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# LAMPIRAN

**Lampiran 1.** Perhitungan ekstrak daun Murbei (*Morus alba L.*)

IC<sub>50</sub> Ekstrak etanol 70% daun Murbei (*Morus alba L.*) 8,35 µg/mL

$$\begin{aligned}\text{Dosis IC}_{50} &= \text{IC}_{50} \times 100 \\ &= \frac{8,35\text{mg}}{1000\text{mL}} \times 100 \\ &= 0,835 \text{ mg/mL}\end{aligned}$$

$$\begin{aligned}\text{Untuk sediaan 100 mL} &= 0,835 \text{ mg/mL} \times 100 \text{ mL} \\ &= 83,5 \text{ mg} \rightarrow 0,0835 \text{ g} \rightarrow 0,08 \text{ g}\end{aligned}$$

## Lampiran 2. Perhitungan formula

### 1. Perhitungan formula 1 masker gel *peel off* ekstrak etanol daun Murbei

$$\begin{aligned}
 \text{Ekstrak etanol daun Murbei} &= \frac{0,08}{100} \times 100\text{g} = 0,08\text{g} \\
 \text{PVA} &= \frac{10}{100} \times 100\text{g} = 10\text{g} \\
 \text{Gelatin} &= \frac{10}{100} \times 100\text{g} = 10\text{g} \\
 \text{Propilenglikol} &= \frac{10}{100} \times 100\text{g} = 10\text{g} \\
 \text{Metil paraben} &= \frac{0,2}{100} \times 100\text{g} = 0,2\text{g} \\
 \text{Etanol 96\%} &= \frac{15}{100} \times 100\text{g} = 15\text{mL} \\
 \text{Aquadest} &= 100 - (0,08 + 10 + 10 + 10 + 0,2 + 15) \\
 &= 100 - 45,28 \\
 &= 54,72 \text{ mL}
 \end{aligned}$$

### 2. Perhitungan formula 2 masker gel *peel off* ekstrak etanol daun Murbei

$$\begin{aligned}
 \text{Ekstrak etanol daun Murbei} &= \frac{0,08}{100} \times 100\text{g} = 0,08\text{g} \\
 \text{PVA} &= \frac{10}{100} \times 100\text{g} = 10\text{g} \\
 \text{Gelatin} &= \frac{12,5}{100} \times 100\text{g} = 12,5\text{g} \\
 \text{Propilenglikol} &= \frac{10}{100} \times 100\text{g} = 10\text{g} \\
 \text{Metil paraben} &= \frac{0,2}{100} \times 100\text{g} = 0,2\text{g} \\
 \text{Etanol 96\%} &= \frac{15}{100} \times 100\text{g} = 15\text{mL} \\
 \text{Aquadest} &= 100 - (0,08 + 10 + 12,5 + 10 + 0,2 + 15) \\
 &= 100 - 50,28 \\
 &= 49,72 \text{ mL}
 \end{aligned}$$

### 3. Perhitungan formula 3 masker gel *peel off* ekstrak etanol daun Murbei

$$\begin{aligned}
 \text{Ekstrak etanol daun Murbei} &= \frac{0,08}{100} \times 100\text{g} = 0,08\text{g} \\
 \text{PVA} &= \frac{10}{100} \times 100\text{g} = 10\text{g} \\
 \text{Gelatin} &= \frac{20}{100} \times 100\text{g} = 20\text{g} \\
 \text{Propilenglikol} &= \frac{10}{100} \times 100\text{g} = 10\text{g} \\
 \text{Metil paraben} &= \frac{0,2}{100} \times 100\text{g} = 0,2\text{g} \\
 \text{Etanol 96\%} &= \frac{15}{100} \times 100\text{g} = 15\text{mL} \\
 \text{Aquadest} &= 100 - (0,08 + 10 + 20 + 10 + 0,2 + 15) \\
 &= 100 - 55,28 \\
 &= 44,72 \text{ mL}
 \end{aligned}$$

4. Perhitungan formula 4 masker gel *peel off* ekstrak etanol daun Murbei

$$\begin{aligned}
 \text{Ekstrak etanol daun Murbei} &= \frac{0,08}{100} \times 100\text{g} = 0,08\text{g} \\
 \text{PVA} &= \frac{10}{100} \times 100\text{g} = 10\text{g} \\
 \text{HPMC} &= \frac{3}{100} \times 100\text{g} = 3\text{g} \\
 \text{Propilenglikol} &= \frac{10}{100} \times 100\text{g} = 10\text{g} \\
 \text{Metil paraben} &= \frac{0,2}{100} \times 100\text{g} = 0,2\text{g} \\
 \text{Etanol 96\%} &= \frac{15}{100} \times 100\text{g} = 15\text{mL} \\
 \text{Aquadest} &= 100 - (0,08 + 10 + 3 + 10 + 0,2 + 15) \\
 &= 100 - 38,28 \\
 &= 61,72 \text{ mL}
 \end{aligned}$$

5. Perhitungan formula 5 masker gel *peel off* ekstrak etanol daun Murbei

$$\begin{aligned}
 \text{Ekstrak etanol daun Murbei} &= \frac{0,08}{100} \times 100\text{g} = 0,08\text{g} \\
 \text{PVA} &= \frac{10}{100} \times 100\text{g} = 10\text{g} \\
 \text{HPMC} &= \frac{4}{100} \times 100\text{g} = 4\text{g} \\
 \text{Propilenglikol} &= \frac{10}{100} \times 100\text{g} = 10\text{g} \\
 \text{Metil paraben} &= \frac{0,2}{100} \times 100\text{g} = 0,2\text{g} \\
 \text{Etanol 96\%} &= \frac{15}{100} \times 100\text{g} = 15\text{mL} \\
 \text{Aquadest} &= 100 - (0,08 + 10 + 4 + 10 + 0,2 + 15) \\
 &= 100 - 39,28 \\
 &= 60,72 \text{ mL}
 \end{aligned}$$


6. Perhitungan formula 6 masker gel *peel off* ekstrak etanol daun Murbei

$$\begin{aligned}
 \text{Ekstrak etanol daun Murbei} &= \frac{0,08}{100} \times 100\text{g} = 0,08\text{g} \\
 \text{PVA} &= \frac{10}{100} \times 100\text{g} = 10\text{g} \\
 \text{HPMC} &= \frac{5}{100} \times 100\text{g} = 5\text{g} \\
 \text{Propilenglikol} &= \frac{10}{100} \times 100\text{g} = 10\text{g} \\
 \text{Metil paraben} &= \frac{0,2}{100} \times 100\text{g} = 0,2\text{g} \\
 \text{Etanol 96\%} &= \frac{15}{100} \times 100\text{g} = 15\text{mL} \\
 \text{Aquadest} &= 100 - (0,08 + 10 + 5 + 10 + 0,2 + 15) \\
 &= 100 - 40,28 \\
 &= 59,72 \text{ mL}
 \end{aligned}$$

7. Perhitungan formula 7 masker gel *peel off* ekstrak etanol daun Murbei
- Ekstrak etanol daun Murbei  $= \frac{0,08}{100} \times 100g = 0,08g$
- PVA  $= \frac{10}{100} \times 100g = 10g$
- Karbopol  $= \frac{0,5}{100} \times 100g = 0,5g$
- Propilenglikol  $= \frac{10}{100} \times 100g = 10g$
- Trietanolamin  $= \frac{2}{100} \times 100g = 2g$
- Metil paraben  $= \frac{0,2}{100} \times 100g = 0,2g$
- Etanol 96%  $= \frac{15}{100} \times 100g = 15mL$
- Aquadest  $= 100 - (0,08 + 10 + 0,5 + 10 + 2 + 0,2 + 15)$   
 $= 100 - 37,78$   
 $= 62,22 \text{ mL}$
8. Perhitungan formula 8 masker gel *peel off* ekstrak etanol daun Murbei
- Ekstrak etanol daun Murbei  $= \frac{0,08}{100} \times 100g = 0,08g$
- PVA  $= \frac{10}{100} \times 100g = 10g$
- Karbopol  $= \frac{1}{100} \times 100g = 1g$
- Propilenglikol  $= \frac{10}{100} \times 100g = 10g$
- Trietanolamin  $= \frac{2}{100} \times 100g = 2g$
- Metil paraben  $= \frac{0,2}{100} \times 100g = 0,2g$
- Etanol 96%  $= \frac{15}{100} \times 100g = 15mL$
- Aquadest  $= 100 - (0,08 + 10 + 1 + 10 + 2 + 0,2 + 15)$   
 $= 100 - 38,28$   
 $= 61,72 \text{ mL}$
9. Perhitungan formula 9 masker gel *peel off* ekstrak etanol daun Murbei
- Ekstrak etanol daun Murbei  $= \frac{0,08}{100} \times 100g = 0,08g$
- PVA  $= \frac{10}{100} \times 100g = 10g$
- Karbopol  $= \frac{1,5}{100} \times 100g = 1,5g$
- Propilenglikol  $= \frac{10}{100} \times 100g = 10g$
- Trietanolamin  $= \frac{2}{100} \times 100g = 2g$
- Metil paraben  $= \frac{0,2}{100} \times 100g = 0,2g$
- Etanol 96%  $= \frac{15}{100} \times 100g = 15mL$

$$\begin{aligned}\text{Aquadest} &= 100 - (0,08 + 10 + 1,5 + 10 + 2 + 0,2 + 15) \\ &= 100 - 38,78 \\ &= 61,22 \text{ mL}\end{aligned}$$

### Lampiran 3. Determinasi Tanaman Murbei (*Morus alba L.*)



**KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI**  
**UNIVERSITAS LAMBUNG MANGKURAT**  
**LABORATORIUM FMIPA**  
 Alamat: Jl. Jend. A. Yani Km. 35.8 Banjarbaru. Telp/Fax (0511) 4772826, website: www.labdasar-unlam.org

**SERTIFIKAT HASIL UJI**  
**Nomor: 350b/LB.LABDASAR/XII/2023**

|                 |                              |                 |                    |
|-----------------|------------------------------|-----------------|--------------------|
| Nomor Referensi | : XII-23-019                 | Tanggal Masuk   | : 4 Desember 2023  |
| Nama            | : Dewi Ayu Septiani          | Tanggal Selesai | : 27 Desember 2023 |
| Institusi       | : Universitas Borneo Lestari | Hasil Analisis  | : Determinasi      |
| No. Invoice     | : 315/TS-12/2023             | Jenis Tumbuhan  | : Murbei           |

**HABITUS**  
Perdu, 6 m.

**DAUN**  
Duduk daun berseling; helaian daun bercangap 3, pangkal tumpul, tepi bergerigi, pertulangan menjari, agak menonjol, permukaan atas dan bawah kasar, panjang 4-10 cm -2,5; tangkai daun 2-4.5 cm, warna daun hijau.

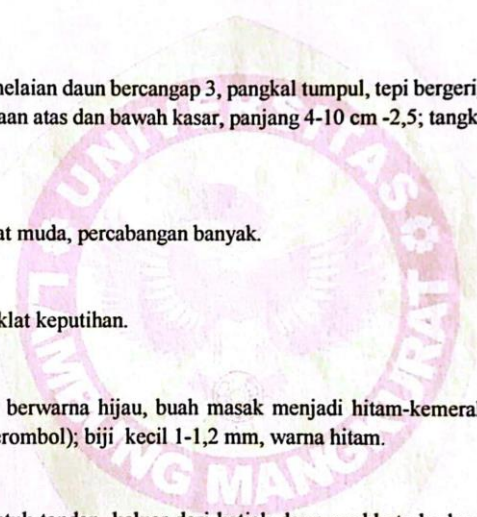

**BATANG**  
Silindris, berkayu, coklat muda, percabangan banyak.

**AKAR**  
Perakaran tunggang, coklat keputihan.

**BUAH**  
Buah buni, buah muda berwarna hijau, buah masak menjadi hitam-kemerahan, buahnya kecil dan saling berlekatan (bergerombol); biji kecil 1-1,2 mm, warna hitam.

**BUNGA**  
Bunga majemuk berbentuk tandan, keluar dari ketiak daun, mahkota berbentuk tajuk dan berwarna putih.

**NAMA LOKAL**  
Kerta, Kitau (Sumatera); Murbai, Besaran (Jawa).

CS Dipindai dengan CamScanner



**KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI  
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LABORATORIUM FMIPA**

Alamat: Jl. Jend. A. Yani Km. 35.8 Banjarbaru, Telp/Fax (0511) 4772826, website: [www.labdasar-unlam.org](http://www.labdasar-unlam.org)

**SERTIFIKAT HASIL UJI  
Nomor: 350b/LB.LABDASAR/XII/2023**

**KLASIFIKASI**

|            |   |                      |
|------------|---|----------------------|
| Kingdom    | : | Plantae              |
| Divisio    | : | Magnoliophyta        |
| Sub Divisi | : | -                    |
| Class      | : | Magnoliopsida        |
| Ordo       | : | Urticales            |
| Family     | : | Moraceae             |
| Genus      | : | Marus                |
| Species    | : | <i>Morus alba</i> L. |

**Synonims :**

*Morus Austalis* Pour.

*Morus Atropurpurea* Roxb.

Banjarbaru, 28 Desember 2023

Manager Bencak,

Dr. Totok Wianto, S.Si., M.Si.






NIP 19780404 200312 1 004



Dipindai dengan CamScanner



**Lampiran 4.** Pembuatan Simplisia Daun Murbei (*Morus alba L.*)

| No. | Keterangan  | Dokumentasi   |
|-----|---|---|
| 1.  | Pengambilan sampel daun Murbei ( <i>Morus alba L.</i> )                 |     |
| 2.  | Sortasi basah daun Murbei ( <i>Morus alba L.</i> )                      |    |
| 3.  | Pencucian daun Murbei ( <i>Morus alba L.</i> )                          |  |
| 4.  | Perajangan daun Murbei ( <i>Morus alba L.</i> )                         |  |
| 5.  | Pengeringan daun Murbei ( <i>Morus alba L.</i> ) dibawah sinar matahari |   |

- 
6. Sortasi kering daun Murbei (*Morus alba L.*)



7. Penghalusan simplisia daun Murbei (*Morus alba L.*) dengan menggunakan blender








8. Pengayakan simplisia daun Murbei (*Morus alba L.*) dengan ayakan mesh 40



9. Penimbangan bubuk simplisia daun Murbei (*Morus alba L.*)



**Lampiran 5. Pembuatan Ekstrak Etanol 70% Daun Murbei (*Morus alba L.*)**

| No. | Keterangan   | Dokumentasi   |
|-----|--|---|
| 1.  | Proses maserasi daun Murbei ( <i>Morus alba L.</i> )               |     |
| 2.  | Pengadukan setiap 6 jam  |   |
| 3.  | Penyaringan maserat  |  |
| 4.  | Hasil maserasi   |  |
| 5.  | Pemisahan ekstrak dan pelarut menggunakan <i>rotary evaporator</i> |  |

- 
6. Penguapan ekstrak menggunakan *waterbath*



7. Penimbangan cawan kosong



8. Penimbangan bobot tetap



### Lampiran 6. Perhitungan Bobot Tetap dan %Rendemen

#### 1. Bobot Tetap Ekstrak

$$\text{Diketahui : Bobot ekstrak 1 jam pertama} = 137,8527\text{g}$$

$$\text{Bobot ekstrak 1 jam kedua} = 137,8524\text{g}$$

$$\text{Bobot Tetap} = \text{Bobot ekstrak 1 jam pertama} - \text{Bobot ekstrak 1 jam kedua}$$

$$= 137,8527\text{g} - 137,8524\text{g}$$

$$= 0,0003\text{g}$$

#### 2. %Rendemen Ekstrak Kental

$$\text{Diketahui : Bobot cawan kosong} = 102,36\text{g}$$

$$\text{Bobot cawan + ekstrak} = 137,85\text{g}$$

$$\text{Bobot simplisia} = 500\text{g}$$

$$\text{Bobot ekstrak} = (\text{Bobot cawan+ekstrak}) - \text{Bobot cawan kosong}$$

$$= 137,85\text{g} - 102,36\text{g}$$

$$= 35,49\text{g}$$

$$\% \text{Rendemen} = \frac{\text{Bobot ekstrak yang diperoleh (g)}}{\text{Bobot simplisia yang digunakan (g)}} \times 100\%$$

$$= \frac{35,49\text{g}}{500\text{g}} \times 100\%$$

$$= 7,10\%$$

**Lampiran 7.** Pembuatan Sediaan Masker Gel *Peel Off* Ekstrak Etanol 70% Daun Murbei (*Morus alba L.*)

| No. | Keterangan   | Dokumentasi  |
|-----|--|--|
| 1.  | Timbang semua bahan  |   |
| 2.  | Kembangkan PVA dalam aquadest aduk hingga homogen diatas <i>hotplate</i> |  |

- 
3. Pindahkan PVA yang sudah mengembang kedalam mortir lalu tambahkan masing-masing basis gel yang sudah dikembangkan dan aduk ad homogen



4. Tambahkan metil paraben yang sudah didispersikan dalam propilenglikol kedalam mortir



5. Tambahkan trietanolamin kedalam mortir (khusus yang menggunakan basis gel karbopol)



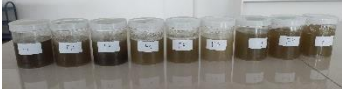
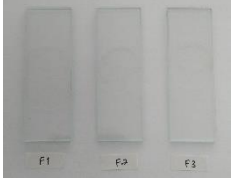



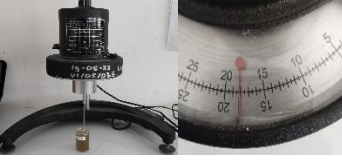
6. Tambahkan ekstrak kental yang sudah didispersikan kedalam etanol 96% kedalam mortir



7. Aduk ad homogen



**Lampiran 8.** Uji Evaluasi Sediaan Masker Gel *Peel Off* Ekstrak Etanol 70% Daun Murbei (*Morus alba L.*)

| No. | Keterangan       | Dokumentasi   |
|-----|------------------|---|
| 1.  | Uji Organoleptis |     |
| 2.  | Uji Homogenitas  |    |
| 3.  | Uji pH           |   |
| 4.  | Uji Daya Sebar   |  |
| 5.  | Uji Daya Lekat   |   |
| 6.  | Uji Viskositas   |   |



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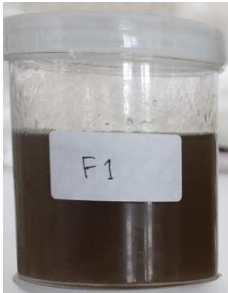
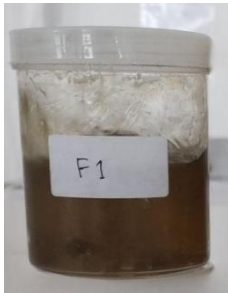
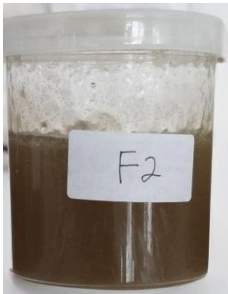
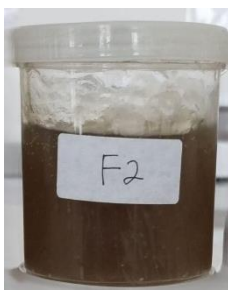
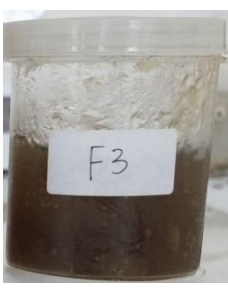
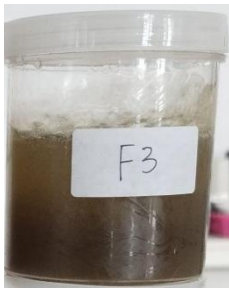
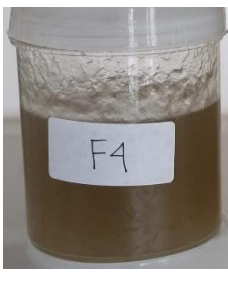
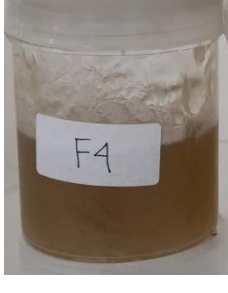
7. Uji Waktu Meringing



8. Uji Stabilitas



**Lampiran 9.** Uji Organoleptis Sediaan Masker Gel *Peel Off* Ekstrak Etanol 70% Daun Murbei (*Morus alba L.*)

| <b>Formula</b> | <b>Konsentrasi</b> | <b>Sebelum Stabilitas</b>   | <b>Sesudah Stabilitas</b>   |
|----------------|--------------------|---|---|
| F1             | Gelatin 4%         |    |    |
| F2             | Gelatin 8%         |   |   |
| F3             | Gelatin 12%        |  |  |
| F4             | HPMC 3%            |  |  |

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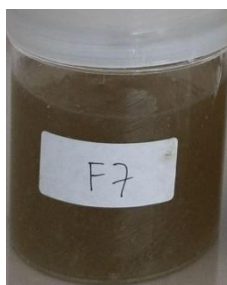
F5 HPMC 4%



F6 HPMC 5%



F7 Karbopol 0,5%



F8 Karbopol 0,75%



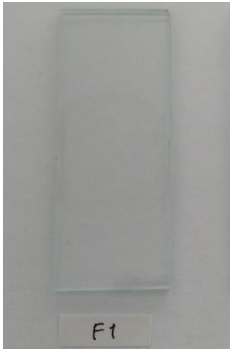
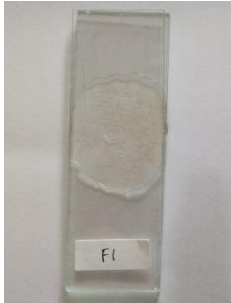




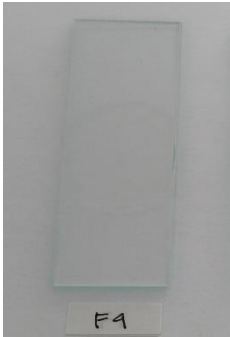

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F9      Karbopol 1%



**Lampiran 10.** Uji Homogenitas Sediaan Masker Gel *Peel Off* Ekstrak Etanol 70% Daun Murbei (*Morus alba L.*)

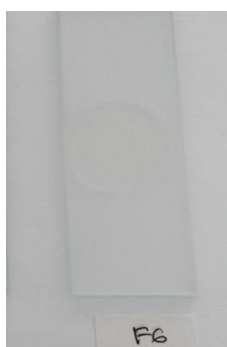
| <b>Formula</b> | <b>Konsentrasi</b> | <b>Sebelum Stabilitas</b>   | <b>Sesudah Stabilitas</b>   |
|----------------|--------------------|---|---|
| F1             | Gelatin 4%         |    |    |
| F2             | Gelatin 8%         |   |   |
| F3             | Gelatin 12%        |  |  |
| F4             | HPMC 3%            |  |  |

---

F5 HPMC 4%



F6 HPMC 5%



F7 Karbopol 0,5%



F8 Karbopol 0,75%



---

F9      Karbopol 1%



**Lampiran 11.** Uji pH Sediaan Masker Gel *Peel Off* Ekstrak Etanol 70% Daun Murbei (*Morus alba L.*)

| Formula | pH                 |                    |
|---------|--------------------|--------------------|
|         | Sebelum Stabilitas | Sesudah Stabilitas |
| F1      | 6.13 ± 0.09        | 6,18 ± 0.19        |
| F2      | 6.23 ± 0.09        | 6,37 ± 0.15        |
| F3      | 5.62 ± 0.10        | 5,96 ± 0.13        |
| F4      | 5.79 ± 0.06        | 5,76 ± 0.16        |
| F5      | 6.00 ± 0.15        | 6,01 ± 0.17        |
| F6      | 5.97 ± 0.29        | 5,92 ± 0.12        |
| F7      | 7.08 ± 0.28        | 7,04 ± 0.12        |
| F8      | 7.27 ± 0.12        | 7,31 ± 0.06        |
| F9      | 7.17 ± 0.13        | 7,23 ± 0.12        |

**Tests of Normality**

| Uji Stabilitas              | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|-----------------------------|---------------------------------|----|-------|--------------|----|------|
|                             | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| Hasil pH Sebelum Stabilitas | .249                            | 9  | .113  | .855         | 9  | .084 |
| Sesudah Stabilitas          | .209                            | 9  | .200* | .850         | 9  | .074 |

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

a. Lilliefors Significance Correction

**Test of Homogeneity of Variances**

|          |                                      | Levene Statistic | df1 | df2    | Sig. |
|----------|--------------------------------------|------------------|-----|--------|------|
| Hasil pH | Based on Mean                        | .039             | 1   | 16     | .845 |
|          | Based on Median                      | .001             | 1   | 16     | .970 |
|          | Based on Median and with adjusted df | .001             | 1   | 15.950 | .970 |
|          | Based on trimmed mean                | .041             | 1   | 16     | .843 |



### Tests of Between-Subjects Effects

Dependent Variable: Hasil pH Sebelum Stabilitas

| Source          | Type III Sum of Squares | df | Mean Square | F        | Sig. |
|-----------------|-------------------------|----|-------------|----------|------|
| Corrected Model | 3.064 <sup>a</sup>      | 4  | .766        | 18.806   | .007 |
| Intercept       | 364.301                 | 1  | 364.301     | 8944.776 | .000 |
| Basis_Gel       | 2.969                   | 2  | 1.484       | 36.445   | .003 |
| Konsentrasi     | .095                    | 2  | .048        | 1.167    | .399 |
| Error           | .163                    | 4  | .041        |          |      |
| Total           | 367.527                 | 9  |             |          |      |
| Corrected Total | 3.227                   | 8  |             |          |      |

a. R Squared = .950 (Adjusted R Squared = .899)

### 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 | F1Sebelum.stabilitas - F1Sesudah.stabilitas | -.04667            | .26160         | .15103          | -.69651                                   | .60318 | -.309  | 2  | .787            |
| Pair 2 | F2Sebelum.stabilitas - F2Sesudah.stabilitas | .14333             | .24786         | .14310          | -.75905                                   | .47238 | -1.002 | 2  | .422            |
| Pair 3 | F3Sebelum.stabilitas - F3Sesudah.stabilitas | .03000             | .05000         | .02887          | -.15421                                   | .09421 | -1.039 | 2  | .408            |
| Pair 4 | F4Sebelum.stabilitas - F4Sesudah.stabilitas | .03667             | .14572         | .08413          | -.32531                                   | .39865 | .436   | 2  | .705            |
| Pair 5 | F5Sebelum.stabilitas - F5Sesudah.stabilitas | .00667             | .31817         | .18370          | -.79705                                   | .78372 | -.036  | 2  | .974            |
| Pair 6 | F6Sebelum.stabilitas - F6Sesudah.stabilitas | .05000             | .21656         | .12503          | -.48797                                   | .58797 | .400   | 2  | .728            |
| Pair 7 | F7Sebelum.stabilitas - F7Sesudah.stabilitas | .03667             | .32593         | .18818          | -.77300                                   | .84633 | .195   | 2  | .864            |
| Pair 8 | F8Sebelum.stabilitas - F8Sesudah.stabilitas | .04000             | .12124         | .07000          | -.34119                                   | .26119 | -.571  | 2  | .625            |
| Pair 9 | F9Sebelum.stabilitas - F9Sesudah.stabilitas | .06000             | .25534         | .14742          | -.69431                                   | .57431 | -.407  | 2  | .723            |

**Lampiran 12.** Uji Daya Sebar Sediaan Masker Gel *Peel Off* Ekstrak Etanol 70%  
Daun Murbei (*Morus alba L.*)

Daya Sebar Setelah Perhitungan

| Formula | Daya Sebar (g.cm/sec) |                    |              |
|---------|-----------------------|--------------------|--------------|
|         | Sebelum Stabilitas    | Sesudah Stabilitas |              |
| F1      | 50g                   | 5,25 ± 0,58        | 5,22 ± 0,34  |
|         | 100g                  | 11,16 ± 1,75       | 10,78 ± 0,85 |
|         | 150g                  | 17,16 ± 2,89       | 16,5 ± 1,14  |
| F2      | 50g                   | 4,75 ± 0,36        | 5,05 ± 0,34  |
|         | 100g                  | 10,05 ± 0,84       | 10,44 ± 0,69 |
|         | 150g                  | 15,83 ± 1,25       | 15,92 ± 1,28 |
| F3      | 50g                   | 4,03 ± 0,21        | 4,25 ± 0,17  |
|         | 100g                  | 8,66 ± 0,66        | 9 ± 0,33     |
|         | 150g                  | 13,66 ± 1,37       | 14 ± 0,66    |
| F4      | 50g                   | 5,11 ± 0,26        | 4,83 ± 0,22  |
|         | 100g                  | 10,72 ± 0,69       | 10,11 ± 0,50 |
|         | 150g                  | 16,58 ± 1,23       | 15,5 ± 0,90  |
| F5      | 50g                   | 4,66 ± 0,46        | 4,66 ± 0,14  |
|         | 100g                  | 9,77 ± 1,27        | 9,61 ± 0,34  |
|         | 150g                  | 15,08 ± 2,42       | 14,75 ± 0,66 |
| F6      | 50g                   | 4,47 ± 0,29        | 4,56 ± 0,17  |
|         | 100g                  | 9,44 ± 0,91        | 9,38 ± 0,38  |
|         | 150g                  | 14,75 ± 1,75       | 14,5 ± 0,43  |
| F7      | 50g                   | 3,78 ± 0,41        | 4,36 ± 0,17  |
|         | 100g                  | 7,94 ± 1,07        | 9 ± 0,57     |
|         | 150g                  | 12,33 ± 1,89       | 13,75 ± 0,86 |
| F8      | 50g                   | 3,47 ± 0,31        | 4,11 ± 0,12  |
|         | 100g                  | 7,39 ± 0,82        | 8,61 ± 0,34  |
|         | 150g                  | 11,25 ± 1,52       | 13,17 ± 0,28 |
| F9      | 50g                   | 3,08 ± 0,16        | 3,47 ± 0,09  |
|         | 100g                  | 6,61 ± 0,19        | 7,44 ± 0,19  |
|         | 150g                  | 10,25 ± 0,25       | 11,58 ± 0,38 |

### Daya Sebar Sebelum Perhitungan

| Formula | Daya Sebar (cm)    |                    |
|---------|--------------------|--------------------|
|         | Sebelum Stabilitas | Sesudah Stabilitas |
| F1      | 50g                | 6,3                |
|         | 100g               | 6,7                |
|         | 150g               | 6,8                |
| F2      | 50g                | 5,4                |
|         | 100g               | 6,0                |
|         | 150g               | 6,3                |
| F3      | 50g                | 4,8                |
|         | 100g               | 5,2                |
|         | 150g               | 5,4                |
| F4      | 50g                | 6,1                |
|         | 100g               | 6,4                |
|         | 150g               | 6,6                |
| F5      | 50g                | 5,6                |
|         | 100g               | 5,8                |
|         | 150g               | 6,0                |
| F6      | 50g                | 5,3                |
|         | 100g               | 5,6                |
|         | 150g               | 5,8                |
| F7      | 50g                | 4,5                |
|         | 100g               | 4,7                |
|         | 150g               | 4,9                |
| F8      | 50g                | 4,2                |
|         | 100g               | 4,4                |
|         | 150g               | 4,5                |
| F9      | 50g                | 3,6                |
|         | 100g               | 3,9                |
|         | 150g               | 4,1                |

#### Perhitungan Daya Sebar

$$S = \frac{m \times l}{t}$$

Keterangan :

S = Daya Sebar (g.cm/sec)

M = Massa Beban (g)

L = Diameter Sebar (cm)

t = Waktu (s)

#### 1. Sebelum Stabilitas

##### a) Formula 1

1) Beban 50g

$$R1 = \frac{50 \times 5,6}{60} = 4,66 \text{ g.cm/sec}$$

$$R2 = \frac{50 \times 6.3}{60} = 5.25 \text{ g.cm/sec}$$

$$R3 = \frac{50 \times 7.0}{60} = 5.83 \text{ g.cm/sec}$$

2) Beban 100g

$$R1 = \frac{100 \times 5.7}{60} = 9.5 \text{ g.cm/sec}$$

$$R2 = \frac{100 \times 6.6}{60} = 11 \text{ g.cm/sec}$$

$$R3 = \frac{100 \times 7.8}{60} = 13 \text{ g.cm/sec}$$

3) Beban 150g

$$R1 = \frac{150 \times 5.8}{60} = 14.5 \text{ g.cm/sec}$$

$$R2 = \frac{150 \times 6.7}{60} = 16.75 \text{ g.cm/sec}$$

$$R3 = \frac{150 \times 8.1}{60} = 20.25 \text{ g.cm/sec}$$

b) Formula 2

1) Beban 50g

$$R1 = \frac{50 \times 5.2}{60} = 4.33 \text{ g.cm/sec}$$

$$R2 = \frac{50 \times 6.0}{60} = 5 \text{ g.cm/sec}$$

$$R3 = \frac{50 \times 5.9}{60} = 4.92 \text{ g.cm/sec}$$

2) Beban 100g

$$R1 = \frac{100 \times 5.5}{60} = 9.16 \text{ g.cm/sec}$$

$$R2 = \frac{100 \times 6.5}{60} = 10.83 \text{ g.cm/sec}$$

$$R3 = \frac{100 \times 6.1}{60} = 10.16 \text{ g.cm/sec}$$

3) Beban 150g

$$R1 = \frac{150 \times 5.8}{60} = 14.5 \text{ g.cm/sec}$$

$$R2 = \frac{150 \times 6.8}{60} = 17 \text{ g.cm/sec}$$

$$R3 = \frac{150 \times 6.4}{60} = 16 \text{ g.cm/sec}$$

c) Formula 3

1) Beban 50g

$$R1 = \frac{50 \times 4.8}{60} = 4 \text{ g.cm/sec}$$

$$R2 = \frac{50 \times 4.6}{60} = 3.83 \text{ g.cm/sec}$$

$$R3 = \frac{50 \times 5.1}{60} = 4.25 \text{ g.cm/sec}$$

2) Beban 100g

$$R1 = \frac{100 \times 5.2}{60} = 8.66 \text{ g.cm/sec}$$

$$R2 = \frac{100 \times 4.8}{60} = 8 \text{ g.cm/sec}$$

$$R3 = \frac{100 \times 5.6}{60} = 9.33 \text{ g.cm/sec}$$

3) Beban 150g

$$R1 = \frac{150 \times 5.5}{60} = 13.75 \text{ g.cm/sec}$$

$$R2 = \frac{150 \times 4.9}{60} = 12.25 \text{ g.cm/sec}$$

$$R3 = \frac{150 \times 6.0}{60} = 15 \text{ g.cm/sec}$$

d) Formula 4

1) Beban 50g

$$R1 = \frac{50 \times 5.9}{60} = 4.92 \text{ g.cm/sec}$$

$$R2 = \frac{50 \times 6.5}{60} = 5.42 \text{ g.cm/sec}$$

$$R3 = \frac{50 \times 6.0}{60} = 5 \text{ g.cm/sec}$$

- 2) Beban 100g  
 $R1 = \frac{100 \times 6.1}{60} = 10.16 \text{ g.cm/sec}$   
 $R2 = \frac{100 \times 6.9}{60} = 11.5 \text{ g.cm/sec}$   
 $R3 = \frac{100 \times 6.3}{60} = 10.5 \text{ g.cm/sec}$
- 3) Beban 150g  
 $R1 = \frac{150 \times 6.3}{60} = 15.75 \text{ g.cm/sec}$   
 $R2 = \frac{150 \times 7.2}{60} = 18 \text{ g.cm/sec}$   
 $R3 = \frac{150 \times 6.4}{60} = 16 \text{ g.cm/sec}$
- e) Formula 5
- 1) Beban 50g  
 $R1 = \frac{50 \times 5.1}{60} = 4.25 \text{ g.cm/sec}$   
 $R2 = \frac{50 \times 6.2}{60} = 5.16 \text{ g.cm/sec}$   
 $R3 = \frac{50 \times 5.5}{60} = 4.58 \text{ g.cm/sec}$
- 2) Beban 100g  
 $R1 = \frac{100 \times 5.2}{60} = 8.66 \text{ g.cm/sec}$   
 $R2 = \frac{100 \times 6.7}{60} = 11.16 \text{ g.cm/sec}$   
 $R3 = \frac{100 \times 5.7}{60} = 9.5 \text{ g.cm/sec}$
- 3) Beban 150g  
 $R1 = \frac{150 \times 5.2}{60} = 13 \text{ g.cm/sec}$   
 $R2 = \frac{150 \times 7.1}{60} = 17.75 \text{ g.cm/sec}$   
 $R3 = \frac{150 \times 5.8}{60} = 14.5 \text{ g.cm/sec}$
- f) Formula 6
- 1) Beban 50g  
 $R1 = \frac{50 \times 5.0}{60} = 4.16 \text{ g.cm/sec}$   
 $R2 = \frac{50 \times 5.4}{60} = 4.5 \text{ g.cm/sec}$   
 $R3 = \frac{50 \times 5.7}{60} = 4.75 \text{ g.cm/sec}$
- 2) Beban 100g  
 $R1 = \frac{100 \times 5.1}{60} = 8.5 \text{ g.cm/sec}$   
 $R2 = \frac{100 \times 5.7}{60} = 9.5 \text{ g.cm/sec}$   
 $R3 = \frac{100 \times 6.2}{60} = 10.33 \text{ g.cm/sec}$
- 3) Beban 150g  
 $R1 = \frac{150 \times 5.2}{60} = 13 \text{ g.cm/sec}$   
 $R2 = \frac{150 \times 5.9}{60} = 14.75 \text{ g.cm/sec}$   
 $R3 = \frac{150 \times 6.6}{60} = 16.5 \text{ g.cm/sec}$
- g) Formula 7
- 1) Beban 50g  
 $R1 = \frac{50 \times 5.1}{60} = 4.25 \text{ g.cm/sec}$   
 $R2 = \frac{50 \times 4.2}{60} = 3.5 \text{ g.cm/sec}$   
 $R3 = \frac{50 \times 4.3}{60} = 3.58 \text{ g.cm/sec}$
- 2) Beban 100g  
 $R1 = \frac{100 \times 5.5}{60} = 9.16 \text{ g.cm/sec}$   
 $R2 = \frac{100 \times 4.3}{60} = 7.16 \text{ g.cm/sec}$

$$R3 = \frac{100 \times 4.5}{60} = 7.5 \text{ g.cm/sec}$$

3) Beban 150g  
 $R1 = \frac{150 \times 5.8}{60} = 14.5 \text{ g.cm/sec}$

$$R2 = \frac{150 \times 4.4}{60} = 11 \text{ g.cm/sec}$$

$$R3 = \frac{150 \times 4.6}{60} = 11.5 \text{ g.cm/sec}$$

h) Formula 8

1) Beban 50g  
 $R1 = \frac{50 \times 4.6}{60} = 3.83 \text{ g.cm/sec}$

$$R2 = \frac{50 \times 3.9}{60} = 3.25 \text{ g.cm/sec}$$

$$R3 = \frac{50 \times 4.0}{60} = 3.33 \text{ g.cm/sec}$$

2) Beban 100g  
 $R1 = \frac{100 \times 5.0}{60} = 8.33 \text{ g.cm/sec}$

$$R2 = \frac{100 \times 4.2}{60} = 7 \text{ g.cm/sec}$$

$$R3 = \frac{100 \times 4.1}{60} = 6.83 \text{ g.cm/sec}$$

3) Beban 150g  
 $R1 = \frac{150 \times 5.2}{60} = 13 \text{ g.cm/sec}$

$$R2 = \frac{150 \times 4.2}{60} = 10.5 \text{ g.cm/sec}$$

$$R3 = \frac{150 \times 4.1}{60} = 10.25 \text{ g.cm/sec}$$

i) Formula 9

1) Beban 50g  
 $R1 = \frac{50 \times 3.5}{60} = 2.92 \text{ g.cm/sec}$

$$R2 = \frac{50 \times 3.9}{60} = 3.25 \text{ g.cm/sec}$$

$$R3 = \frac{50 \times 3.7}{60} = 3.08 \text{ g.cm/sec}$$

2) Beban 100g  
 $R1 = \frac{100 \times 3.9}{60} = 6.5 \text{ g.cm/sec}$

$$R2 = \frac{100 \times 4.1}{60} = 6.83 \text{ g.cm/sec}$$

$$R3 = \frac{100 \times 3.9}{60} = 6.5 \text{ g.cm/sec}$$

3) Beban 150g  
 $R1 = \frac{150 \times 4.1}{60} = 10.25 \text{ g.cm/sec}$

$$R2 = \frac{150 \times 4.2}{60} = 10.5 \text{ g.cm/sec}$$

$$R3 = \frac{150 \times 4.0}{60} = 10 \text{ g.cm/sec}$$

2. Sesudah stabilitas

a) Formula 1

1) Beban 50g  
 $R1 = \frac{50 \times 5.8}{60} = 4.83 \text{ g.cm/sec}$

$$R2 = \frac{50 \times 6.4}{60} = 5.33 \text{ g.cm/sec}$$

$$R3 = \frac{50 \times 6.6}{60} = 5.5 \text{ g.cm/sec}$$

2) Beban 100g  
 $R1 = \frac{100 \times 5.9}{60} = 9.83 \text{ g.cm/sec}$

$$R2 = \frac{100 \times 6.6}{60} = 11 \text{ g.cm/sec}$$

$$R3 = \frac{100 \times 6.9}{60} = 11.5 \text{ g.cm/sec}$$

- 3) Beban 150g  
 $R1 = \frac{150 \times 6.1}{60} = 15.25 \text{ g.cm/sec}$   
 $R2 = \frac{150 \times 6.7}{60} = 16.75 \text{ g.cm/sec}$   
 $R3 = \frac{150 \times 7.0}{60} = 17.5 \text{ g.cm/sec}$
- b) Formula 2
- 1) Beban 50g  
 $R1 = \frac{50 \times 5.6}{60} = 4.66 \text{ g.cm/sec}$   
 $R2 = \frac{50 \times 6.3}{60} = 5.25 \text{ g.cm/sec}$   
 $R3 = \frac{50 \times 6.3}{60} = 5.25 \text{ g.cm/sec}$
- 2) Beban 100g  
 $R1 = \frac{100 \times 5.8}{60} = 9.66 \text{ g.cm/sec}$   
 $R2 = \frac{100 \times 6.6}{60} = 11 \text{ g.cm/sec}$   
 $R3 = \frac{100 \times 6.4}{60} = 10.66 \text{ g.cm/sec}$
- 3) Beban 150g  
 $R1 = \frac{150 \times 5.8}{60} = 14.5 \text{ g.cm/sec}$   
 $R2 = \frac{150 \times 6.8}{60} = 17 \text{ g.cm/sec}$   
 $R3 = \frac{150 \times 6.5}{60} = 16.25 \text{ g.cm/sec}$
- c) Formula 3
- 1) Beban 50g  
 $R1 = \frac{50 \times 5.1}{60} = 4.25 \text{ g.cm/sec}$   
 $R2 = \frac{50 \times 4.9}{60} = 4.08 \text{ g.cm/sec}$   
 $R3 = \frac{50 \times 5.3}{60} = 4.42 \text{ g.cm/sec}$
- 2) Beban 100g  
 $R1 = \frac{100 \times 5.4}{60} = 9 \text{ g.cm/sec}$   
 $R2 = \frac{100 \times 5.2}{60} = 8.66 \text{ g.cm/sec}$   
 $R3 = \frac{100 \times 5.6}{60} = 9.33 \text{ g.cm/sec}$
- 3) Beban 150g  
 $R1 = \frac{150 \times 5.5}{60} = 13.75 \text{ g.cm/sec}$   
 $R2 = \frac{150 \times 5.4}{60} = 13.5 \text{ g.cm/sec}$   
 $R3 = \frac{150 \times 5.9}{60} = 14.75 \text{ g.cm/sec}$
- d) Formula 4
- 1) Beban 50g  
 $R1 = \frac{50 \times 5.5}{60} = 4.58 \text{ g.cm/sec}$   
 $R2 = \frac{50 \times 6.0}{60} = 5 \text{ g.cm/sec}$   
 $R3 = \frac{50 \times 5.9}{60} = 4.92 \text{ g.cm/sec}$
- 2) Beban 100g  
 $R1 = \frac{100 \times 5.8}{60} = 9.66 \text{ g.cm/sec}$   
 $R2 = \frac{100 \times 6.4}{60} = 10.66 \text{ g.cm/sec}$   
 $R3 = \frac{100 \times 6.0}{60} = 10 \text{ g.cm/sec}$
- 3) Beban 150g  
 $R1 = \frac{150 \times 5.9}{60} = 14.75 \text{ g.cm/sec}$   
 $R2 = \frac{150 \times 6.6}{60} = 16.5 \text{ g.cm/sec}$



$$R3 = \frac{150 \times 6.1}{60} = 15.25 \text{ g.cm/sec}$$

e) Formula 5

1) Beban 50g

$$R1 = \frac{50 \times 5.5}{60} = 4.58 \text{ g.cm/sec}$$

$$R2 = \frac{50 \times 5.5}{60} = 4.58 \text{ g.cm/sec}$$

$$R3 = \frac{50 \times 5.8}{60} = 4.83 \text{ g.cm/sec}$$

2) Beban 100g

$$R1 = \frac{100 \times 5.6}{60} = 9.33 \text{ g.cm/sec}$$

$$R2 = \frac{100 \times 5.7}{60} = 9.5 \text{ g.cm/sec}$$

$$R3 = \frac{100 \times 6.0}{60} = 10 \text{ g.cm/sec}$$

3) Beban 150g

$$R1 = \frac{150 \times 5.7}{60} = 14.25 \text{ g.cm/sec}$$

$$R2 = \frac{150 \times 5.8}{60} = 14.5 \text{ g.cm/sec}$$

$$R3 = \frac{150 \times 6.2}{60} = 15.5 \text{ g.cm/sec}$$

f) Formula 6

1) Beban 50g

$$R1 = \frac{50 \times 5.3}{60} = 4.42 \text{ g.cm/sec}$$

$$R2 = \frac{50 \times 5.7}{60} = 4.75 \text{ g.cm/sec}$$

$$R3 = \frac{50 \times 5.4}{60} = 4.5 \text{ g.cm/sec}$$

2) Beban 100g

$$R1 = \frac{100 \times 5.5}{60} = 9.16 \text{ g.cm/sec}$$

$$R2 = \frac{100 \times 5.9}{60} = 9.83 \text{ g.cm/sec}$$

$$R3 = \frac{100 \times 5.5}{60} = 9.16 \text{ g.cm/sec}$$

3) Beban 150g

$$R1 = \frac{150 \times 5.7}{60} = 14.25 \text{ g.cm/sec}$$

$$R2 = \frac{150 \times 6.0}{60} = 15 \text{ g.cm/sec}$$

$$R3 = \frac{150 \times 5.7}{60} = 14.25 \text{ g.cm/sec}$$

g) Formula 7

1) Beban 50g

$$R1 = \frac{50 \times 5.4}{60} = 4.5 \text{ g.cm/sec}$$

$$R2 = \frac{50 \times 5.0}{60} = 4.16 \text{ g.cm/sec}$$

$$R3 = \frac{50 \times 5.3}{60} = 4.42 \text{ g.cm/sec}$$

2) Beban 100g

$$R1 = \frac{100 \times 5.6}{60} = 9.33 \text{ g.cm/sec}$$

$$R2 = \frac{100 \times 5.0}{60} = 8.33 \text{ g.cm/sec}$$

$$R3 = \frac{100 \times 5.6}{60} = 9.33 \text{ g.cm/sec}$$

3) Beban 150g

$$R1 = \frac{150 \times 5.7}{60} = 14.25 \text{ g.cm/sec}$$

$$R2 = \frac{150 \times 5.1}{60} = 12.75 \text{ g.cm/sec}$$

$$R3 = \frac{150 \times 5.7}{60} = 14.25 \text{ g.cm/sec}$$

h) Formula 8

1) Beban 50g

$$R1 = \frac{50 \times 5.1}{60} = 4.25 \text{ g.cm/sec}$$

$$R2 = \frac{50 \times 4.9}{60} = 4.08 \text{ g.cm/sec}$$

$$R3 = \frac{50 \times 4.8}{60} = 4 \text{ g.cm/sec}$$

2) Beban 100g

$$R1 = \frac{100 \times 5.4}{60} = 9 \text{ g.cm/sec}$$

$$R2 = \frac{100 \times 5.1}{60} = 8.5 \text{ g.cm/sec}$$

$$R3 = \frac{100 \times 5.0}{60} = 8.33 \text{ g.cm/sec}$$

3) Beban 150g

$$R1 = \frac{150 \times 5.4}{60} = 13.5 \text{ g.cm/sec}$$

$$R2 = \frac{150 \times 5.2}{60} = 13 \text{ g.cm/sec}$$

$$R3 = \frac{150 \times 5.2}{60} = 13 \text{ g.cm/sec}$$

i) Formula 9

1) Beban 50g

$$R1 = \frac{50 \times 4.3}{60} = 3.58 \text{ g.cm/sec}$$

$$R2 = \frac{50 \times 4.1}{60} = 3.42 \text{ g.cm/sec}$$

$$R3 = \frac{50 \times 4.1}{60} = 3.42 \text{ g.cm/sec}$$

2) Beban 100g

$$R1 = \frac{100 \times 4.6}{60} = 7.66 \text{ g.cm/sec}$$

$$R2 = \frac{100 \times 4.4}{60} = 7.33 \text{ g.cm/sec}$$

$$R3 = \frac{100 \times 4.4}{60} = 7.33 \text{ g.cm/sec}$$

3) Beban 150g

$$R1 = \frac{150 \times 4.8}{60} = 12 \text{ g.cm/sec}$$

$$R2 = \frac{150 \times 4.5}{60} = 11.25 \text{ g.cm/sec}$$

$$R3 = \frac{150 \times 4.6}{60} = 11.5 \text{ g.cm/sec}$$

### Tests of Normality

|                    |            | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|--------------------|------------|---------------------------------|----|-------|--------------|----|------|
|                    |            | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| Daya Sebar<br>50gr | Sebelum    | .152                            | 9  | .200* | .957         | 9  | .769 |
|                    | Stabilitas |                                 |    |       |              |    |      |
|                    | Sesudah    | .120                            | 9  | .200* | .970         | 9  | .892 |
|                    | Stabilitas |                                 |    |       |              |    |      |

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

a. Lilliefors Significance Correction

### Test of Homogeneity of Variances

|                 |   | Levene<br>Statistic | df1 | df2    | Sig. |
|-----------------|---|---------------------|-----|--------|------|
| Daya Sebar 50gr | Based on Mean                           | 1.948               | 1   | 16     | .182 |
|                 | Based on Median                         | 1.280               | 1   | 16     | .275 |
|                 | Based on Median and<br>with adjusted df | 1.280               | 1   | 14.982 | .276 |
|                 | Based on trimmed mean                   | 1.917               | 1   | 16     | .185 |

### Tests of Between-Subjects Effects

Dependent Variable: Daya Sebar 50gr Sebelum Stabilitas

| Source          | Type III Sum of<br>Squares | df | Mean Square | F        | Sig. |
|-----------------|----------------------------|----|-------------|----------|------|
| Corrected Model | 4.317 <sup>a</sup>         | 4  | 1.079       | 35.373   | .002 |
| Intercept       | 165.551                    | 1  | 165.551     | 5425.929 | .000 |
| Basis_Gel       | 3.225                      | 2  | 1.612       | 52.845   | .001 |
| Konsentrasi     | 1.092                      | 2  | .546        | 17.901   | .010 |
| Error           | .122                       | 4  | .031        |          |      |
| Total           | 169.990                    | 9  |             |          |      |
| Corrected Total | 4.439                      | 8  |             |          |      |

a. R Squared = .973 (Adjusted R Squared = .945)

### Paired Samples Test

|        |   | Paired Differences |                |                 |  | t       | df | Sig. (2-tailed) |
|--------|---|--------------------|----------------|-----------------|--|---------|----|-----------------|
|        |   | Mean               | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference<br>Lower Upper |         |    |                 |
| Pair 1 | F1Sebelum.stabilitas - F1Sesudah.stabilitas | .02667             | .26652         | .15388          | -.63541 .68874   | .173    | 2  | .878            |
| Pair 2 | F2Sebelum.stabilitas - F2Sesudah.stabilitas | -.30333            | .04619         | .02667          | -.41807 -.18860  | -11.375 | 2  | .008            |
| Pair 3 | F3Sebelum.stabilitas - F3Sesudah.stabilitas | -.22333            | .04619         | .02667          | -.33807 -.10860  | -8.375  | 2  | .014            |
| Pair 4 | F4Sebelum.stabilitas - F4Sesudah.stabilitas | .28000             | .17776         | .10263          | -.16159 .72159   | 2.728   | 2  | .112            |
| Pair 5 | F5Sebelum.stabilitas - F5Sesudah.stabilitas | .00000             | .50388         | .29092          | -1.25172 1.25172   | .000    | 2  | 1.000           |
| Pair 6 | F6Sebelum.stabilitas - F6Sesudah.stabilitas | -.08667            | .29160         | .16836          | -.81105 .63772   | -.515   | 2  | .658            |
| Pair 7 | F7Sebelum.stabilitas - F7Sesudah.stabilitas | -.58333            | .30238         | .17458          | -1.33449 .16782  | -3.341  | 2  | .079            |
| Pair 8 | F8Sebelum.stabilitas - F8Sesudah.stabilitas | -.64000            | .20664         | .11930          | -1.15332 -.12668   | -5.364  | 2  | .033            |
| Pair 9 | F9Sebelum.stabilitas - F9Sesudah.stabilitas | -.39000            | .24880         | .14364          | -1.00805 .22805  | -2.715  | 2  | .113            |

### Tests of Normality

|                     | Uji Stabilitas        | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|---------------------|-----------------------|---------------------------------|----|-------|--------------|----|------|
|                     |                       | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| Daya Sebar<br>100gr | Sebelum<br>Stabilitas | .147                            | 9  | .200* | .965         | 9  | .851 |
|                     | Sesudah<br>Stabilitas | .134                            | 9  | .200* | .968         | 9  | .881 |

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

a. Lilliefors Significance Correction

### Test of Homogeneity of Variances

|                  |   | Levene Statistic | df1 | df2    | Sig. |
|------------------|---|------------------|-----|--------|------|
| Daya Sebar 100gr | Based on Mean                           | 2.487            | 1   | 16     | .134 |
|                  | Based on Median                         | 1.659            | 1   | 16     | .216 |
|                  | Based on Median and with<br>adjusted df | 1.659            | 1   | 14.166 | .218 |
|                  | Based on trimmed mean                   | 2.430            | 1   | 16     | .139 |

### Tests of Between-Subjects Effects

Dependent Variable: Daya Sebar 100gr Sebelum Stabilitas

| Source          | Type III Sum of Squares | df | Mean Square | F        | Sig. |
|-----------------|-------------------------|----|-------------|----------|------|
| Corrected Model | 18.434 <sup>a</sup>     | 4  | 4.608       | 32.805   | .003 |
| Intercept       | 742.381                 | 1  | 742.381     | 5284.685 | .000 |
| Basis_Gel       | 14.081                  | 2  | 7.040       | 50.118   | .001 |
| Konsentrasi     | 4.353                   | 2  | 2.176       | 15.492   | .013 |
| Error           | .562                    | 4  | .140        |          |      |
| Total           | 761.376                 | 9  |             |          |      |
| Corrected Total | 18.996                  | 8  |             |          |      |

a. R Squared = .970 (Adjusted R Squared = .941)

### Paired Samples Test

|        |   | Paired Differences |                |                 |  | t        | df     | Sig. (2-tailed) |      |
|--------|---|--------------------|----------------|-----------------|--|----------|--------|-----------------|------|
|        |   | Mean               | Std. Deviation | Std. Error Mean | 95% Confidence Interval of the Difference<br>Lower Upper |          |        |                 |      |
| Pair 1 | F1Sebelum.stabilitas - F1Sesudah.stabilitas | .39000             | .97535         | .56312          | -2.03289   | 2.81289  | .693   | 2               | .560 |
| Pair 2 | F2Sebelum.stabilitas - F2Sesudah.stabilitas | -.39000            | .19053         | .11000          | -.86329  | .08329   | -3.545 | 2               | .071 |
| Pair 3 | F3Sebelum.stabilitas - F3Sesudah.stabilitas | -.33333            | .33005         | .19055          | 1.15322  | .48656   | -1.749 | 2               | .222 |
| Pair 4 | F4Sebelum.stabilitas - F4Sesudah.stabilitas | .61333             | .19630         | .11333          | .12570   | 1.10097  | 5.412  | 2               | .032 |
| Pair 5 | F5Sebelum.stabilitas - F5Sesudah.stabilitas | .16333             | 1.29894        | .74994          | 3.06340  | -3.39007 | .218   | 2               | .848 |
| Pair 6 | F6Sebelum.stabilitas - F6Sesudah.stabilitas | .06000             | .97535         | .56312          | 2.36289  | -2.48289 | .107   | 2               | .925 |
| Pair 7 | F7Sebelum.stabilitas - F7Sesudah.stabilitas | -1.05667           | .83578         | .48254          | 3.13287  | -1.01953 | -2.190 | 2               | .160 |
| Pair 8 | F8Sebelum.stabilitas - F8Sesudah.stabilitas | -1.22333           | .47920         | .27667          | 2.41373  | -.03293  | -4.422 | 2               | .048 |
| Pair 9 | F9Sebelum.stabilitas - F9Sesudah.stabilitas | -.83000            | .33000         | .19053          | 1.64977  | -.01023  | -4.356 | 2               | .049 |

### Tests of Normality

|                     | Uji Stabilitas        | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|---------------------|-----------------------|---------------------------------|----|-------|--------------|----|------|
|                     |                       | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| Daya Sebar<br>150gr | Sebelum<br>Stabilitas | .162                            | 9  | .200* | .951         | 9  | .698 |
|                     | Sesudah<br>Stabilitas | .109                            | 9  | .200* | .977         | 9  | .946 |

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

a. Lilliefors Significance Correction

### Test of Homogeneity of Variances

|                  |   | Levene    |     |        |      |
|------------------|---|-----------|-----|--------|------|
|                  |   | Statistic | df1 | df2    | Sig. |
| Daya Sebar 150gr | Based on Mean                           | 2.924     | 1   | 16     | .107 |
|                  | Based on Median                         | 1.813     | 1   | 16     | .197 |
|                  | Based on Median and<br>with adjusted df | 1.813     | 1   | 13.395 | .200 |
|                  | Based on trimmed mean                   | 2.873     | 1   | 16     | .109 |

### Tests of Between-Subjects Effects

Dependent Variable: Daya Sebar 150gr Sebelum Stabilitas

| Source          | Type III Sum of Squares | df | Mean Square | F        | Sig. |
|-----------------|-------------------------|----|-------------|----------|------|
| Corrected Model | 45.013 <sup>a</sup>     | 4  | 11.253      | 39.183   | .002 |
| Intercept       | 1789.008                | 1  | 1789.008    | 6229.257 | .000 |
| Basis_Gel       | 35.852                  | 2  | 17.926      | 62.417   | .001 |
| Konsentrasi     | 9.161                   | 2  | 4.580       | 15.949   | .012 |
| Error           | 1.149                   | 4  | .287        |          |      |
| Total           | 1835.169                | 9  |             |          |      |
| Corrected Total | 46.161                  | 8  |             |          |      |

a. R Squared = .975 (Adjusted R Squared = .950)

### 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 | F1Sebelum.stabilitas - F1Sesudah.stabilitas | .66667             | 1.84278        | 1.06393         | -3.91105                                  | 5.24438  | .627   | 2               | .595  |
| Pair 2 | F2Sebelum.stabilitas - F2Sesudah.stabilitas | -.08333            | .14434         | .08333          | -.44189                                   | .27522   | -1.000 | 2               | .423  |
| Pair 3 | F3Sebelum.stabilitas - F3Sesudah.stabilitas | -.33333            | .80364         | .46398          | 2.32968                                   | -1.66301 | -.718  | 2               | .547  |
| Pair 4 | F4Sebelum.stabilitas - F4Sesudah.stabilitas | 1.08333            | .38188         | .22048          | .13469                                    | 2.03198  | 4.914  | 2               | .039  |
| Pair 5 | F5Sebelum.stabilitas - F5Sesudah.stabilitas | .33333             | 2.52900        | 1.46012         | 5.94905                                   | -6.61571 | .228   | 2               | .841  |
| Pair 6 | F6Sebelum.stabilitas - F6Sesudah.stabilitas | .25000             | 1.80278        | 1.04083         | 4.22834                                   | -4.72834 | .240   | 2               | .833  |
| Pair 7 | F7Sebelum.stabilitas - F7Sesudah.stabilitas | -1.41667           | 1.52753        | .88192          | 5.21125                                   | -2.37792 | 1.606  | 2               | .249  |
| Pair 8 | F8Sebelum.stabilitas - F8Sesudah.stabilitas | -1.91667           | 1.23322        | .71200          | 4.98016                                   | -1.14682 | 2.692  | 2               | .115  |
| Pair 9 | F9Sebelum.stabilitas - F9Sesudah.stabilitas | -1.33333           | .52042         | .30046          | 2.62612                                   | -.04055  | 4.438  | 2               | .047  |



**Lampiran 13.** Uji Daya Lekat Sediaan Masker Gel *Peel Off* Ekstrak Etanol 70% Daun Murbei (*Morus alba L.*)

| Formula | Daya Lekat (Detik) |                    |
|---------|--------------------|--------------------|
|         | Sebelum Stabilitas | Sesudah Stabilitas |
| F1      | 10,36 ± 2,41       | 10,43 ± 1,63       |
| F2      | 18,18 ± 3,81       | 14,35 ± 2,08       |
| F3      | 25,00 ± 4,08       | 22,21 ± 5,41       |
| F4      | 9,03 ± 3,60        | 10,67 ± 3,38       |
| F5      | 11,59 ± 1,18       | 12,43 ± 1,75       |
| F6      | 22,28 ± 4,03       | 17,76 ± 1,56       |
| F7      | 9,84 ± 0,30        | 7,55 ± 1,29        |
| F8      | 20,05 ± 5,69       | 14,76 ± 4,06       |
| F9      | 37,76 ± 2,30       | 31,92 ± 5,25       |

| Tests of Normality |                    |                                 |    |       |              |    |      |
|--------------------|--------------------|---------------------------------|----|-------|--------------|----|------|
|                    |                    | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|                    | Uji Stabilitas     | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| Hasil Daya Lekat   | Sebelum Stabilitas | .204                            | 9  | .200* | .882         | 9  | .166 |
|                    | Sesudah Stabilitas | .222                            | 9  | .200* | .885         | 9  | .178 |

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

a. Lilliefors Significance Correction

| Test of Homogeneity of Variances |                                      |           |     |        |      |
|----------------------------------|--------------------------------------|-----------|-----|--------|------|
|                                  |                                      | Levene    |     |        |      |
|                                  |                                      | Statistic | df1 | df2    | Sig. |
| Hasil Daya Lekat                 | Based on Mean                        | .489      | 1   | 16     | .494 |
|                                  | Based on Median                      | .648      | 1   | 16     | .433 |
|                                  | Based on Median and with adjusted df | .648      | 1   | 15.976 | .433 |
|                                  | Based on trimmed mean                | .593      | 1   | 16     | .452 |

### Tests of Between-Subjects Effects

Dependent Variable: Daya Lekat Sebelum Stabilitas

| Source          | Type III Sum of Squares | df | Mean Square | F       | Sig. |
|-----------------|-------------------------|----|-------------|---------|------|
| Corrected Model | 633.780 <sup>a</sup>    | 4  | 158.445     | 8.536   | .031 |
| Intercept       | 2991.725                | 1  | 2991.725    | 161.170 | .000 |
| Basis_Gel       | 102.763                 | 2  | 51.381      | 2.768   | .176 |
| Konsentrasi     | 531.017                 | 2  | 265.508     | 14.303  | .015 |
| Error           | 74.250                  | 4  | 18.563      |         |      |
| Total           | 3699.755                | 9  |             |         |      |
| Corrected Total | 708.030                 | 8  |             |         |      |

a. R Squared = .895 (Adjusted R Squared = .790)

### Paired Samples Test

|        |   | Paired Differences |                   |                       |   |          | t     | df | Sig.<br>(2-<br>tailed) |
|--------|---|--------------------|-------------------|-----------------------|---|----------|-------|----|------------------------|
|        |   | Mean               | Std.<br>Deviation | Std.<br>Error<br>Mean | 95% Confidence<br>Interval of the<br>Difference |          |       |    |                        |
|        |   |                    |                   |                       | Lower   | Upper    |       |    |                        |
| Pair 1 | F1Sebelum.stabilitas<br>-<br>F1Sesudah.stabilitas | -.07333            | .77951            | .45005                | -   | 1.86307  | -.163 | 2  | .886                   |
|        |   |                    |                   |                       | 2.00974   |          |       |    |                        |
| Pair 2 | F2Sebelum.stabilitas<br>-<br>F2Sesudah.stabilitas | 3.83000            | 1.82781           | 1.05529               | -.71054   | 8.37054  | 3.629 | 2  | .068                   |
| Pair 3 | F3Sebelum.stabilitas<br>-<br>F3Sesudah.stabilitas | 2.79333            | 1.40233           | .80964                | -.69025   | 6.27692  | 3.450 | 2  | .075                   |
| Pair 4 | F4Sebelum.stabilitas<br>-<br>F4Sesudah.stabilitas | -<br>1.63667       | .43753            | .25261                | -   | -.54978  | -     | 2  | .023                   |
|        |   |                    |                   |                       | 2.72355   |          | 6.479 |    |                        |
| Pair 5 | F5Sebelum.stabilitas<br>-<br>F5Sesudah.stabilitas | -.82667            | .76788            | .44333                | -   | 1.08084  | -     | 2  | .203                   |
|        |   |                    |                   |                       | 2.73418   |          | 1.865 |    |                        |
| Pair 6 | F6Sebelum.stabilitas<br>-<br>F6Sesudah.stabilitas | 4.52333            | 2.55799           | 1.47686               | -   | 10.87774 | 3.063 | 2  | .092                   |
|        |   |                    |                   |                       | 1.83108   |          |       |    |                        |
| Pair 7 | F7Sebelum.stabilitas<br>-<br>F7Sesudah.stabilitas | 2.29667            | .99007            | .57162                | -.16280   | 4.75613  | 4.018 | 2  | .057                   |
| Pair 8 | F8Sebelum.stabilitas<br>-<br>F8Sesudah.stabilitas | 5.30000            | 1.80144           | 1.04006               | .82497  | 9.77503  | 5.096 | 2  | .036                   |
| Pair 9 | F9Sebelum.stabilitas<br>-<br>F9Sesudah.stabilitas | 5.83667            | 3.01099           | 1.73839               | -   | 13.31637 | 3.358 | 2  | .078                   |
|        |   |                    |                   |                       | 1.64304   |          |       |    |                        |

**Lampiran 14.** Uji Viskositas Sediaan Masker Gel *Peel Off* Ekstrak Etanol 70% Daun Murbei (*Morus alba L.*)

| Formula | Viskositas (mPa.s) |                    |
|---------|--------------------|--------------------|
|         | Sebelum Stabilitas | Sesudah Stabilitas |
| F1      | 3.666 ± 2081,66    | 4.666 ± 1154,70    |
| F2      | 44.333 ± 12741     | 32.000 ± 7211,10   |
| F3      | 110.000 ± 18248,28 | 56.000 ± 6928,20   |
| F4      | 11.333 ± 1527,52   | 16.666 ± 7211,10   |
| F5      | 27.333 ± 3785,93   | 29.000 ± 1000      |
| F6      | 49.666 ± 14571,66  | 44.333 ± 5131,60   |
| F7      | 162.333 ± 40278,19 | 110.666 ± 21197,48 |
| F8      | *                  | 134.000 ± 9165,15  |
| F9      | *                  | *                  |

Keterangan = \*hasil viskositas melebihi ambang batas (>200.000)

Perhitungan Viskositas

Viskositas = Skala x Faktor

Sebelum Stabilitas

1. Sebelum Stabilitas
  - a) Formula 1
    - R1 = 3 x 2.000 = 6.000 mPa.s
    - R2 = 1,5 x 2.000 = 3.000 mPa.s
    - R3 = 1 x 2.000 = 2.000 mPa.s
  - b) Formula 2
    - R1 = 29,5 x 2.000 = 59.000 mPa.s
    - R2 = 18 x 2.000 = 36.000 mPa.s
    - R3 = 19 x 2.000 = 38.000 mPa.s
  - c) Formula 3
    - R1 = 59,5 x 2.000 = 119.000 mPa.s
    - R2 = 61 x 2.000 = 122.000 mPa.s
    - R3 = 44,5 x 2.000 = 89.000 mPa.s
  - d) Formula 4
    - R1 = 6,5 x 2.000 = 13.000 mPa.s
    - R2 = 5 x 2.000 = 10.000 mPa.s
    - R3 = 5,5 x 2.000 = 11.000 mPa.s
  - e) Formula 5
    - R1 = 15 x 2.000 = 30.000 mPa.s
    - R2 = 11,5 x 2.000 = 23.000 mPa.s
    - R3 = 14,5 x 2.000 = 29.000 mPa.s
  - f) Formula 6
    - R1 = 32,5 x 2.000 = 65.000 mPa.s
    - R2 = 24 x 2.000 = 48.000 mPa.s
    - R3 = 18 x 2.000 = 36.000 mPa.s
  - g) Formula 7
    - R1 = 58,5 x 2.000 = 117.000 mPa.s
    - R2 = 97 x 2.000 = 194.000 mPa.s
    - R3 = 88 x 2.000 = 176.000 mPa.s
2. Sesudah Stabilitas
  - a) Formula 1
    - R1 = 3 x 2.000 = 6.000 mPa.s

- R2 = 2 x 2.000 = 4.000 mPa.s  
 R3 = 2 x 2.000 = 4.000 mPa.s
- b) Formula 2  
 R1 = 20 x 2.000 = 40.000 mPa.s  
 R2 = 13 x 2.000 = 26.000 mPa.s  
 R3 = 15 x 2.000 = 30.000 mPa.s
- c) Formula 3  
 R1 = 30 x 2.000 = 60.000 mPa.s  
 R2 = 30 x 2.000 = 60.000 mPa.s  
 R3 = 24 x 2.000 = 48.000 mPa.s
- d) Formula 4  
 R1 = 14 x 2.000 = 28.000 mPa.s  
 R2 = 7 x 2.000 = 14.000 mPa.s  
 R3 = 9 x 2.000 = 18.000 mPa.s
- e) Formula 5  
 R1 = 14 x 2.000 = 28.000 mPa.s  
 R2 = 15 x 2.000 = 30.000 mPa.s  
 R3 = 14,5 x 2.000 = 29.000 mPa.s
- f) Formula 6  
 R1 = 25 x 2.000 = 50.000 mPa.s  
 R2 = 20 x 2.000 = 40.000 mPa.s  
 R3 = 21,5 x 2.000 = 43.000 mPa.s
- g) Formula 7  
 R1 = 44 x 2.000 = 88.000 mPa.s  
 R2 = 65 x 2.000 = 130.000 mPa.s  
 R3 = 57 x 2.000 = 114.000 mPa.s
- h) Formula 8  
 R1 = 63 x 2.000 = 126.000 mPa.s  
 R2 = 66 x 2.000 = 132.000 mPa.s  
 R3 = 72 x 2.000 = 144.000 mPa.s

### Tests of Normality

|                |            | Kolmogorov-Smirnov <sup>a</sup> |    |      | Shapiro-Wilk |    |      |
|----------------|------------|---------------------------------|----|------|--------------|----|------|
| Uji Stabilitas |            | Statistic                       | df | Sig. | Statistic    | df | Sig. |
| Hasil          | Sebelum    | .251                            | 9  | .109 | .889         | 9  | .195 |
| Viskositas     | Stabilitas |                                 |    |      |              |    |      |
|                | Sesudah    | .250                            | 9  | .110 | .872         | 9  | .128 |
|                | Stabilitas |                                 |    |      |              |    |      |

a. Lilliefors Significance Correction

### Test of Homogeneity of Variances

|                  |                                      | Levene    |     |        |      |
|------------------|--------------------------------------|-----------|-----|--------|------|
|                  |                                      | Statistic | df1 | df2    | Sig. |
| Hasil Viskositas | Based on Mean                        | 1.800     | 1   | 16     | .198 |
|                  | Based on Median                      | .719      | 1   | 16     | .409 |
|                  | Based on Median and with adjusted df | .719      | 1   | 14.583 | .410 |
|                  | Based on trimmed mean                | 1.776     | 1   | 16     | .201 |

### Tests of Between-Subjects Effects

Dependent Variable: Viskositas Sebelum Stabilitas

| Source          | Type III Sum of Squares          | df | Mean Square         | F       | Sig. |
|-----------------|----------------------------------|----|---------------------|---------|------|
| Corrected Model | 63085768173.1<br>11 <sup>a</sup> | 4  | 15771442043.2<br>78 | 49.883  | .001 |
| Intercept       | 81922651655.1<br>11              | 1  | 81922651655.1<br>11 | 259.110 | .000 |
| Basis_Gel       | 53983324716.2<br>22              | 2  | 26991662358.1<br>11 | 85.371  | .001 |
| Konsentrasi     | 9102443456.88<br>9               | 2  | 4551221728.44<br>4  | 14.395  | .015 |
| Error           | 1264678839.77<br>8               | 4  | 316169709.944       |         |      |
| Total           | 146273098668.<br>000             | 9  |                     |         |      |
| Corrected Total | 64350447012.8<br>89              | 8  |                     |         |      |

a. R Squared = .980 (Adjusted R Squared = .961)

### Paired Samples Test

|                 |   | Paired Differences |                   |                       |   |            | t      | df | Sig.<br>(2-tailed) |
|-----------------|---|--------------------|-------------------|-----------------------|---|------------|--------|----|--------------------|
|                 |   | Mean               | Std.<br>Deviation | Std.<br>Error<br>Mean | 95% Confidence<br>Interval of the<br>Difference |            |        |    |                    |
|                 |   |                    |                   |                       | Lower   | Upper      |        |    |                    |
| Paired Sample 1 | F1Sebelum.stabilitas - F1Sesudah.stabilitas | -1000.000          | 1000.000          | 577.350               | -3484.138                                       | 1484.138   | -1.732 | 2  | .225               |
| Paired Sample 2 | F2Sebelum.stabilitas - F2Sesudah.stabilitas | 12333.333          | 5859.465          | 3382.964              | -2222.385                                       | 26889.052  | 3.646  | 2  | .068               |
| Paired Sample 3 | F3Sebelum.stabilitas - F3Sesudah.stabilitas | 54000.000          | 11357.817         | 6557.439              | 25785.619                                       | 82214.381  | 8.235  | 2  | .014               |
| Paired Sample 4 | F4Sebelum.stabilitas - F4Sesudah.stabilitas | -8666.667          | 5686.241          | 3282.953              | -22792.072                                      | 5458.738   | -2.640 | 2  | .119               |
| Paired Sample 5 | F5Sebelum.stabilitas - F5Sesudah.stabilitas | -1666.667          | 4725.816          | 2728.451              | -13406.243                                      | 10072.910  | -.611  | 2  | .603               |
| Paired Sample 6 | F6Sebelum.stabilitas - F6Sesudah.stabilitas | 5333.333           | 11239.810         | 6489.307              | -22587.903                                      | 33254.570  | .822   | 2  | .498               |
| Paired Sample 7 | F7Sebelum.stabilitas - F7Sesudah.stabilitas | 51666.667          | 19655.364         | 11348.030             | 2840.036  | 100493.298 | 4.553  | 2  | .045               |

**Lampiran 15.** Uji Waktu Mengering Sediaan Masker Gel *Peel Off* Ekstrak Etanol 70% Daun Murbei (*Morus alba L.*)

| Formula | Waktu Mengering (Menit) |                    |
|---------|-------------------------|--------------------|
|         | Sebelum Stabilitas      | Sesudah Stabilitas |
| F1      | 27,07 ± 0,59            | 28,33 ± 1,06       |
| F2      | 25,53 ± 2,46            | 26,14 ± 2,12       |
| F3      | 18,50 ± 1,21            | 21,27 ± 1,00       |
| F4      | 31,38 ± 3,62            | 30,84 ± 2,34       |
| F5      | 26,93 ± 0,38            | 26,52 ± 1,05       |
| F6      | 24,10 ± 1,46            | 25,05 ± 1,65       |
| F7      | 25,17 ± 2,48            | 28,77 ± 1,37       |
| F8      | 22,46 ± 1,07            | 26,01 ± 2,03       |
| F9      | 16,27 ± 1,97            | 19,52 ± 2,51       |

| Tests of Normality |                    |                                 |    |       |              |    |      |
|--------------------|--------------------|---------------------------------|----|-------|--------------|----|------|
|                    |                    | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|                    | Uji Stabilitas     | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| Waktu Mengering    | Sebelum Stabilitas | .162                            | 9  | .200* | .957         | 9  | .771 |
|                    | Sesudah Stabilitas | .191                            | 9  | .200* | .942         | 9  | .605 |

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

a. Lilliefors Significance Correction

| Test of Homogeneity of Variances |                                      |           |     |        |      |
|----------------------------------|--------------------------------------|-----------|-----|--------|------|
|                                  |                                      | Levene    |     |        |      |
|                                  |                                      | Statistic | df1 | df2    | Sig. |
| Waktu Mengering                  | Based on Mean                        | .448      | 1   | 16     | .513 |
|                                  | Based on Median                      | .342      | 1   | 16     | .567 |
|                                  | Based on Median and with adjusted df | .342      | 1   | 14.890 | .567 |
|                                  | Based on trimmed mean                | .464      | 1   | 16     | .505 |



### Tests of Between-Subjects Effects

Dependent Variable: Waktu Mengering Sebelum Stabilitas

| Source          | Type III Sum of Squares | df | Mean Square | F        | Sig. |
|-----------------|-------------------------|----|-------------|----------|------|
| Corrected Model | 163.137 <sup>a</sup>    | 4  | 40.784      | 31.307   | .003 |
| Intercept       | 5251.901                | 1  | 5251.901    | 4031.551 | .000 |
| Basis_Gel       | 58.042                  | 2  | 29.021      | 22.278   | .007 |
| Konsentrasi     | 105.095                 | 2  | 52.548      | 40.337   | .002 |
| Error           | 5.211                   | 4  | 1.303       |          |      |
| Total           | 5420.249                | 9  |             |          |      |
| Corrected Total | 168.348                 | 8  |             |          |      |

a. R Squared = .969 (Adjusted R Squared = .938)

### Paired Samples Test

|        |   | Paired Differences |                   |                       |   | t            | df          | Sig.<br>(2-<br>tailed) |       |
|--------|---|--------------------|-------------------|-----------------------|---|--------------|-------------|------------------------|-------|
|        |   | Mean               | Std.<br>Deviation | Std.<br>Error<br>Mean | 95% Confidence<br>Interval of the<br>Difference |              |             |                        |       |
|        |   |                    |                   |                       | Lower   |              |             |                        | Upper |
| Pair 1 | F1Sebelum.stabilitas<br>-<br>F1Sesudah.stabilitas | -<br>1.41667       | .62011            | .35802                | -<br>2.95710                                    | .12377       | -3.957      | 2                      | .058  |
| Pair 2 | F2Sebelum.stabilitas<br>-<br>F2Sesudah.stabilitas | -.63000            | .48754            | .28148                | -<br>1.84113                                    | .58113       | -2.238      | 2                      | .155  |
| Pair 3 | F3Sebelum.stabilitas<br>-<br>F3Sesudah.stabilitas | -<br>2.86333       | .22502            | .12991                | -<br>3.42231                                    | -<br>2.30436 | -<br>22.040 | 2                      | .002  |
| Pair 4 | F4Sebelum.stabilitas<br>-<br>F4Sesudah.stabilitas | .59667             | 2.16915           | 1.25236               | -<br>4.79181                                    | 5.98515      | .476        | 2                      | .681  |
| Pair 5 | F5Sebelum.stabilitas<br>-<br>F5Sesudah.stabilitas | .38667             | .83966            | .48478                | -<br>1.69917                                    | 2.47250      | .798        | 2                      | .509  |
| Pair 6 | F6Sebelum.stabilitas<br>-<br>F6Sesudah.stabilitas | -.83333            | .49943            | .28835                | -<br>2.07399                                    | .40733       | -2.890      | 2                      | .102  |
| Pair 7 | F7Sebelum.stabilitas<br>-<br>F7Sesudah.stabilitas | -<br>3.62667       | 2.04295           | 1.17950               | -<br>8.70163                                    | 1.44830      | -3.075      | 2                      | .091  |
| Pair 8 | F8Sebelum.stabilitas<br>-<br>F8Sesudah.stabilitas | -<br>3.46000       | 2.50142           | 1.44420               | -<br>9.67387                                    | 2.75387      | -2.396      | 2                      | .139  |
| Pair 9 | F9Sebelum.stabilitas<br>-<br>F9Sesudah.stabilitas | -<br>3.28000       | 1.00638           | .58103                | -<br>5.77999                                    | -.78001      | -5.645      | 2                      | .030  |