3280  |
|        |                         | formula 2 hari 1        | .06667    | .08819 | .993  | -.2387  | .3720   |
|        | kontrol negatif hari 21 | formula 2 hari 21       | -.93333*  | .08819 | .000  | -1.2387 | -.6280  |
|        |                         | formula 3 hari 1        | -.03333   | .08819 | 1.000 | -.3387  | .2720   |
|        |                         | formula 3 hari 21       | -1.03333* | .08819 | .000  | -1.3387 | -.7280  |
|        |                         | kontrol negatif hari 1  | .56667*   | .08819 | .000  | .2613   | .8720   |
|        |                         | formula 1 hari 21       | -.86667*  | .08819 | .000  | -1.1720 | -.5613  |
|        |                         | formula 2 hari 1        | .00000    | .08819 | 1.000 | -.3053  | .3053   |
|        |                         | formula 2 hari 21       | -1.00000* | .08819 | .000  | -1.3053 | -.6947  |
|        | formula 1 hari 1        | formula 3 hari 1        | .00000    | .08819 | 1.000 | -.3053  | .3053   |
|        |                         | formula 3 hari 21       | -1.00000* | .08819 | .000  | -1.3053 | -.6947  |
|        |                         | kontrol negatif hari 1  | .60000*   | .08819 | .000  | .2947   | .9053   |
|        |                         | kontrol negatif hari 21 | -.50000*  | .08819 | .001  | -.8053  | -.1947  |
|        |                         | formula 1 hari 1        | .86667*   | .08819 | .000  | .5613   | 1.1720  |
|        |                         | formula 2 hari 1        | .86667*   | .08819 | .000  | .5613   | 1.1720  |
|        |                         | formula 2 hari 21       | -.13333   | .08819 | .791  | -.4387  | .1720   |
|        | formula 1 hari 21       | formula 3 hari 1        | .86667*   | .08819 | .000  | .5613   | 1.1720  |
|        |                         | formula 3 hari 21       | -.13333   | .08819 | .791  | -.4387  | .1720   |
|        |                         | kontrol negatif hari 1  | 1.46667*  | .08819 | .000  | 1.1613  | 1.7720  |
|        |                         | kontrol negatif hari 21 | .36667*   | .08819 | .013  | .0613   | .6720   |
|        |                         | formula 1 hari 1        | .00000    | .08819 | 1.000 | -.3053  | .3053   |
|        | formula 2 hari 1        | formula 1 hari 21       | -.86667*  | .08819 | .000  | -1.1720 | -.5613  |
|        |                         | formula 2 hari 21       | -1.00000* | .08819 | .000  | -1.3053 | -.6947  |
|        |                         | formula 3 hari 1        | .00000    | .08819 | 1.000 | -.3053  | .3053   |



|                              |                               |           |        |       |         |         |
|------------------------------|-------------------------------|-----------|--------|-------|---------|---------|
|                              | formula 3<br>hari 21          | -1.00000* | .08819 | .000  | -1.3053 | -.6947  |
|                              | kontrol<br>negatif hari 1     | .60000*   | .08819 | .000  | .2947   | .9053   |
|                              | kontrol<br>negatif hari<br>21 | -.50000*  | .08819 | .001  | -.8053  | -.1947  |
|                              | formula 1<br>hari 1           | 1.00000*  | .08819 | .000  | .6947   | 1.3053  |
|                              | formula 1<br>hari 21          | .13333    | .08819 | .791  | -.1720  | .4387   |
|                              | formula 2<br>hari 1           | 1.00000*  | .08819 | .000  | .6947   | 1.3053  |
| formula 2<br>hari 21         | formula 3<br>hari 1           | 1.00000*  | .08819 | .000  | .6947   | 1.3053  |
|                              | formula 3<br>hari 21          | .00000    | .08819 | 1.000 | -.3053  | .3053   |
|                              | kontrol<br>negatif hari 1     | 1.60000*  | .08819 | .000  | 1.2947  | 1.9053  |
|                              | kontrol<br>negatif hari<br>21 | .50000*   | .08819 | .001  | .1947   | .8053   |
|                              | formula 1<br>hari 1           | .00000    | .08819 | 1.000 | -.3053  | .3053   |
|                              | formula 1<br>hari 21          | -.86667*  | .08819 | .000  | -1.1720 | -.5613  |
|                              | formula 2<br>hari 1           | .00000    | .08819 | 1.000 | -.3053  | .3053   |
| formula 3<br>hari 1          | formula 2<br>hari 21          | -1.00000* | .08819 | .000  | -1.3053 | -.6947  |
|                              | formula 3<br>hari 21          | -1.00000* | .08819 | .000  | -1.3053 | -.6947  |
|                              | kontrol<br>negatif hari 1     | .60000*   | .08819 | .000  | .2947   | .9053   |
|                              | kontrol<br>negatif hari<br>21 | -.50000*  | .08819 | .001  | -.8053  | -.1947  |
|                              | formula 1<br>hari 1           | 1.00000*  | .08819 | .000  | .6947   | 1.3053  |
|                              | formula 1<br>hari 21          | .13333    | .08819 | .791  | -.1720  | .4387   |
|                              | formula 2<br>hari 1           | 1.00000*  | .08819 | .000  | .6947   | 1.3053  |
| formula 3<br>hari 21         | formula 2<br>hari 21          | .00000    | .08819 | 1.000 | -.3053  | .3053   |
|                              | formula 3<br>hari 1           | 1.00000*  | .08819 | .000  | .6947   | 1.3053  |
|                              | kontrol<br>negatif hari 1     | 1.60000*  | .08819 | .000  | 1.2947  | 1.9053  |
|                              | kontrol<br>negatif hari<br>21 | .50000*   | .08819 | .001  | .1947   | .8053   |
| kontrol<br>negatif<br>hari 1 | formula 1<br>hari 1           | -.60000*  | .08819 | .000  | -.9053  | -.2947  |
|                              | formula 1<br>hari 21          | -1.46667* | .08819 | .000  | -1.7720 | -1.1613 |
|                              | formula 2<br>hari 1           | -.60000*  | .08819 | .000  | -.9053  | -.2947  |

|                |                |           |        |         |         |         |
|----------------|----------------|-----------|--------|---------|---------|---------|
| gram100        | formula 2      | -1.60000* | .08819 | .000    | -1.9053 | -1.2947 |
|                | hari 21        |           |        |         |         |         |
|                | formula 3      | -.60000*  | .08819 | .000    | -.9053  | -.2947  |
|                | hari 1         |           |        |         |         |         |
|                | formula 3      | -1.60000* | .08819 | .000    | -1.9053 | -1.2947 |
|                | hari 21        |           |        |         |         |         |
|                | kontrol        | -1.10000* | .08819 | .000    | -1.4053 | -.7947  |
|                | negatif hari   |           |        |         |         |         |
|                | 21             |           |        |         |         |         |
|                | formula 1      | .50000*   | .08819 | .001    | .1947   | .8053   |
|                | hari 1         |           |        |         |         |         |
|                | formula 1      | -.36667*  | .08819 | .013    | -.6720  | -.0613  |
|                | hari 21        |           |        |         |         |         |
|                | formula 2      | .50000*   | .08819 | .001    | .1947   | .8053   |
|                | hari 1         |           |        |         |         |         |
|                | formula 2      | -.50000*  | .08819 | .001    | -.8053  | -.1947  |
|                | hari 21        |           |        |         |         |         |
|                | formula 3      | .50000*   | .08819 | .001    | .1947   | .8053   |
|                | hari 1         |           |        |         |         |         |
|                | formula 3      | -.50000*  | .08819 | .001    | -.8053  | -.1947  |
|                | hari 21        |           |        |         |         |         |
|                | kontrol        | 1.10000*  | .08819 | .000    | .7947   | 1.4053  |
|                | negatif hari 1 |           |        |         |         |         |
|                | formula 1      | -.70000*  | .08165 | .000    | -.9827  | -.4173  |
|                | hari 21        |           |        |         |         |         |
|                | formula 2      | .20000    | .08165 | .283    | -.0827  | .4827   |
|                | hari 1         |           |        |         |         |         |
|                | formula 2      | -.80000*  | .08165 | .000    | -1.0827 | -.5173  |
|                | hari 21        |           |        |         |         |         |
|                | formula 3      | -.20000   | .08165 | .283    | -.4827  | .0827   |
| hari 1         |                |           |        |         |         |         |
| formula 3      | -1.20000*      | .08165    | .000   | -1.4827 | -.9173  |         |
| hari 21        |                |           |        |         |         |         |
| kontrol        | .50000*        | .08165    | .000   | .2173   | .7827   |         |
| negatif hari 1 |                |           |        |         |         |         |
| kontrol        | -.30000*       | .08165    | .033   | -.5827  | -.0173  |         |
| negatif hari   |                |           |        |         |         |         |
| 21             |                |           |        |         |         |         |
| formula 1      | .70000*        | .08165    | .000   | .4173   | .9827   |         |
| hari 1         |                |           |        |         |         |         |
| formula 2      | .90000*        | .08165    | .000   | .6173   | 1.1827  |         |
| hari 1         |                |           |        |         |         |         |
| formula 2      | -.10000        | .08165    | .913   | -.3827  | .1827   |         |
| hari 21        |                |           |        |         |         |         |
| formula 3      | .50000*        | .08165    | .000   | .2173   | .7827   |         |
| hari 1         |                |           |        |         |         |         |
| formula 3      | -.50000*       | .08165    | .000   | -.7827  | -.2173  |         |
| hari 21        |                |           |        |         |         |         |
| kontrol        | 1.20000*       | .08165    | .000   | .9173   | 1.4827  |         |
| negatif hari 1 |                |           |        |         |         |         |
| kontrol        | .40000*        | .08165    | .003   | .1173   | .6827   |         |
| negatif hari   |                |           |        |         |         |         |
| 21             |                |           |        |         |         |         |
| formula 1      | -.20000        | .08165    | .283   | -.4827  | .0827   |         |
| hari 1         |                |           |        |         |         |         |
| formula 1      | -.90000*       | .08165    | .000   | -1.1827 | -.6173  |         |
| hari 21        |                |           |        |         |         |         |
| formula 2      | -1.00000*      | .08165    | .000   | -1.2827 | -.7173  |         |
| hari 21        |                |           |        |         |         |         |

|                              |                               |           |        |      |         |         |
|------------------------------|-------------------------------|-----------|--------|------|---------|---------|
|                              | formula 3<br>hari 1           | -40000*   | .08165 | .003 | -.6827  | -.1173  |
|                              | formula 3<br>hari 21          | -1.40000* | .08165 | .000 | -1.6827 | -1.1173 |
|                              | kontrol<br>negatif hari 1     | .30000*   | .08165 | .033 | .0173   | .5827   |
|                              | kontrol<br>negatif hari<br>21 | -.50000*  | .08165 | .000 | -.7827  | -.2173  |
|                              | formula 1<br>hari 1           | .80000*   | .08165 | .000 | .5173   | 1.0827  |
|                              | formula 1<br>hari 21          | .10000    | .08165 | .913 | -.1827  | .3827   |
|                              | formula 2<br>hari 1           | 1.00000*  | .08165 | .000 | .7173   | 1.2827  |
| formula 2<br>hari 21         | formula 3<br>hari 1           | .60000*   | .08165 | .000 | .3173   | .8827   |
|                              | formula 3<br>hari 21          | -.40000*  | .08165 | .003 | -.6827  | -.1173  |
|                              | kontrol<br>negatif hari 1     | 1.30000*  | .08165 | .000 | 1.0173  | 1.5827  |
|                              | kontrol<br>negatif hari<br>21 | .50000*   | .08165 | .000 | .2173   | .7827   |
|                              | formula 1<br>hari 1           | .20000    | .08165 | .283 | -.0827  | .4827   |
|                              | formula 1<br>hari 21          | -.50000*  | .08165 | .000 | -.7827  | -.2173  |
|                              | formula 2<br>hari 1           | .40000*   | .08165 | .003 | .1173   | .6827   |
| formula 3<br>hari 1          | formula 2<br>hari 21          | -.60000*  | .08165 | .000 | -.8827  | -.3173  |
|                              | formula 3<br>hari 21          | -1.00000* | .08165 | .000 | -1.2827 | -.7173  |
|                              | kontrol<br>negatif hari 1     | .70000*   | .08165 | .000 | .4173   | .9827   |
|                              | kontrol<br>negatif hari<br>21 | -.10000   | .08165 | .913 | -.3827  | .1827   |
|                              | formula 1<br>hari 1           | 1.20000*  | .08165 | .000 | .9173   | 1.4827  |
|                              | formula 1<br>hari 21          | .50000*   | .08165 | .000 | .2173   | .7827   |
|                              | formula 2<br>hari 1           | 1.40000*  | .08165 | .000 | 1.1173  | 1.6827  |
| formula 3<br>hari 21         | formula 2<br>hari 21          | .40000*   | .08165 | .003 | .1173   | .6827   |
|                              | formula 3<br>hari 1           | 1.00000*  | .08165 | .000 | .7173   | 1.2827  |
|                              | kontrol<br>negatif hari 1     | 1.70000*  | .08165 | .000 | 1.4173  | 1.9827  |
|                              | kontrol<br>negatif hari<br>21 | .90000*   | .08165 | .000 | .6173   | 1.1827  |
| kontrol<br>negatif<br>hari 1 | formula 1<br>hari 1           | -.50000*  | .08165 | .000 | -.7827  | -.2173  |
|                              | formula 1<br>hari 21          | -1.20000* | .08165 | .000 | -1.4827 | -.9173  |

|         |                               |                               |           |        |      |         |         |
|---------|-------------------------------|-------------------------------|-----------|--------|------|---------|---------|
|         |                               | formula 2<br>hari 1           | -0.30000* | .08165 | .033 | -.5827  | -.0173  |
|         |                               | formula 2<br>hari 21          | -1.30000* | .08165 | .000 | -1.5827 | -1.0173 |
|         |                               | formula 3<br>hari 1           | -.70000*  | .08165 | .000 | -.9827  | -.4173  |
|         |                               | formula 3<br>hari 21          | -1.70000* | .08165 | .000 | -1.9827 | -1.4173 |
|         |                               | kontrol<br>negatif hari<br>21 | -.80000*  | .08165 | .000 | -1.0827 | -.5173  |
|         |                               | formula 1<br>hari 1           | .30000*   | .08165 | .033 | .0173   | .5827   |
|         |                               | formula 1<br>hari 21          | -.40000*  | .08165 | .003 | -.6827  | -.1173  |
|         |                               | formula 2<br>hari 1           | .50000*   | .08165 | .000 | .2173   | .7827   |
|         | kontrol<br>negatif<br>hari 21 | formula 2<br>hari 21          | -.50000*  | .08165 | .000 | -.7827  | -.2173  |
|         |                               | formula 3<br>hari 1           | .10000    | .08165 | .913 | -.1827  | .3827   |
|         |                               | formula 3<br>hari 21          | -.90000*  | .08165 | .000 | -1.1827 | -.6173  |
|         |                               | kontrol<br>negatif hari 1     | .80000*   | .08165 | .000 | .5173   | 1.0827  |
|         |                               | formula 1<br>hari 21          | -.86667*  | .08819 | .000 | -1.1720 | -.5613  |
|         |                               | formula 2<br>hari 1           | .23333    | .08819 | .209 | -.0720  | .5387   |
|         |                               | formula 2<br>hari 21          | -.76667*  | .08819 | .000 | -1.0720 | -.4613  |
|         | formula 1<br>hari 1           | formula 3<br>hari 1           | -.06667   | .08819 | .993 | -.3720  | .2387   |
|         |                               | formula 3<br>hari 21          | -1.06667* | .08819 | .000 | -1.3720 | -.7613  |
|         |                               | kontrol<br>negatif hari 1     | .63333*   | .08819 | .000 | .3280   | .9387   |
|         |                               | kontrol<br>negatif hari<br>21 | -.46667*  | .08819 | .001 | -.7720  | -.1613  |
|         |                               | formula 1<br>hari 1           | .86667*   | .08819 | .000 | .5613   | 1.1720  |
| gram150 |                               | formula 2<br>hari 1           | 1.10000*  | .08819 | .000 | .7947   | 1.4053  |
|         |                               | formula 2<br>hari 21          | .10000    | .08819 | .939 | -.2053  | .4053   |
|         | formula 1<br>hari 21          | formula 3<br>hari 1           | .80000*   | .08819 | .000 | .4947   | 1.1053  |
|         |                               | formula 3<br>hari 21          | -.20000   | .08819 | .366 | -.5053  | .1053   |
|         |                               | kontrol<br>negatif hari 1     | 1.50000*  | .08819 | .000 | 1.1947  | 1.8053  |
|         |                               | kontrol<br>negatif hari<br>21 | .40000*   | .08819 | .006 | .0947   | .7053   |
|         | formula 2<br>hari 1           | formula 1<br>hari 1           | -.23333   | .08819 | .209 | -.5387  | .0720   |
|         |                               | formula 1<br>hari 21          | -1.10000* | .08819 | .000 | -1.4053 | -.7947  |

|                      |                               |           |        |      |         |        |
|----------------------|-------------------------------|-----------|--------|------|---------|--------|
|                      | formula 2<br>hari 21          | -1.00000* | .08819 | .000 | -1.3053 | -.6947 |
|                      | formula 3<br>hari 1           | -.30000   | .08819 | .056 | -.6053  | .0053  |
|                      | formula 3<br>hari 21          | -1.30000* | .08819 | .000 | -1.6053 | -.9947 |
|                      | kontrol<br>negatif hari 1     | .40000*   | .08819 | .006 | .0947   | .7053  |
|                      | kontrol<br>negatif hari<br>21 | -.70000*  | .08819 | .000 | -1.0053 | -.3947 |
|                      | formula 1<br>hari 1           | .76667*   | .08819 | .000 | .4613   | 1.0720 |
|                      | formula 1<br>hari 21          | -.10000   | .08819 | .939 | -.4053  | .2053  |
|                      | formula 2<br>hari 1           | 1.00000*  | .08819 | .000 | .6947   | 1.3053 |
| formula 2<br>hari 21 | formula 3<br>hari 1           | .70000*   | .08819 | .000 | .3947   | 1.0053 |
|                      | formula 3<br>hari 21          | -.30000   | .08819 | .056 | -.6053  | .0053  |
|                      | kontrol<br>negatif hari 1     | 1.40000*  | .08819 | .000 | 1.0947  | 1.7053 |
|                      | kontrol<br>negatif hari<br>21 | .30000    | .08819 | .056 | -.0053  | .6053  |
|                      | formula 1<br>hari 1           | .06667    | .08819 | .993 | -.2387  | .3720  |
|                      | formula 1<br>hari 21          | -.80000*  | .08819 | .000 | -1.1053 | -.4947 |
|                      | formula 2<br>hari 1           | .30000    | .08819 | .056 | -.0053  | .6053  |
| formula 3<br>hari 1  | formula 2<br>hari 21          | -.70000*  | .08819 | .000 | -1.0053 | -.3947 |
|                      | formula 3<br>hari 21          | -1.00000* | .08819 | .000 | -1.3053 | -.6947 |
|                      | kontrol<br>negatif hari 1     | .70000*   | .08819 | .000 | .3947   | 1.0053 |
|                      | kontrol<br>negatif hari<br>21 | -.40000*  | .08819 | .006 | -.7053  | -.0947 |
|                      | formula 1<br>hari 1           | 1.06667*  | .08819 | .000 | .7613   | 1.3720 |
|                      | formula 1<br>hari 21          | .20000    | .08819 | .366 | -.1053  | .5053  |
|                      | formula 2<br>hari 1           | 1.30000*  | .08819 | .000 | .9947   | 1.6053 |
| formula 3<br>hari 21 | formula 2<br>hari 21          | .30000    | .08819 | .056 | -.0053  | .6053  |
|                      | formula 3<br>hari 1           | 1.00000*  | .08819 | .000 | .6947   | 1.3053 |
|                      | kontrol<br>negatif hari 1     | 1.70000*  | .08819 | .000 | 1.3947  | 2.0053 |
|                      | kontrol<br>negatif hari<br>21 | .60000*   | .08819 | .000 | .2947   | .9053  |
| kontrol<br>negatif   | formula 1<br>hari 1           | -.63333*  | .08819 | .000 | -.9387  | -.3280 |

|         |                |                |           |        |         |         |         |
|---------|----------------|----------------|-----------|--------|---------|---------|---------|
| gram200 | hari 1         | formula 1      | -1.50000* | .08819 | .000    | -1.8053 | -1.1947 |
|         |                | hari 21        |           |        |         |         |         |
|         |                | formula 2      | -.40000*  | .08819 | .006    | -.7053  | -.0947  |
|         |                | hari 1         |           |        |         |         |         |
|         |                | formula 2      | -1.40000* | .08819 | .000    | -1.7053 | -1.0947 |
|         |                | hari 21        |           |        |         |         |         |
|         |                | formula 3      | -.70000*  | .08819 | .000    | -1.0053 | -.3947  |
|         |                | hari 1         |           |        |         |         |         |
|         |                | formula 3      | -1.70000* | .08819 | .000    | -2.0053 | -1.3947 |
|         |                | hari 21        |           |        |         |         |         |
|         |                | kontrol        | -1.10000* | .08819 | .000    | -1.4053 | -.7947  |
|         |                | negatif hari   |           |        |         |         |         |
|         |                | 21             |           |        |         |         |         |
|         |                | formula 1      | .46667*   | .08819 | .001    | .1613   | .7720   |
|         |                | hari 1         |           |        |         |         |         |
|         |                | formula 1      | -.40000*  | .08819 | .006    | -.7053  | -.0947  |
|         |                | hari 21        |           |        |         |         |         |
|         |                | formula 2      | .70000*   | .08819 | .000    | .3947   | 1.0053  |
|         |                | hari 1         |           |        |         |         |         |
|         |                | kontrol        | -.30000   | .08819 | .056    | -.6053  | .0053   |
|         |                | negatif        |           |        |         |         |         |
|         |                | hari 21        |           |        |         |         |         |
|         |                | formula 3      | .40000*   | .08819 | .006    | .0947   | .7053   |
|         |                | hari 1         |           |        |         |         |         |
|         |                | formula 3      | -.60000*  | .08819 | .000    | -.9053  | -.2947  |
|         |                | hari 21        |           |        |         |         |         |
|         |                | kontrol        | 1.10000*  | .08819 | .000    | .7947   | 1.4053  |
|         |                | negatif hari 1 |           |        |         |         |         |
|         |                | formula 1      | -.80000*  | .07817 | .000    | -1.0706 | -.5294  |
|         |                | hari 21        |           |        |         |         |         |
|         | formula 2      | -.10000        | .07817    | .894   | -.3706  | .1706   |         |
|         | hari 1         |                |           |        |         |         |         |
|         | formula 2      | -1.10000*      | .07817    | .000   | -1.3706 | -.8294  |         |
|         | hari 21        |                |           |        |         |         |         |
|         | formula 3      | -.20000        | .07817    | .240   | -.4706  | .0706   |         |
|         | hari 1         |                |           |        |         |         |         |
|         | formula 3      | -1.20000*      | .07817    | .000   | -1.4706 | -.9294  |         |
|         | hari 21        |                |           |        |         |         |         |
|         | kontrol        | .73333*        | .07817    | .000   | .4627   | 1.0040  |         |
|         | negatif hari 1 |                |           |        |         |         |         |
|         | kontrol        | -.60000*       | .07817    | .000   | -.8706  | -.3294  |         |
|         | negatif hari   |                |           |        |         |         |         |
|         | 21             |                |           |        |         |         |         |
|         | formula 1      | .80000*        | .07817    | .000   | .5294   | 1.0706  |         |
|         | hari 1         |                |           |        |         |         |         |
|         | formula 2      | .70000*        | .07817    | .000   | .4294   | .9706   |         |
|         | hari 1         |                |           |        |         |         |         |
|         | formula 2      | -.30000*       | .07817    | .024   | -.5706  | -.0294  |         |
|         | hari 21        |                |           |        |         |         |         |
|         | formula 3      | .60000*        | .07817    | .000   | .3294   | .8706   |         |
|         | hari 1         |                |           |        |         |         |         |
|         | formula 3      | -.40000*       | .07817    | .002   | -.6706  | -.1294  |         |
|         | hari 21        |                |           |        |         |         |         |
|         | kontrol        | 1.53333*       | .07817    | .000   | 1.2627  | 1.8040  |         |
|         | negatif hari 1 |                |           |        |         |         |         |

|                   |                         |           |        |      |         |        |
|-------------------|-------------------------|-----------|--------|------|---------|--------|
|                   | kontrol negatif hari 21 | .20000    | .07817 | .240 | -.0706  | .4706  |
|                   | formula 1 hari 1        | .10000    | .07817 | .894 | -.1706  | .3706  |
|                   | formula 1 hari 21       | -.70000*  | .07817 | .000 | -.9706  | -.4294 |
|                   | formula 2 hari 21       | -1.00000* | .07817 | .000 | -1.2706 | -.7294 |
| formula 2 hari 1  | formula 3 hari 1        | -.10000   | .07817 | .894 | -.3706  | .1706  |
|                   | formula 3 hari 21       | -1.10000* | .07817 | .000 | -1.3706 | -.8294 |
|                   | kontrol negatif hari 1  | .83333*   | .07817 | .000 | .5627   | 1.1040 |
|                   | kontrol negatif hari 21 | -.50000*  | .07817 | .000 | -.7706  | -.2294 |
|                   | formula 1 hari 1        | 1.10000*  | .07817 | .000 | .8294   | 1.3706 |
|                   | formula 1 hari 21       | .30000*   | .07817 | .024 | .0294   | .5706  |
|                   | formula 2 hari 1        | 1.00000*  | .07817 | .000 | .7294   | 1.2706 |
| formula 2 hari 21 | formula 3 hari 1        | .90000*   | .07817 | .000 | .6294   | 1.1706 |
|                   | formula 3 hari 21       | -.10000   | .07817 | .894 | -.3706  | .1706  |
|                   | kontrol negatif hari 1  | 1.83333*  | .07817 | .000 | 1.5627  | 2.1040 |
|                   | kontrol negatif hari 21 | .50000*   | .07817 | .000 | .2294   | .7706  |
|                   | formula 1 hari 1        | .20000    | .07817 | .240 | -.0706  | .4706  |
|                   | formula 1 hari 21       | -.60000*  | .07817 | .000 | -.8706  | -.3294 |
|                   | formula 2 hari 1        | .10000    | .07817 | .894 | -.1706  | .3706  |
| formula 3 hari 1  | formula 2 hari 21       | -.90000*  | .07817 | .000 | -1.1706 | -.6294 |
|                   | formula 3 hari 21       | -1.00000* | .07817 | .000 | -1.2706 | -.7294 |
|                   | kontrol negatif hari 1  | .93333*   | .07817 | .000 | .6627   | 1.2040 |
|                   | kontrol negatif hari 21 | -.40000*  | .07817 | .002 | -.6706  | -.1294 |
|                   | formula 1 hari 1        | 1.20000*  | .07817 | .000 | .9294   | 1.4706 |
| formula 3 hari 21 | formula 1 hari 21       | .40000*   | .07817 | .002 | .1294   | .6706  |
|                   | formula 2 hari 1        | 1.10000*  | .07817 | .000 | .8294   | 1.3706 |

|                               |                               |           |        |      |         |         |
|-------------------------------|-------------------------------|-----------|--------|------|---------|---------|
|                               | formula 2<br>hari 21          | .10000    | .07817 | .894 | -.1706  | .3706   |
|                               | formula 3<br>hari 1           | 1.00000*  | .07817 | .000 | .7294   | 1.2706  |
|                               | kontrol<br>negatif hari 1     | 1.93333*  | .07817 | .000 | 1.6627  | 2.2040  |
|                               | kontrol<br>negatif hari<br>21 | .60000*   | .07817 | .000 | .3294   | .8706   |
|                               | formula 1<br>hari 1           | -.73333*  | .07817 | .000 | -1.0040 | -.4627  |
|                               | formula 1<br>hari 21          | -1.53333* | .07817 | .000 | -1.8040 | -1.2627 |
|                               | formula 2<br>hari 1           | -.83333*  | .07817 | .000 | -1.1040 | -.5627  |
| kontrol<br>negatif<br>hari 1  | formula 2<br>hari 21          | -1.83333* | .07817 | .000 | -2.1040 | -1.5627 |
|                               | formula 3<br>hari 1           | -.93333*  | .07817 | .000 | -1.2040 | -.6627  |
|                               | formula 3<br>hari 21          | -1.93333* | .07817 | .000 | -2.2040 | -1.6627 |
|                               | kontrol<br>negatif hari<br>21 | -1.33333* | .07817 | .000 | -1.6040 | -1.0627 |
|                               | formula 1<br>hari 1           | .60000*   | .07817 | .000 | .3294   | .8706   |
|                               | formula 1<br>hari 21          | -.20000   | .07817 | .240 | -.4706  | .0706   |
|                               | formula 2<br>hari 1           | .50000*   | .07817 | .000 | .2294   | .7706   |
| kontrol<br>negatif<br>hari 21 | formula 2<br>hari 21          | -.50000*  | .07817 | .000 | -.7706  | -.2294  |
|                               | formula 3<br>hari 1           | .40000*   | .07817 | .002 | .1294   | .6706   |
|                               | formula 3<br>hari 21          | -.60000*  | .07817 | .000 | -.8706  | -.3294  |
|                               | kontrol<br>negatif hari 1     | 1.33333*  | .07817 | .000 | 1.0627  | 1.6040  |

\*. The mean difference is significant at the 0.05 level.



**Tuckey****gram0**Tukey HSD<sup>a</sup>

| dayasebar               | N | Subset for alpha = 0.05 |        |        |        |
|-------------------------|---|-------------------------|--------|--------|--------|
|                         |   | 1                       | 2      | 3      | 4      |
| kontrol negatif hari 1  | 3 | 2.7000                  |        |        |        |
| formula 2 hari 1        | 3 |                         | 3.2000 |        |        |
| kontrol negatif hari 21 | 3 |                         | 3.2667 |        |        |
| formula 1 hari 1        | 3 |                         | 3.3000 |        |        |
| formula 3 hari 1        | 3 |                         | 3.3000 |        |        |
| formula 1 hari 21       | 3 |                         |        | 3.9000 |        |
| formula 2 hari 21       | 3 |                         |        | 4.2000 | 4.2000 |
| formula 3 hari 21       | 3 |                         |        |        | 4.3000 |
| Sig.                    |   | 1.000                   | .939   | .056   | .939   |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**gram50**Tukey HSD<sup>a</sup>

| dayasebar               | N | Subset for alpha = 0.05 |        |        |        |
|-------------------------|---|-------------------------|--------|--------|--------|
|                         |   | 1                       | 2      | 3      | 4      |
| kontrol negatif hari 1  | 3 | 3.0000                  |        |        |        |
| formula 1 hari 1        | 3 |                         | 3.6000 |        |        |
| formula 2 hari 1        | 3 |                         | 3.6000 |        |        |
| formula 3 hari 1        | 3 |                         | 3.6000 |        |        |
| kontrol negatif hari 21 | 3 |                         |        | 4.1000 |        |
| formula 1 hari 21       | 3 |                         |        |        | 4.4667 |
| formula 2 hari 21       | 3 |                         |        |        | 4.6000 |
| formula 3 hari 21       | 3 |                         |        |        | 4.6000 |
| Sig.                    |   | 1.000                   | 1.000  | 1.000  | .791   |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**gram100**Tukey HSD<sup>a</sup>

| dayasebar               | N | Subset for alpha = 0.05 |        |        |        |        |        |
|-------------------------|---|-------------------------|--------|--------|--------|--------|--------|
|                         |   | 1                       | 2      | 3      | 4      | 5      | 6      |
| kontrol negatif hari 1  | 3 | 3.5000                  |        |        |        |        |        |
| formula 2 hari 1        | 3 |                         | 3.8000 |        |        |        |        |
| formula 1 hari 1        | 3 |                         | 4.0000 | 4.0000 |        |        |        |
| formula 3 hari 1        | 3 |                         |        | 4.2000 | 4.2000 |        |        |
| kontrol negatif hari 21 | 3 |                         |        |        | 4.3000 |        |        |
| formula 1 hari 21       | 3 |                         |        |        |        | 4.7000 |        |
| formula 2 hari 21       | 3 |                         |        |        |        | 4.8000 |        |
| formula 3 hari 21       | 3 |                         |        |        |        |        | 5.2000 |
| Sig.                    |   | 1.000                   | .283   | .283   | .913   | .913   | 1.000  |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**gram150**Tukey HSD<sup>a</sup>

| dayasebar               | N | Subset for alpha = 0.05 |        |        |        |
|-------------------------|---|-------------------------|--------|--------|--------|
|                         |   | 1                       | 2      | 3      | 4      |
| kontrol negatif hari 1  | 3 | 3.8000                  |        |        |        |
| formula 2 hari 1        | 3 |                         | 4.2000 |        |        |
| formula 1 hari 1        | 3 |                         | 4.4333 |        |        |
| formula 3 hari 1        | 3 |                         | 4.5000 |        |        |
| kontrol negatif hari 21 | 3 |                         |        | 4.9000 |        |
| formula 2 hari 21       | 3 |                         |        | 5.2000 | 5.2000 |
| formula 1 hari 21       | 3 |                         |        |        | 5.3000 |
| formula 3 hari 21       | 3 |                         |        |        | 5.5000 |
| Sig.                    |   | 1.000                   | .056   | .056   | .056   |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**gram200**Tukey HSD<sup>a</sup>

| dayasebar               | N | Subset for alpha = 0.05 |        |        |        |
|-------------------------|---|-------------------------|--------|--------|--------|
|                         |   | 1                       | 2      | 3      | 4      |
| kontrol negatif hari 1  | 3 | 3.9667                  |        |        |        |
| formula 1 hari 1        | 3 |                         | 4.7000 |        |        |
| formula 2 hari 1        | 3 |                         | 4.8000 |        |        |
| formula 3 hari 1        | 3 |                         | 4.9000 |        |        |
| kontrol negatif hari 21 | 3 |                         |        | 5.3000 |        |
| formula 1 hari 21       | 3 |                         |        | 5.5000 |        |
| formula 2 hari 21       | 3 |                         |        |        | 5.8000 |
| formula 3 hari 21       | 3 |                         |        |        | 5.9000 |
| Sig.                    |   | 1.000                   | .240   | .240   | .894   |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**Lampiran 16. Hasil analisis data mutu fisik daya lekat sediaan gel ekstrak bawang dayak**

| Formula | waktu | Daya lekat (detik) |             |             | Rata-rata | SD    |
|---------|-------|--------------------|-------------|-------------|-----------|-------|
|         |       | Replikasi 1        | Replikasi 2 | Replikasi 3 |           |       |
| F1      | 1     | 6,14               | 6,21        | 6,17        | 6,17      | ±0,03 |
|         | 21    | 6,04               | 6,11        | 6,07        | 6,07      | ±0,03 |
| F2      | 1     | 6,08               | 5,97        | 6,02        | 6,02      | ±0,05 |
|         | 21    | 5,98               | 5,87        | 5,91        | 5,92      | ±0,05 |
| F3      | 1     | 5,71               | 5,84        | 5,8         | 5,78      | ±0,06 |
|         | 21    | 5,6                | 5,73        | 5,69        | 5,67      | ±0,06 |
| K-      | 1     | 7,1                | 6,95        | 6,99        | 7,01      | ±0,07 |
|         | 21    | 6,89               | 6,84        | 6,91        | 6,88      | ±0,03 |

- Hasil analisis data mutu fisik daya lekat gel bawang dayak dengan SPSS

**Tests of Normality**

|           | sampel                  | Kolmogorov-Smirnov <sup>a</sup> |    |      | Shapiro-Wilk |    |      |
|-----------|-------------------------|---------------------------------|----|------|--------------|----|------|
|           |                         | Statistic                       | df | Sig. | Statistic    | df | Sig. |
| DayaLekat | Formula 1 hari 1        | .204                            | 3  | .    | .993         | 3  | .843 |
|           | formula 1 hari 21       | .204                            | 3  | .    | .993         | 3  | .843 |
|           | Formula 2 hari 1        | .191                            | 3  | .    | .997         | 3  | .900 |
|           | formula 2 hari 21       | .238                            | 3  | .    | .976         | 3  | .702 |
|           | formula 3 hari 1        | .265                            | 3  | .    | .953         | 3  | .583 |
|           | formula 3 hari 21       | .265                            | 3  | .    | .953         | 3  | .583 |
|           | kontrol negatif hari 1  | .285                            | 3  | .    | .932         | 3  | .497 |
|           | kontrol negatif hari 21 | .276                            | 3  | .    | .942         | 3  | .537 |

a. Lilliefors Significance Correction

**Test of Homogeneity of Variances**

DayaLekat

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| .739             | 7   | 16  | .643 |

**Oneway ANOVA**

**ANOVA**

DayaLekat

|                | Sum of Squares | df | Mean Square | F       | Sig. |
|----------------|----------------|----|-------------|---------|------|
| Between Groups | 5.102          | 7  | .729        | 235.136 | .000 |
| Within Groups  | .050           | 16 | .003        |         |      |
| Total          | 5.152          | 23 |             |         |      |

## Post Hoc Test

### Multiple Comparisons

Dependent Variable: DayaLekat

Tukey HSD

| (I) sampel        | (J) sampel              | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval |             |
|-------------------|-------------------------|-----------------------|------------|------|-------------------------|-------------|
|                   |                         |                       |            |      | Lower Bound             | Upper Bound |
| Formula 1 hari 1  | formula 1 hari 21       | .10000                | .04546     | .400 | -.0574                  | .2574       |
|                   | Formula 2 hari 1        | .15000                | .04546     | .068 | -.0074                  | .3074       |
|                   | formula 2 hari 21       | .25333*               | .04546     | .001 | .0959                   | .4107       |
|                   | formula 3 hari 1        | .39000*               | .04546     | .000 | .2326                   | .5474       |
|                   | formula 3 hari 21       | .50000*               | .04546     | .000 | .3426                   | .6574       |
|                   | kontrol negatif hari 1  | -.84000*              | .04546     | .000 | -.9974                  | -.6826      |
|                   | kontrol negatif hari 21 | -.70667*              | .04546     | .000 | -.8641                  | -.5493      |
| formula 1 hari 21 | Formula 1 hari 1        | -.10000               | .04546     | .400 | -.2574                  | .0574       |
|                   | Formula 2 hari 1        | .05000                | .04546     | .948 | -.1074                  | .2074       |
|                   | formula 2 hari 21       | .15333                | .04546     | .059 | -.0041                  | .3107       |
|                   | formula 3 hari 1        | .29000*               | .04546     | .000 | .1326                   | .4474       |
|                   | formula 3 hari 21       | .40000*               | .04546     | .000 | .2426                   | .5574       |
|                   | kontrol negatif hari 1  | -.94000*              | .04546     | .000 | -1.0974                 | -.7826      |
|                   | kontrol negatif hari 21 | -.80667*              | .04546     | .000 | -.9641                  | -.6493      |
| Formula 2 hari 1  | Formula 1 hari 1        | -.15000               | .04546     | .068 | -.3074                  | .0074       |
|                   | formula 1 hari 21       | -.05000               | .04546     | .948 | -.2074                  | .1074       |
|                   | formula 2 hari 21       | .10333                | .04546     | .363 | -.0541                  | .2607       |
|                   | formula 3 hari 1        | .24000*               | .04546     | .001 | .0826                   | .3974       |
|                   | formula 3 hari 21       | .35000*               | .04546     | .000 | .1926                   | .5074       |
|                   | kontrol negatif hari 1  | -.99000*              | .04546     | .000 | -1.1474                 | -.8326      |
|                   | kontrol negatif hari 21 | -.85667*              | .04546     | .000 | -1.0141                 | -.6993      |
| formula 2 hari 21 | Formula 1 hari 1        | -.25333*              | .04546     | .001 | -.4107                  | -.0959      |
|                   | formula 1 hari 21       | -.15333               | .04546     | .059 | -.3107                  | .0041       |
|                   | Formula 2 hari 1        | -.10333               | .04546     | .363 | -.2607                  | .0541       |
|                   | formula 3 hari 1        | .13667                | .04546     | .114 | -.0207                  | .2941       |
|                   | formula 3 hari 21       | .24667*               | .04546     | .001 | .0893                   | .4041       |
|                   | kontrol negatif hari 1  | -1.09333*             | .04546     | .000 | -1.2507                 | -.9359      |
|                   | kontrol negatif hari 21 | -.96000*              | .04546     | .000 | -1.1174                 | -.8026      |
| formula 3 hari 1  | Formula 1 hari 1        | -.39000*              | .04546     | .000 | -.5474                  | -.2326      |
|                   | formula 1 hari 21       | -.29000*              | .04546     | .000 | -.4474                  | -.1326      |
|                   | Formula 2 hari 1        | -.24000*              | .04546     | .001 | -.3974                  | -.0826      |
|                   | formula 2 hari 21       | -.13667               | .04546     | .114 | -.2941                  | .0207       |
|                   | formula 3 hari 21       | .11000                | .04546     | .296 | -.0474                  | .2674       |
|                   | kontrol negatif hari 1  | -1.23000*             | .04546     | .000 | -1.3874                 | -1.0726     |
|                   | kontrol negatif hari 21 | -1.09667*             | .04546     | .000 | -1.2541                 | -.9393      |
| formula 3 hari 21 | Formula 1 hari 1        | -.50000*              | .04546     | .000 | -.6574                  | -.3426      |
|                   | formula 1 hari 21       | -.40000*              | .04546     | .000 | -.5574                  | -.2426      |
|                   | Formula 2 hari 1        | -.35000*              | .04546     | .000 | -.5074                  | -.1926      |
|                   | formula 2 hari 21       | -.24667*              | .04546     | .001 | -.4041                  | -.0893      |
|                   | formula 3 hari 1        | -.11000               | .04546     | .296 | -.2674                  | .0474       |
|                   | kontrol negatif hari 1  | -1.34000*             | .04546     | .000 | -1.4974                 | -1.1826     |
|                   | kontrol negatif hari 21 | -1.20667*             | .04546     | .000 | -1.3641                 | -1.0493     |

|                            |                         |          |        |      |        |        |
|----------------------------|-------------------------|----------|--------|------|--------|--------|
| kontrol negatif hari<br>1  | Formula 1 hari 1        | .84000*  | .04546 | .000 | .6826  | .9974  |
|                            | formula 1 hari 21       | .94000*  | .04546 | .000 | .7826  | 1.0974 |
|                            | Formula 2 hari 1        | .99000*  | .04546 | .000 | .8326  | 1.1474 |
|                            | formula 2 hari 21       | 1.09333* | .04546 | .000 | .9359  | 1.2507 |
|                            | formula 3 hari 1        | 1.23000* | .04546 | .000 | 1.0726 | 1.3874 |
|                            | formula 3 hari 21       | 1.34000* | .04546 | .000 | 1.1826 | 1.4974 |
| kontrol negatif hari<br>21 | kontrol negatif hari 21 | .13333   | .04546 | .130 | -.0241 | .2907  |
|                            | Formula 1 hari 1        | .70667*  | .04546 | .000 | .5493  | .8641  |
|                            | formula 1 hari 21       | .80667*  | .04546 | .000 | .6493  | .9641  |
|                            | Formula 2 hari 1        | .85667*  | .04546 | .000 | .6993  | 1.0141 |
|                            | formula 2 hari 21       | .96000*  | .04546 | .000 | .8026  | 1.1174 |
|                            | formula 3 hari 1        | 1.09667* | .04546 | .000 | .9393  | 1.2541 |
| kontrol negatif hari<br>1  | formula 3 hari 21       | 1.20667* | .04546 | .000 | 1.0493 | 1.3641 |
|                            | kontrol negatif hari 1  | -.13333  | .04546 | .130 | -.2907 | .0241  |

\*. The mean difference is significant at the 0.05 level.

## Tuckey

### DayaLekat

Tukey HSD<sup>a</sup>

| sampel                  | N | Subset for alpha = 0.05 |        |        |        |        |
|-------------------------|---|-------------------------|--------|--------|--------|--------|
|                         |   | 1                       | 2      | 3      | 4      | 5      |
| formula 3 hari 21       | 3 | 5.6733                  |        |        |        |        |
| formula 3 hari 1        | 3 | 5.7833                  | 5.7833 |        |        |        |
| formula 2 hari 21       | 3 |                         | 5.9200 | 5.9200 |        |        |
| Formula 2 hari 1        | 3 |                         |        | 6.0233 | 6.0233 |        |
| formula 1 hari 21       | 3 |                         |        | 6.0733 | 6.0733 |        |
| Formula 1 hari 1        | 3 |                         |        |        | 6.1733 |        |
| kontrol negatif hari 21 | 3 |                         |        |        |        | 6.8800 |
| kontrol negatif hari 1  | 3 |                         |        |        |        | 7.0133 |
| Sig.                    |   | .296                    | .114   | .059   | .068   | .130   |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

**Lampiran 17. Hasil analisis data mutu fisik stabilitas viskositas sediaan gel ekstrak bawang dayak**

| Formula | Waktu   | Stabilitas viskositas |             |             | Rata-rata | SD   |
|---------|---------|-----------------------|-------------|-------------|-----------|------|
|         |         | Replikasi 1           | Replikasi 2 | Replikasi 3 |           |      |
| F1      | Sebelum | 310                   | 300         | 310         | 306,66    | 5,77 |
|         | Sesudah | 310                   | 300         | 300         | 303,33    | 5,77 |
| F2      | Sebelum | 290                   | 290         | 300         | 293,33    | 5,77 |
|         | Sesudah | 290                   | 280         | 290         | 286,66    | 5,77 |
| F3      | Sebelum | 290                   | 270         | 280         | 280       | 10   |
|         | Sesudah | 280                   | 260         | 270         | 270       | 10   |
| K-      | Sebelum | 300                   | 320         | 310         | 310       | 10   |
|         | Sesudah | 300                   | 320         | 310         | 310       | 10   |

- Hasil analisis data mutu fisik stabilitas gel bawang dayak dengan SPSS

**Tests of Normality**

|                | sampel          | Kolmogorov-Smirnov <sup>a</sup> |    |      | Shapiro-Wilk |    |       |
|----------------|-----------------|---------------------------------|----|------|--------------|----|-------|
|                |                 | Statistic                       | df | Sig. | Statistic    | df | Sig.  |
| SebelumCycling | formula 1       | .385                            | 3  | .    | .750         | 3  | .000  |
|                | formula 2       | .385                            | 3  | .    | .750         | 3  | .000  |
|                | formula 3       | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                | kontrol negatif | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
| SesudahCycling | formula 1       | .385                            | 3  | .    | .750         | 3  | .000  |
|                | formula 2       | .385                            | 3  | .    | .750         | 3  | .000  |
|                | formula 3       | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                | kontrol negatif | .175                            | 3  | .    | 1.000        | 3  | 1.000 |

a. Lilliefors Significance Correction

**Kruskal Wails**

**Ranks**

|                | sampel          | N  | Mean Rank |
|----------------|-----------------|----|-----------|
| SebelumCycling | formula 1       | 3  | 9.00      |
|                | formula 2       | 3  | 5.00      |
|                | formula 3       | 3  | 2.33      |
|                | kontrol negatif | 3  | 9.67      |
|                | Total           | 12 |           |
| SesudahCycling | formula 1       | 3  | 8.83      |
|                | formula 2       | 3  | 4.83      |
|                | formula 3       | 3  | 2.17      |
|                | kontrol negatif | 3  | 10.17     |
|                | Total           | 12 |           |

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

|             | SebelumCycling | SesudahCycling |
|-------------|----------------|----------------|
| Chi-Square  | 8.645          | 9.568          |
| df          | 3              | 3              |
| Asymp. Sig. | .034           | .023           |

a. Kruskal Wallis Test

b. Grouping Variable: sampel

**Wilcoxon****Ranks**

|                                    |                | N              | Mean Rank | Sum of Ranks |
|------------------------------------|----------------|----------------|-----------|--------------|
| SebelumCycling -<br>SesudahCycling | Negative Ranks | 6 <sup>a</sup> | 3.50      | 21.00        |
|                                    | Positive Ranks | 0 <sup>b</sup> | .00       | .00          |
|                                    | Ties           | 6 <sup>c</sup> |           |              |
|                                    | Total          | 12             |           |              |

a. SesudahCycling &lt; SebelumCycling

b. SesudahCycling &gt; SebelumCycling

c. SesudahCycling = SebelumCycling

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

|                        | SesudahCycling<br>-<br>SebelumCycling |
|------------------------|---------------------------------------|
| Z                      | -2.449 <sup>b</sup>                   |
| Asymp. Sig. (2-tailed) | .014                                  |

a. Wilcoxon Signed Ranks Test

b. Based on positive ranks.

**Lampiran 18. Hasil analisis data mutu fisik stabilitas pH sediaan gel ekstrak bawang dayak**

| Formula | waktu   | Stabilitas pH |             |             | Rata-rata | SD    |
|---------|---------|---------------|-------------|-------------|-----------|-------|
|         |         | Replikasi 1   | Replikasi 2 | Replikasi 3 |           |       |
| F1      | Sebelum | 5,74          | 5,79        | 5,78        | 5,77      | ±0,02 |
|         | Sesudah | 5,71          | 5,77        | 5,76        | 5,74      | ±0,03 |
| F2      | Sebelum | 5,71          | 5,69        | 5,69        | 5,69      | ±0,01 |
|         | Sesudah | 5,67          | 5,65        | 5,64        | 5,65      | ±0,01 |
| F3      | Sebelum | 5,65          | 5,61        | 5,63        | 5,63      | ±0,02 |
|         | Sesudah | 5,6           | 5,58        | 5,56        | 5,58      | ±0,02 |
| K-      | Sebelum | 6,07          | 6,03        | 6,07        | 6,05      | ±0,02 |
|         | Sesudah | 6,04          | 6,01        | 6,04        | 6,03      | ±0,01 |

**• Hasil analisis data mutu fisik stabilitas gel bawang dayak dengan SPSS**

**Tests of Normality**

|                | PH              | Kolmogorov-Smirnov <sup>a</sup> |    |      | Shapiro-Wilk |    |       |
|----------------|-----------------|---------------------------------|----|------|--------------|----|-------|
|                |                 | Statistic                       | df | Sig. | Statistic    | df | Sig.  |
| SebelumCycling | formula 1       | .314                            | 3  | .    | .893         | 3  | .363  |
|                | formula 2       | .314                            | 3  | .    | .893         | 3  | .637  |
|                | formula 3       | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                | kontrol negatif | .326                            | 3  | .    | .873         | 3  | .305  |
| SesudahCycling | formula 1       | .328                            | 3  | .    | .871         | 3  | .298  |
|                | formula 2       | .253                            | 3  | .    | .964         | 3  | .637  |
|                | formula 3       | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                | kontrol negatif | .292                            | 3  | .    | .923         | 3  | .463  |

a. Lilliefors Significance Correction

**Test of Homogeneity of Variances**

|                | Levene Statistic | df1 | df2 | Sig. |
|----------------|------------------|-----|-----|------|
| SebelumCycling | .948             | 3   | 8   | .462 |
| SesudahCycling | 1.235            | 3   | 8   | .359 |

**Paired Samples Test**

|   | Paired Differences |                |                 |   |        | t     | df | Sig. (2-tailed) |
|---|--------------------|----------------|-----------------|---|--------|-------|----|-----------------|
|   | Mean               | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference |        |       |    |                 |
|   |                    |                |                 | Lower                                     | Upper  |       |    |                 |
| Pair 1<br>SebelumCycling<br>-<br>SesudahCycling | .03583             | .01505         | .00434          | .02627                                    | .04540 | 8.248 | 11 | .000            |



**Lampiran 19. Hasil analisis data daya hambat sediaan gel ekstrak  
bawang dayak**

| <b>Tests of Normality</b> |         |                                 |    |      |              |    |       |
|---------------------------|---------|---------------------------------|----|------|--------------|----|-------|
|                           | Formula | Kolmogorov-Smirnov <sup>a</sup> |    |      | Shapiro-Wilk |    |       |
|                           |         | Statistic                       | df | Sig. | Statistic    | df | Sig.  |
| Dayahambat                | K+      | .292                            | 3  | .    | .923         | 3  | .463  |
|                           | F1      | .204                            | 3  | .    | .993         | 3  | .843  |
|                           | F2      | .314                            | 3  | .    | .893         | 3  | .363  |
|                           | F3      | .175                            | 3  | .    | 1.000        | 3  | 1.000 |
|                           | K-      | .                               | 3  | .    | .            | 3  | .     |

a. Lilliefors Significance Correction

| <b>Independent Samples Test</b> |                             |   |      |                              |       |                 |                 |                       |   |          |
|---------------------------------|-----------------------------|---|------|------------------------------|-------|-----------------|-----------------|-----------------------|---|----------|
|                                 |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |       |                 |                 |                       |   |          |
|                                 |                             | F                                       | Sig. | t                            | df    | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |          |
|                                 |                             |   |      |                              |       |                 |                 |                       | Lower                                     | Upper    |
| Dayahambat                      | Equal variances assumed     | .582                                    | .488 | 25.880                       | 4     | .000            | 15.2500         | .58926                | 13.61396                                  | 16.88604 |
|                                 | Equal variances not assumed |   |      | 25.880                       | 3.251 | .000            | 15.2500         | .58926                | 13.45402                                  | 17.04598 |

| <b>Test of Homogeneity of Variances</b> |                                      |                  |     |       |      |
|---|--------------------------------------|------------------|-----|-------|------|
|   |                                      | Levene Statistic | df1 | df2   | Sig. |
| Dayahambat                              | Based on Mean                        | 2.740            | 4   | 10    | .089 |
|   | Based on Median                      | 1.074            | 4   | 10    | .419 |
|   | Based on Median and with adjusted df | 1.074            | 4   | 5.959 | .446 |
|   | Based on trimmed mean                | 2.603            | 4   | 10    | .100 |

| <b>ANOVA</b>   |                |    |             |          |      |
|----------------|----------------|----|-------------|----------|------|
| Dayahambat     |                |    |             |          |      |
|                | Sum of Squares | df | Mean Square | F        | Sig. |
| Between Groups | 1689.125       | 4  | 422.281     | 1369.561 | .000 |
| Within Groups  | 3.083          | 10 | .308        |          |      |
| Total          | 1692.208       | 14 |             |          |      |

| <b>Multiple Comparisons</b>    |             |                       |            |      |                         |             |
|--------------------------------|-------------|-----------------------|------------|------|-------------------------|-------------|
| Dependent Variable: Dayahambat |             |                       |            |      |                         |             |
| Tukey HSD                      |             |                       |            |      |                         |             |
| (I) Formula                    | (J) Formula | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval |             |
|                                |             |                       |            |      | Lower Bound             | Upper Bound |
| K+                             | F1          | 15.25000*             | .45338     | .000 | 13.7579                 | 16.7421     |
|                                | F2          | 13.33333*             | .45338     | .000 | 11.8412                 | 14.8255     |
|                                | F3          | 12.08333*             | .45338     | .000 | 10.5912                 | 13.5755     |
|                                | K-          | 33.08333*             | .45338     | .000 | 31.5912                 | 34.5755     |
| F1                             | K+          | -15.25000*            | .45338     | .000 | -16.7421                | -13.7579    |
|                                | F2          | -1.91667*             | .45338     | .012 | -3.4088                 | -.4245      |
|                                | F3          | -3.16667*             | .45338     | .000 | -4.6588                 | -1.6745     |
|                                | K-          | 17.83333*             | .45338     | .000 | 16.3412                 | 19.3255     |
| F2                             | K+          | -13.33333*            | .45338     | .000 | -14.8255                | -11.8412    |
|                                | F1          | 1.91667*              | .45338     | .012 | .4245                   | 3.4088      |
|                                | F3          | -1.25000              | .45338     | .114 | -2.7421                 | .2421       |
|                                | K-          | 19.75000*             | .45338     | .000 | 18.2579                 | 21.2421     |
| F3                             | K+          | -12.08333*            | .45338     | .000 | -13.5755                | -10.5912    |
|                                | F1          | 3.16667*              | .45338     | .000 | 1.6745                  | 4.6588      |
|                                | F2          | 1.25000               | .45338     | .114 | -.2421                  | 2.7421      |
|                                | K-          | 21.00000*             | .45338     | .000 | 19.5079                 | 22.4921     |
| K-                             | K+          | -33.08333*            | .45338     | .000 | -34.5755                | -31.5912    |
|                                | F1          | -17.83333*            | .45338     | .000 | -19.3255                | -16.3412    |
|                                | F2          | -19.75000*            | .45338     | .000 | -21.2421                | -18.2579    |
|                                | F3          | -21.00000*            | .45338     | .000 | -22.4921                | -19.5079    |

\*. The mean difference is significant at the 0.05 level.

| <b>DayaHambat</b>      |   |                         |         |         |         |
|------------------------|---|-------------------------|---------|---------|---------|
| Tukey HSD <sup>a</sup> |   |                         |         |         |         |
| Formula                | N | Subset for alpha = 0.05 |         |         |         |
|                        |   | 1                       | 2       | 3       | 4       |
| K-                     | 3 | .0000                   |         |         |         |
| F1                     | 3 |                         | 17.8333 |         |         |
| F2                     | 3 |                         |         | 19.7500 |         |
| F3                     | 3 |                         |         | 21.0000 |         |
| K+                     | 3 |                         |         |         | 33.0833 |
| Sig.                   |   | 1.000                   | 1.000   | .114    | 1.000   |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.