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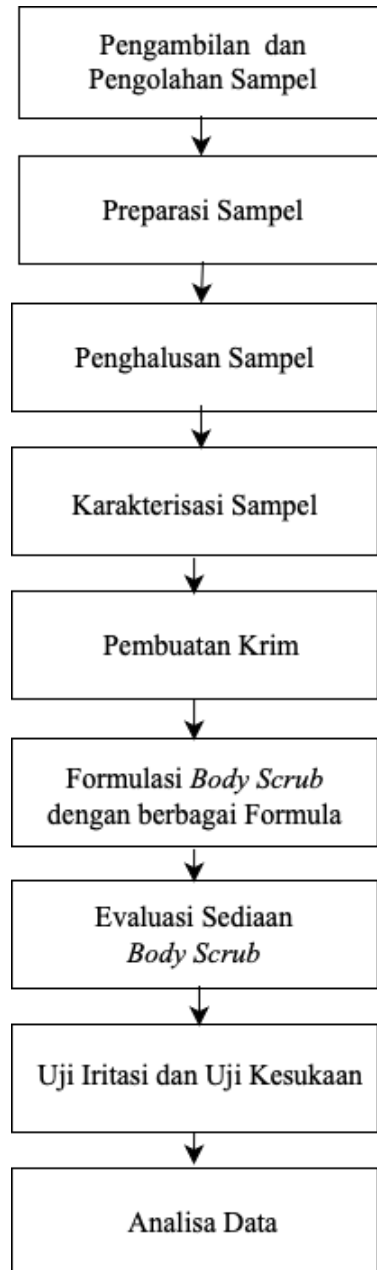
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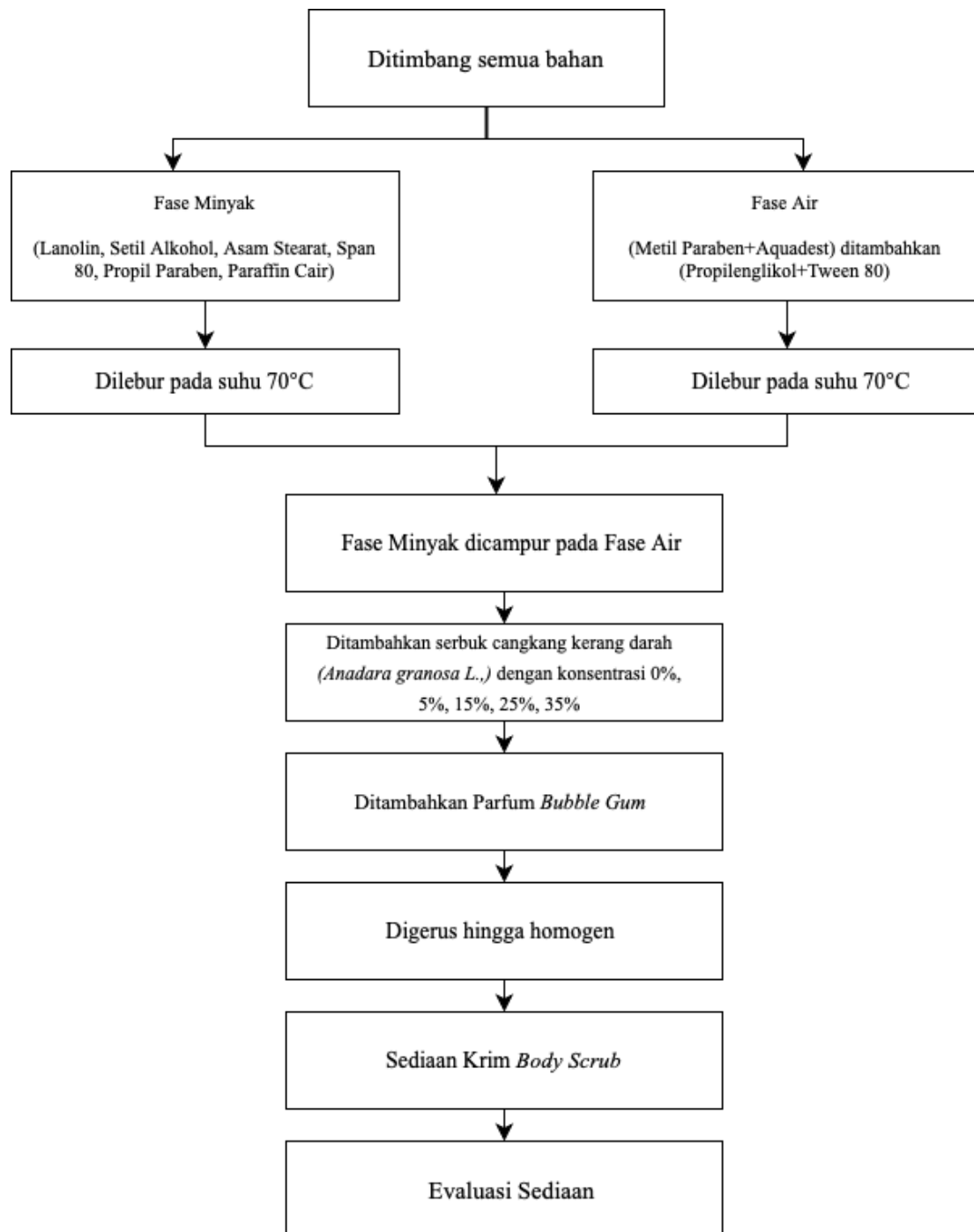
## LAMPIRAN

### Lampiran 1. Skema Alur Penelitian



**Gambar 10.** Skema Alur Penelitian

## Lampiran 2. Skema Pembuatan Krim



**Gambar 11.** Skema Pembuatan Krim *Body Scrub*

**Lampiran 3. Lembar *informed Consent* (Persetujuan Responden)**

## SURAT PERNYATAAN PERSETUJUAN IKUT SERTA DALAM PENELITIAN

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Saya yang bertanda tangan dibawah ini :

Nama Lengkap :

Umur :

Alamat :

Telah mendapat penjelasan secukupnya bahwa punggung tangan saya akan digunakan sebagai daerah yang akan diuji. Setelah mendapat penjelasan secukupnya tentang manfaat penelitian ini maka saya menyatakan SETUJU untuk ikut serta dalam penelitian RISALSA NABILA dengan judul “FORMULASI DAN EVALUASI SEDIAAN SEDIAAN KRIM *BODY SCRUB* SERBUK CANGKANG KERANG DARAH (*Anadara Granosa L.*) UNTUK MENGANGKAT SEL KULIT MATI” sebagai usaha untuk mengetahui apakah sediaan *body scrub* yang dihasilkan mampu memberikan efek perawatan pada kulit. Saya menyatakan sukarelawan dan bersedia untuk mengikuti prosedur penelitian yang telah ditetapkan.

Persetujuan ini saya buat dengan penuh kesadaran dan tanpa paksaan dari pihak manapun. Apabila terjadi kesalahan, iritasi, gangguan atau lainnya, silahkan menghubungi nomor/email yang ada dibawah ini. Demikian surat pernyataan ini dibuat untuk dapat dipergunakan. Sebagaimana mestinya.

Batam, 2024

Peneliti

Sukarelawan

( Risalsa Nabila)  
No. Hp/Wa : 081264145644  
nabilarisalsa115@gmail.com

**Lampiran 4. Lembar Kuisisioner Uji Tanggapan**

### Lembar Kuisisioner Uji Tanggapan Sediaan *Body Scrub*

Nama :  
Hari/Tanggal :  
Tanda Tangan :

Dihadapan saudara/I disajikan 5 formulasi *Body Scrub*, saudara/I diminta memberikan penilaian terhadap warna, aroma, tekstur, kesukaan, dengan cara melihat warna, aroma dengan mencium, melihat tekstur dan uji iritasi.

**Tabel 12.** Lembar Kuisisioner Uji Tanggapan Kesukaan

| Formulasi 1 |   |   |   |   |   |
|-------------|---|---|---|---|---|
| Warna       | 1 | 2 | 3 | 4 | 5 |
| Aroma       | 1 | 2 | 3 | 4 | 5 |
| Rasa        | 1 | 2 | 3 | 4 | 5 |
| Tekstur     | 1 | 2 | 3 | 4 | 5 |

| Formulasi 2 |   |   |   |   |   |
|-------------|---|---|---|---|---|
| Warna       | 1 | 2 | 3 | 4 | 5 |
| Aroma       | 1 | 2 | 3 | 4 | 5 |
| Rasa        | 1 | 2 | 3 | 4 | 5 |
| Tekstur     | 1 | 2 | 3 | 4 | 5 |

| Formulasi 3 |   |   |   |   |   |
|-------------|---|---|---|---|---|
| Warna       | 1 | 2 | 3 | 4 | 5 |
| Aroma       | 1 | 2 | 3 | 4 | 5 |
| Rasa        | 1 | 2 | 3 | 4 | 5 |
| Tekstur     | 1 | 2 | 3 | 4 | 5 |

| Formulasi 4 |   |   |   |   |   |
|-------------|---|---|---|---|---|
| Warna       | 1 | 2 | 3 | 4 | 5 |

|         |   |   |   |   |   |
|---------|---|---|---|---|---|
| Aroma   | 1 | 2 | 3 | 4 | 5 |
| Rasa    | 1 | 2 | 3 | 4 | 5 |
| Tekstur | 1 | 2 | 3 | 4 | 5 |

| Formulasi 5 |   |   |   |   |   |
|-------------|---|---|---|---|---|
| Warna       | 1 | 2 | 3 | 4 | 5 |
| Aroma       | 1 | 2 | 3 | 4 | 5 |
| Rasa        | 1 | 2 | 3 | 4 | 5 |
| Tekstur     | 1 | 2 | 3 | 4 | 5 |

| Ketertarikan terhadap formulasi |   |   |   |   |   |
|---------------------------------|---|---|---|---|---|
| Formula                         | 1 | 2 | 3 | 4 | 5 |

**Keterangan :**

1 = Tidak suka/ Tidak menarik

2 = Kurang suka/ Kurang menarik

3 = Netral

4 = Suka/ Menarik

5 = Sangat suka/ Sangat Menarik

**Lampiran 5.** Lembar Kuisioner Uji Iritasi *Body Scrub*

**Tabel 13.** Lembar Kuisioner Uji Iritasi *Body Scrub*

| <b>Lembar kuisioner Uji Iritasi Krim <i>Body Scrub</i></b> |           |           |           |           |           |
|------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|
| <b>Pengamatan</b>                                          | <b>F1</b> | <b>F2</b> | <b>F3</b> | <b>F4</b> | <b>F5</b> |
| Kemerahan                                                  |           |           |           |           |           |
| Gatal                                                      |           |           |           |           |           |
| Bengkak                                                    |           |           |           |           |           |

Keterangan :

(-) Negatif

(+) Positif

## Lampiran 6. Perhitungan Formulasi

Perhitungan Formulasi Sediaan Krim Body Scrub dengan bobot 400 gram dan dilebihkan 10% = 440 gram.

### 1. Formulasi 1% (0% Basis)

- Asam stearat 5%  
dilebihkan 10%  
$$: \frac{5}{100} \times 400 \text{ gram} = 20 \text{ gram}$$
$$= 22 \text{ gram}$$
- Setil alkohol 3%  
dilebihkan 10%  
$$: \frac{3}{100} \times 400 \text{ gram} = 12 \text{ gram}$$
$$= 13,2 \text{ gram}$$
- Span 80 2%  
dilebihkan 10%  
$$: \frac{2}{100} \times 400 \text{ ml} = 8 \text{ ml}$$
$$= 8,8 \text{ ml}$$
- Tween 80 2%  
dilebihkan 10%  
$$: \frac{2}{100} \times 400 \text{ ml} = 8 \text{ ml}$$
$$= 8,8 \text{ ml}$$
- Propilenglikol 0,2  
dilebihkan 10%  
$$: \frac{0,2}{100} \times 400 \text{ ml} = 0,8 \text{ ml}$$
$$= 0,88 \text{ ml}$$
- Paraffin cair 5%  
dilebihkan 10%  
$$: \frac{5}{100} \times 400 \text{ ml} = 20 \text{ ml}$$
$$= 22 \text{ ml}$$
- Lanolin 5%  
dilebihkan 10%  
$$: \frac{5}{100} \times 400 \text{ gram} = 20 \text{ gram}$$
$$= 22 \text{ gram}$$
- Metil paraben 0,1  
dilebihkan 10%  
$$: \frac{0,1}{100} \times 400 \text{ gram} = 0,4 \text{ gram}$$
$$= 0,44 \text{ gram}$$
- Propil paraben 0,05  
dilebihkan 10%  
$$: \frac{0,05}{100} \times 400 \text{ gram} = 0,2 \text{ gram}$$
$$= 0,22 \text{ gram}$$
- Aquadest 100ml  
$$= 400 \text{ ml} + 10\%$$
$$= 440 \text{ ml}$$

$$= 440 \text{ ml} - (22 + 13,2 + 8,8 + 8,8 + 0,88 + 22 + 22 + 0,44 + 0,22)$$

$$= 440 \text{ ml} - 98,34 \text{ gram}$$

$$= 341,66 \text{ ml}$$

## 2. Formulasi 2 (5%)

- Zat Aktif 5%  
dilebihkan 10%  
$$: \frac{5}{100} \times 400\text{gram} = 20 \text{ gram}$$
$$= 22 \text{ gram}$$
- Asam Stearat 5%  
dilebihkan 10%  
$$: \frac{5}{100} \times 400\text{gram} = 20 \text{ gram}$$
$$= 22 \text{ gram}$$
- Setil alkohol 3%  
dilebihkan 10%  
$$: \frac{3}{100} \times 400\text{gram} = 12 \text{ gram}$$
$$= 13,2 \text{ gram}$$
- Span 80 2%  
dilebihkan 10%  
$$: \frac{2}{100} \times 400\text{ml} = 8\text{ml}$$
$$= 8,8 \text{ ml}$$
- Tween 80 2%  
dilebihkan 10%  
$$: \frac{2}{100} \times 400\text{ml} = 8 \text{ ml}$$
$$= 8,8 \text{ ml}$$
- Propilenglikol 0,2  
dilebihkan 10%  
$$: \frac{0,2}{100} \times 400\text{ml} = 0,8 \text{ ml}$$
$$= 0,88 \text{ ml}$$
- Paraffin cair 5%  
dilebihkan 10%  
$$: \frac{5}{100} \times 400\text{ml} = 20 \text{ ml}$$
$$= 22 \text{ ml}$$
- Lanolin 5%  
dilebihkan 10%  
$$: \frac{5}{100} \times 400\text{gram} = 20 \text{ gram}$$
$$= 22 \text{ gram}$$
- Metil paraben 0,1  
dilebihkan 10%  
$$: \frac{0,1}{100} \times 400\text{gram} = 0,4 \text{ gram}$$
$$= 0,44 \text{ gram}$$
- Propil paraben 0,05  
dilebihkan 10%  
$$: \frac{0,05}{100} \times 400\text{gram} = 0,2 \text{ gram}$$
$$= 0,22 \text{ gram}$$

$$\begin{aligned} & \text{• Aquadest 100ml} \\ & = 400 \text{ ml} + 10\% \\ & = 440 \text{ ml} \end{aligned}$$

$$= 440 \text{ ml} - (22 + 22 + 13,2 + 8,8 + 8,8 + 0,88 + 22 + 22 + 0,44 + 0,22)$$

$$= 440 \text{ ml} - 120,34 \text{ gram}$$

$$= 319,66 \text{ ml}$$

### 3. Formula 3. (15%)

- Zat Aktif 15%  
dilebihkan 10%  
$$: \frac{15}{100} \times 400\text{gram} = 60 \text{ gram}$$
$$= 66 \text{ gram}$$
  - Asam Stearat 5%  
dilebihkan 10%  
$$: \frac{5}{100} \times 400\text{gram} = 20 \text{ gram}$$
$$= 22 \text{ gram}$$
  - Setil alkohol 3%  
dilebihkan 10%  
$$: \frac{3}{100} \times 400\text{gram} = 12 \text{ gram}$$
$$= 13,2 \text{ gram}$$
  - Span 80 2%  
dilebihkan 10%  
$$: \frac{2}{100} \times 400 \text{ ml} = 8 \text{ ml}$$
$$= 8,8 \text{ ml}$$
  - Tween 80 2%  
dilebihkan 10%  
$$: \frac{2}{100} \times 400 \text{ ml} = 8 \text{ ml}$$
$$= 8,8 \text{ ml}$$
  - Propilenglikol 0,2  
dilebihkan 10%  
$$: \frac{0,2}{100} \times 400\text{ml} = 0,8\text{ml}$$
$$= 0,88 \text{ ml}$$
  - Paraffin cair 5%  
dilebihkan 10%  
$$: \frac{5}{100} \times 400\text{ml} = 20 \text{ ml}$$
$$= 22 \text{ ml}$$
  - Lanolin 5%  
dilebihkan 10%  
$$: \frac{5}{100} \times 400\text{gram} = 20 \text{ gram}$$
$$= 22 \text{ gram}$$
  - Metil paraben 0,1  
dilebihkan 10%  
$$: \frac{0,1}{100} \times 400\text{gram} = 0,4 \text{ gram}$$
$$= 0,44 \text{ gram}$$
  - Propil paraben 0,05  
dilebihkan 10%  
$$: \frac{0,05}{100} \times 400\text{gram} = 0,2\text{gram}$$
$$= 0,22 \text{ gram}$$
  - Aquadest 100ml  
$$= 400 \text{ ml} + 10\%$$
$$= 440$$
- $$= 440 \text{ ml} - (66+22+13,2 +8,8 +8,8 +0,88 +22+22 +0,44 +0,22)$$
  

$$= 440 \text{ ml} - 164,34 \text{ gram}$$
  

$$= 275,66 \text{ ml}$$

4. Formula 4. (25%)

• Zat Aktif 25%  
dilebihkan 10%  
$$:\frac{25}{100} \times 400\text{gram} = 100 \text{ gram}$$
$$= 110 \text{ gram}$$

• Asam Stearat 5%  
dilebihkan 10%  
$$:\frac{5}{100} \times 400\text{gram} = 20 \text{ gram}$$
$$= 22 \text{ gram}$$

• Setil alkohol 3%  
dilebihkan 10%  
$$:\frac{3}{100} \times 400 \text{ gram} = 12 \text{ gram}$$
$$= 13,2 \text{ gram}$$

• Span 80 2%  
dilebihkan 10%  
$$:\frac{2}{100} \times 400 \text{ ml} = 8 \text{ ml}$$
$$= 8,8 \text{ ml}$$

• Tween 80 2%  
dilebihkan 10%  
$$:\frac{2}{100} \times 400 \text{ ml} = 8 \text{ ml}$$
$$= 8,8 \text{ ml}$$

• Propilenglikol 0,2  
dilebihkan 10%  
$$:\frac{0,2}{100} \times 400\text{ml} = 0,8 \text{ ml}$$
$$= 0,88 \text{ ml}$$

• Paraffin cair 5%  
dilebihkan 10%  
$$:\frac{5}{100} \times 400\text{ml} = 20 \text{ ml}$$
$$= 22 \text{ ml}$$

• Lanolin 5%  
dilebihkan 10%  
$$:\frac{5}{100} \times 400\text{gram} = 20 \text{ gram}$$
$$= 22 \text{ gram}$$

• Metil paraben 0,1  
dilebihkan 10%  
$$:\frac{0,1}{100} \times 400\text{gram} = 0,4 \text{ gram}$$
$$= 0,44 \text{ gram}$$

• Propil paraben 0,05  
dilebihkan 10%  
$$:\frac{0,05}{100} \times 400\text{ml} = 0,2 \text{ gram}$$
$$= 0,22 \text{ gram}$$

• Aquadest 100ml  
$$= 400 \text{ ml} + 10\%$$
$$= 440$$

$$= 440 \text{ ml} - (110 + 22 + 13,2 + 8,8 + 8,8 + 0,88 + 22 + 22 + 0,44 + 0,22)$$
$$= 440 \text{ ml} - 208,34 \text{ gram}$$
$$= 231,66 \text{ ml}$$

5. Formulasi 5 . (35%)

• Zat Aktif 35%  
dilebihkan 10%  
$$: \frac{35}{100} \times 400 \text{ gram} = 140 \text{ gram}$$
$$= 154 \text{ gram}$$

• Asam Stearat 5%  
dilebihkan 10%  
$$: \frac{5}{100} \times 400 \text{ gram} = 20 \text{ gram}$$
$$= 22 \text{ gram}$$

• Setil alkohol 3%  
dilebihkan 10%  
$$: \frac{3}{100} \times 400 \text{ gram} = 12 \text{ gram}$$
$$= 13,2 \text{ gram}$$

• Span 80 2%  
dilebihkan 10%  
$$: \frac{2}{100} \times 400 \text{ ml} = 8 \text{ ml}$$
$$= 8,8 \text{ ml}$$

• Tween 80 2%  
dilebihkan 10%  
$$: \frac{2}{100} \times 400 \text{ ml} = 8 \text{ ml}$$
$$= 8,8 \text{ ml}$$

• Propilenglikol 0,2  
dilebihkan 10%  
$$: \frac{0,2}{100} \times 400 \text{ ml} = 0,8 \text{ ml}$$
$$= 0,88 \text{ ml}$$

• Paraffin cair 5%  
dilebihkan 10%  
$$: \frac{5}{100} \times 400 \text{ ml} = 20 \text{ ml}$$
$$= 22 \text{ ml}$$

• Lanolin 5%  
dilebihkan 10%  
$$: \frac{5}{100} \times 400 \text{ gram} = 20 \text{ gram}$$
$$= 22 \text{ gram}$$

• Metil paraben 0,1  
dilebihkan 10%  
$$: \frac{0,1}{100} \times 400 \text{ gram} = 0,4 \text{ gram}$$
$$= 0,44 \text{ gram}$$

• Propil paraben 0,05  
dilebihkan 10%  
$$: \frac{0,05}{100} \times 400 \text{ gram} = 0,2 \text{ gram}$$
$$= 0,22 \text{ gram}$$

• Aquadest 100ml  
$$= 400 \text{ ml} + 10\%$$
$$= 440$$

$$= 440 \text{ ml} - (154 + 22 + 13,2 + 8,8 + 8,8 + 0,88 + 22 + 22 + 0,44 + 0,22)$$
$$= 440 \text{ ml} - 252,34 \text{ gram}$$
$$= 187,66 \text{ ml}$$

## Lampiran 7. Perhitungan Persentase Randemen

### 1. Perhitungan hasil randemen

$$\text{Randemen \%} = \frac{\text{bobot akhir}}{\text{bobot awal}} \times 100\%$$

$$= \frac{953}{1.500} \times 100\%$$

$$= 63,5\%$$

### 2. Perhitungan kadar air

$$= \left( \frac{B-C}{B-A} \right) = \frac{31,25-31,13}{31,25-28,25}$$

$$= \frac{0,12 \text{ gram}}{3 \text{ gram}} \times 100\%$$

$$= 0,04 = 4\%$$

### 3. Perhitungan kadar abu

$$= \left( \frac{C-A}{B-A} \right) = \frac{30.875-30.500}{30.500-30.500}$$

$$= \frac{0,375 \text{ gram}}{3 \text{ gram}} \times 100\%$$

$$= 12,5\%$$

### 4. Perhitungan susut pengeringan

$$= \left( \frac{A-B}{A} \right) = \frac{1.000 \text{ mg} - 980 \text{ mg}}{1.000 \text{ mg}}$$

$$= \frac{20}{1.000} = 0,02 \times 100\%$$

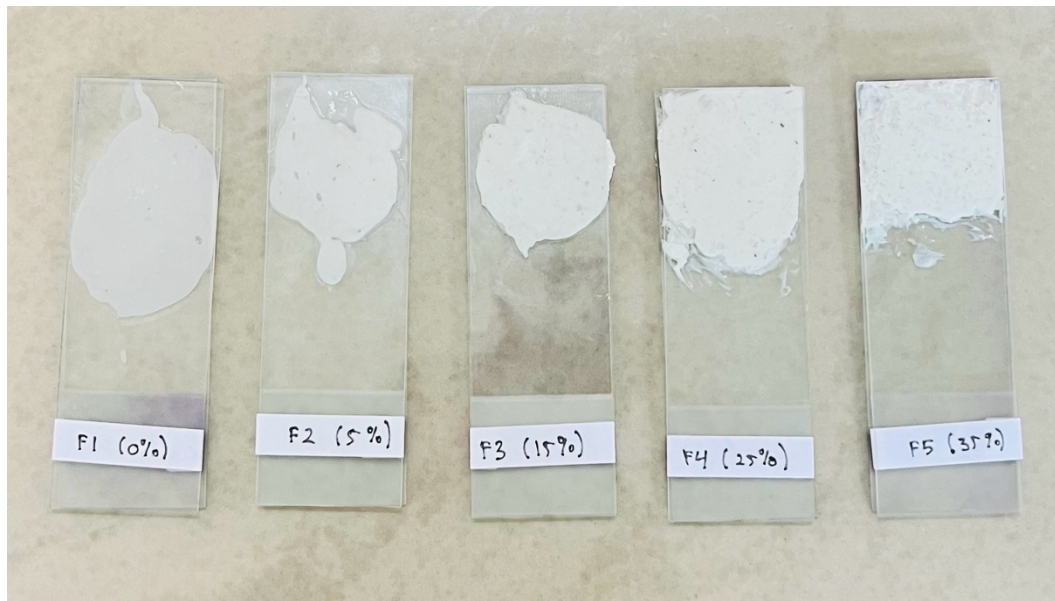
$$= 2\%$$

## Lampiran 8. Hasil Uji Organoleptis



**Gambar 12.** Hasil Evaluasi Organoleptis *body scrub* cangkang kerang darah (*Anadara granosa* L.,)

## Lampiran 9. Hasil Uji Homogenitas



**Gambar 13.** Hasil Evaluasi Uji Homogenitas *body scrub* cangkang kerang darah (*Anadara granosa* L.,)

## Lampiran 10. Hasil Uji Tipe Krim



**Gambar 14.** Hasil Evaluasi Uji Tipe Krim *body scrub* cangkang kerang darah (*Anadara granosa L.*)

### Lampiran 11. Hasil Uji pH

| Formula 1<br>(0%)                                                                 | Formula 2<br>(5%)                                                                 | Formula 3 (15%)                                                                   | Formula 4<br>(25%)                                                                 | Formula 5<br>(35%)                                                                  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| 6,31                                                                              | 6,44                                                                              | 6,52                                                                              | 6,53                                                                               | 6,57                                                                                |

**Gambar 15.** Hasil Uji Evaluasi pH *body scrub* cangkang kerang darah (*Anadara granosa L.*)

## Lampiran 12. Hasil Analisa Data Uji pH

1. Formula pada uji pH 4°C

### Tests of Normality

|       | formulas<br>i | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|-------|---------------|---------------------------------|----|-------|--------------|----|------|
|       |               | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| ujiph | 0%            | .253                            | 5  | .200* | .880         | 5  | .311 |
|       | 5%            | .261                            | 5  | .200* | .916         | 5  | .507 |
|       | 15%           | .196                            | 5  | .200* | .961         | 5  | .814 |
|       | 25%           | .243                            | 5  | .200* | .894         | 5  | .377 |
|       | 35%           | .201                            | 5  | .200* | .946         | 5  | .707 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

### Tests of Homogeneity of Variances

|               |                                         | Levene<br>Statistic | df1 | df2   | Sig. |
|---------------|-----------------------------------------|---------------------|-----|-------|------|
| formula<br>si | Based on Mean                           | .150                | 1   | 3     | .724 |
|               | Based on Median                         | .150                | 1   | 3     | .724 |
|               | Based on Median and<br>with adjusted df | .150                | 1   | 2.000 | .736 |
|               | Based on trimmed<br>mean                | .150                | 1   | 3     | .724 |

### ANOVA

Uji pH

|                   | Sum of<br>Squares | df | Mean<br>Square | F     | Sig. |
|-------------------|-------------------|----|----------------|-------|------|
| Between<br>Groups | 48.833            | 21 | 2.325          | 5.980 | .083 |
| Within Groups     | 1.167             | 3  | .389           |       |      |
| Total             | 50.000            | 24 |                |       |      |

2. Formula pada uji pH suhu 25°C

### Tests of Normality

|       | formula<br>si | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|-------|---------------|---------------------------------|----|-------|--------------|----|------|
|       |               | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| ujiph | 0%            | .238                            | 5  | .200* | .938         | 5  | .650 |
|       | 5%            | .215                            | 5  | .200* | .920         | 5  | .531 |
|       | 15%           | .145                            | 5  | .200* | .994         | 5  | .991 |
|       | 25%           | .202                            | 5  | .200* | .947         | 5  | .715 |
|       | 35%           | .163                            | 5  | .200* | .960         | 5  | .807 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

### Tests of Homogeneity of Variances

|       |                                         | Levene<br>Statistic | df1 | df2    | Sig. |
|-------|-----------------------------------------|---------------------|-----|--------|------|
| ujiph | Based on Mean                           | .892                | 4   | 20     | .487 |
|       | Based on Median                         | .639                | 4   | 20     | .641 |
|       | Based on Median and<br>with adjusted df | .639                | 4   | 15.752 | .642 |
|       | Based on trimmed<br>mean                | .854                | 4   | 20     | .508 |

### ANOVA

Ujiph

|                   | Sum of<br>Squares | df | Mean<br>Square | F     | Sig. |
|-------------------|-------------------|----|----------------|-------|------|
| Between<br>Groups | 47.500            | 21 | 2.262          | 2.714 | .223 |
| Within Groups     | 2.500             | 3  | .833           |       |      |
| Total             | 50.000            | 24 |                |       |      |

Lampiran 13. Hasil Uji Evaluasi Daya Sebar

| Formula 1<br>(0%)                                                                 | Formula 2<br>(5%)                                                                 | Formula 3<br>(15%)                                                                | Formula 4<br>(25%)                                                                 | Formula 5<br>(35%)                                                                  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| 6,06 cm                                                                           | 6,09 cm                                                                           | 5,65 cm                                                                           | 5,14 cm                                                                            | 4,14 cm                                                                             |

**Gambar 16.** Hasil Uji Evaluasi Daya Sebar *body scrub* cangkang kerang darah (*Anadara granosa L.*)

## Lampiran 14. Hasil Analisa Data Daya Sebar

### 1. Formula pada Daya Sebar 4°C

#### Tests of Normality

|           | Formulasi | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|-----------|-----------|---------------------------------|----|-------|--------------|----|------|
|           |           | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| Dayasebar | 0%        | .204                            | 5  | .200* | .943         | 5  | .690 |
|           | 5%        | .204                            | 5  | .200* | .945         | 5  | .704 |
|           | 15%       | .225                            | 5  | .200* | .846         | 5  | .181 |
|           | 25%       | .233                            | 5  | .200* | .858         | 5  | .222 |
|           | 35%       | .212                            | 5  | .200* | .919         | 5  | .521 |

\*. This is a lower bound of the true significance.

#### a. Lilliefors Significance Correction

#### Tests of Homogeneity of Variances

|           |                                      | Levene    | df1 | df2    | Sig. |
|-----------|--------------------------------------|-----------|-----|--------|------|
|           |                                      | Statistic |     |        |      |
| Dayasebar | Based on Mean                        | 3.276     | 4   | 20     | .032 |
|           | Based on Median                      | 2.348     | 4   | 20     | .089 |
|           | Based on Median and with adjusted df | 2.348     | 4   | 14.740 | .102 |
|           | Based on trimmed mean                | 3.207     | 4   | 20     | .035 |

#### ANOVA

Dayasebar

|                | Sum of Squares | df | Mean Square | F      | Sig.  |
|----------------|----------------|----|-------------|--------|-------|
| Between Groups | 184855.440     | 4  | 46213.860   | 92.247 | <.001 |
| Within Groups  | 10019.600      | 20 | 500.980     |        |       |
| Total          | 194875.040     | 24 |             |        |       |

2. Formula pada daya sebar suhu 25°C

### Tests of Normality

|           | Formulasi | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|-----------|-----------|---------------------------------|----|-------|--------------|----|------|
|           |           | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| Dayasebar | 0%        | .279                            | 5  | .200* | .894         | 5  | .378 |
|           | 5%        | .315                            | 5  | .117  | .798         | 5  | .078 |
|           | 15%       | .203                            | 5  | .200* | .912         | 5  | .479 |
|           | 25%       | .289                            | 5  | .200* | .825         | 5  | .129 |
|           | 35%       | .203                            | 5  | .200* | .946         | 5  | .708 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

### Tests of Homogeneity of Variances

|           |                                      | Levene Statistic | df1 | df2    | Sig. |
|-----------|--------------------------------------|------------------|-----|--------|------|
| Dayasebar | Based on Mean                        | 1.592            | 4   | 20     | .215 |
|           | Based on Median                      | .801             | 4   | 20     | .539 |
|           | Based on Median and with adjusted df | .801             | 4   | 18.045 | .540 |
|           | Based on trimmed mean                | 1.523            | 4   | 20     | .234 |

### ANOVA

Dayasebar

|                | Sum of Squares | df | Mean Square | F      | Sig.  |
|----------------|----------------|----|-------------|--------|-------|
| Between Groups | 266996.560     | 4  | 66749.140   | 93.264 | <.001 |
| Within Groups  | 14314.000      | 20 | 715.700     |        |       |
| Total          | 281310.560     | 24 |             |        |       |

### Lampiran 15. Hasil Uji Evaluasi Daya Lekat

| Formula 1<br>(0%)                                                                 | Formula 2<br>(5%)                                                                 | Formula 3<br>(15%)                                                                | Formula 4<br>(25%)                                                                 | Formula 5<br>(35%)                                                                  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| 05,97 detik                                                                       | 05,39 detik                                                                       | 06,50 detik                                                                       | 06,72 detik                                                                        | 05,99 detik                                                                         |

**Gambar 17.** Hasil Uji Evaluasi Daya Lekat *body scrub* cangkang kerang darah (*Anadara granosa* L.,)

## Lampiran 16. Hasil Analisa Data Daya Lekat

1. Formula pada daya lekat suhu 4°C

### Tests of Normality

|           | Formula | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|-----------|---------|---------------------------------|----|-------|--------------|----|------|
|           |         | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| dayalekat | 0%      | .189                            | 5  | .200* | .958         | 5  | .793 |
|           | 5%      | .225                            | 5  | .200* | .875         | 5  | .288 |
|           | 15%     | .302                            | 5  | .154  | .827         | 5  | .132 |
|           | 25%     | .228                            | 5  | .200* | .852         | 5  | .200 |
|           | 35%     | .201                            | 5  | .200* | .951         | 5  | .744 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

### Tests of Homogeneity of Variances

|           |                                      | Levene    | df1 | df2    | Sig. |
|-----------|--------------------------------------|-----------|-----|--------|------|
|           |                                      | Statistic |     |        |      |
| dayalekat | Based on Mean                        | 2.380     | 4   | 20     | .086 |
|           | Based on Median                      | 1.697     | 4   | 20     | .190 |
|           | Based on Median and with adjusted df | 1.697     | 4   | 15.456 | .201 |
|           | Based on trimmed mean                | 2.338     | 4   | 20     | .090 |

### ANOVA

dayalekat

|                | Sum of Squares | df | Mean Square | F     | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 20243.200      | 4  | 5060.800    | 2.137 | .114 |
| Within Groups  | 47364.800      | 20 | 2368.240    |       |      |
| Total          | 67608.000      | 24 |             |       |      |

2. Formula pada daya lekat suhu 25°C

### Tests of Normality

|           | Formula<br>si | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|-----------|---------------|---------------------------------|----|-------|--------------|----|------|
|           |               | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| dayalekat | 0%            | .254                            | 5  | .200* | .918         | 5  | .520 |
|           | 5%            | .154                            | 5  | .200* | .985         | 5  | .961 |
|           | 15%           | .212                            | 5  | .200* | .927         | 5  | .576 |
|           | 25%           | .215                            | 5  | .200* | .901         | 5  | .415 |
|           | 35%           | .218                            | 5  | .200* | .924         | 5  | .558 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

### Tests of Homogeneity of Variances

|           |                                         | Levene<br>Statistic | df1 | df2   | Sig. |
|-----------|-----------------------------------------|---------------------|-----|-------|------|
| dayalekat | Based on Mean                           | 4.537               | 4   | 20    | .009 |
|           | Based on Median                         | 1.458               | 4   | 20    | .252 |
|           | Based on Median and<br>with adjusted df | 1.458               | 4   | 7.786 | .302 |
|           | Based on trimmed<br>mean                | 4.429               | 4   | 20    | .010 |

### ANOVA

dayalekat

|                   | Sum of<br>Squares | df | Mean<br>Square | F      | Sig.  |
|-------------------|-------------------|----|----------------|--------|-------|
| Between<br>Groups | 35671.200         | 4  | 8917.800       | 11.201 | <.001 |
| Within Groups     | 15922.800         | 20 | 796.140        |        |       |
| Total             | 51594.000         | 24 |                |        |       |

### Lampiran 17. Hasil Uji Evaluasi Viskositas

| Formula 1<br>(0%)                                                                 | Formula 2<br>(5%)                                                                 | Formula 3<br>(15%)                                                                | Formula 4<br>(25%)                                                                 | Formula 5<br>(35%)                                                                  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |
| 3.250 cps                                                                         | 7.500 cps                                                                         | 7.500 cps                                                                         | 14.500 cps                                                                         | 20.000 cps                                                                          |

**Gambar 18.** Hasil Uji Evaluasi Viskositas *body scrub* cangkang kerang darah (*Anadara granosa* L.,)

## Lampiran 18. Hasil Analisa Data Uji Viskositas

1. Formula pada uji viskositas suhu 4°C

### Tests of Normality

|            | Formula | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|------------|---------|---------------------------------|----|-------|--------------|----|------|
|            |         | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| viskositas | 0%      | .308                            | 5  | .136  | .884         | 5  | .330 |
|            | 5%      | .244                            | 5  | .200* | .876         | 5  | .292 |
|            | 15%     | .194                            | 5  | .200* | .979         | 5  | .927 |
|            | 25%     | .180                            | 5  | .200* | .919         | 5  | .522 |
|            | 35%     | .268                            | 5  | .200* | .806         | 5  | .090 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

### Tests of Homogeneity of Variances

|            |                                      | Levene    | df1 | df2    | Sig. |
|------------|--------------------------------------|-----------|-----|--------|------|
|            |                                      | Statistic |     |        |      |
| viskositas | Based on Mean                        | 2.912     | 4   | 20     | .048 |
|            | Based on Median                      | 1.702     | 4   | 20     | .189 |
|            | Based on Median and with adjusted df | 1.702     | 4   | 11.428 | .217 |
|            | Based on trimmed mean                | 2.751     | 4   | 20     | .057 |

### ANOVA

viskositas

|                | Sum of Squares | df | Mean Square   | F      | Sig.  |
|----------------|----------------|----|---------------|--------|-------|
| Between Groups | 804177400.000  | 4  | 201044350.000 | 70.900 | <.001 |
| Within Groups  | 56712000.000   | 20 | 2835600.000   |        |       |
| Total          | 860889400.000  | 24 |               |        |       |

2. Formula pada uji viskositas suhu 25°C

### Tests of Normality

|            | Formula | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|------------|---------|---------------------------------|----|-------|--------------|----|------|
|            |         | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| viskositas | 0%      | .198                            | 5  | .200* | .932         | 5  | .612 |
|            | 5%      | .201                            | 5  | .200* | .949         | 5  | .731 |
|            | 15%     | .201                            | 5  | .200* | .923         | 5  | .547 |
|            | 25%     | .168                            | 5  | .200* | .981         | 5  | .940 |
|            | 35%     | .202                            | 5  | .200* | .920         | 5  | .530 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

### Tests of Homogeneity of Variances

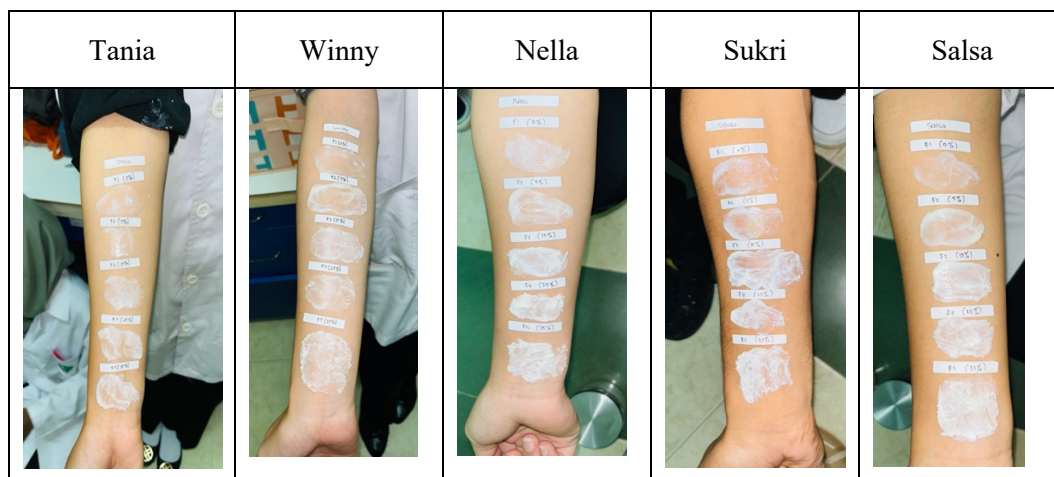
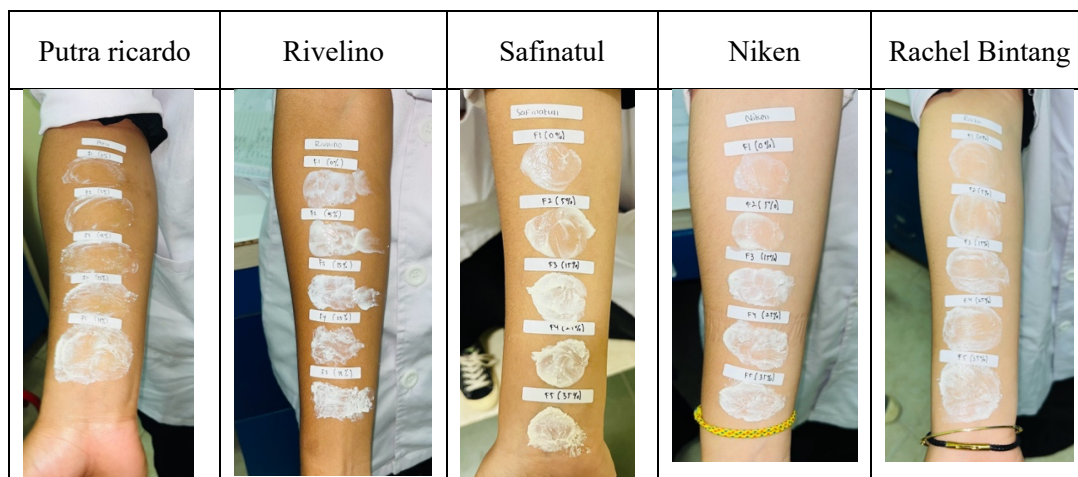
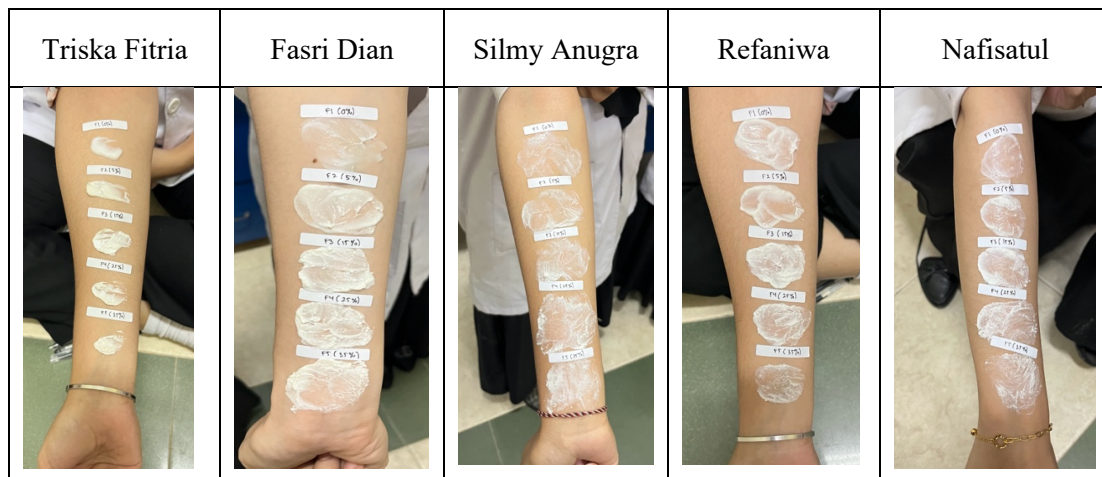
|            |                                      | Levene    |     |        | Sig. |
|------------|--------------------------------------|-----------|-----|--------|------|
|            |                                      | Statistic | df1 | df2    |      |
| viskositas | Based on Mean                        | 3.335     | 4   | 20     | .030 |
|            | Based on Median                      | 1.579     | 4   | 20     | .219 |
|            | Based on Median and with adjusted df | 1.579     | 4   | 14.313 | .233 |
|            | Based on trimmed mean                | 3.220     | 4   | 20     | .034 |

### ANOVA

viskositas

|                | Sum of Squares | df | Mean Square | F      | Sig.  |
|----------------|----------------|----|-------------|--------|-------|
| Between Groups | 800361400.000  | 4  | .000        | 72.857 | <.001 |
| Within Groups  | 54927000.000   | 20 | 2746350.000 |        |       |
| Total          | 855288400.000  | 24 |             |        |       |

## Lampiran 19. Hasil Uji Evaluasi Uji Iritasi



**Gambar 19.** Hasil Uji Evaluasi iritasi *body scrub* cangkang kerang darah (*Anadara granosa* L.,)

**Lampiran 20.** Hasil Uji Stabilitas *Cycling test body scrub* cangkang kerang darah  
(*Anadara granosa* L.,)



**Gambar 20.** Uji *Cycling test body scrub* cangkang kerang darah  
(*Anadara granosa* L.,)