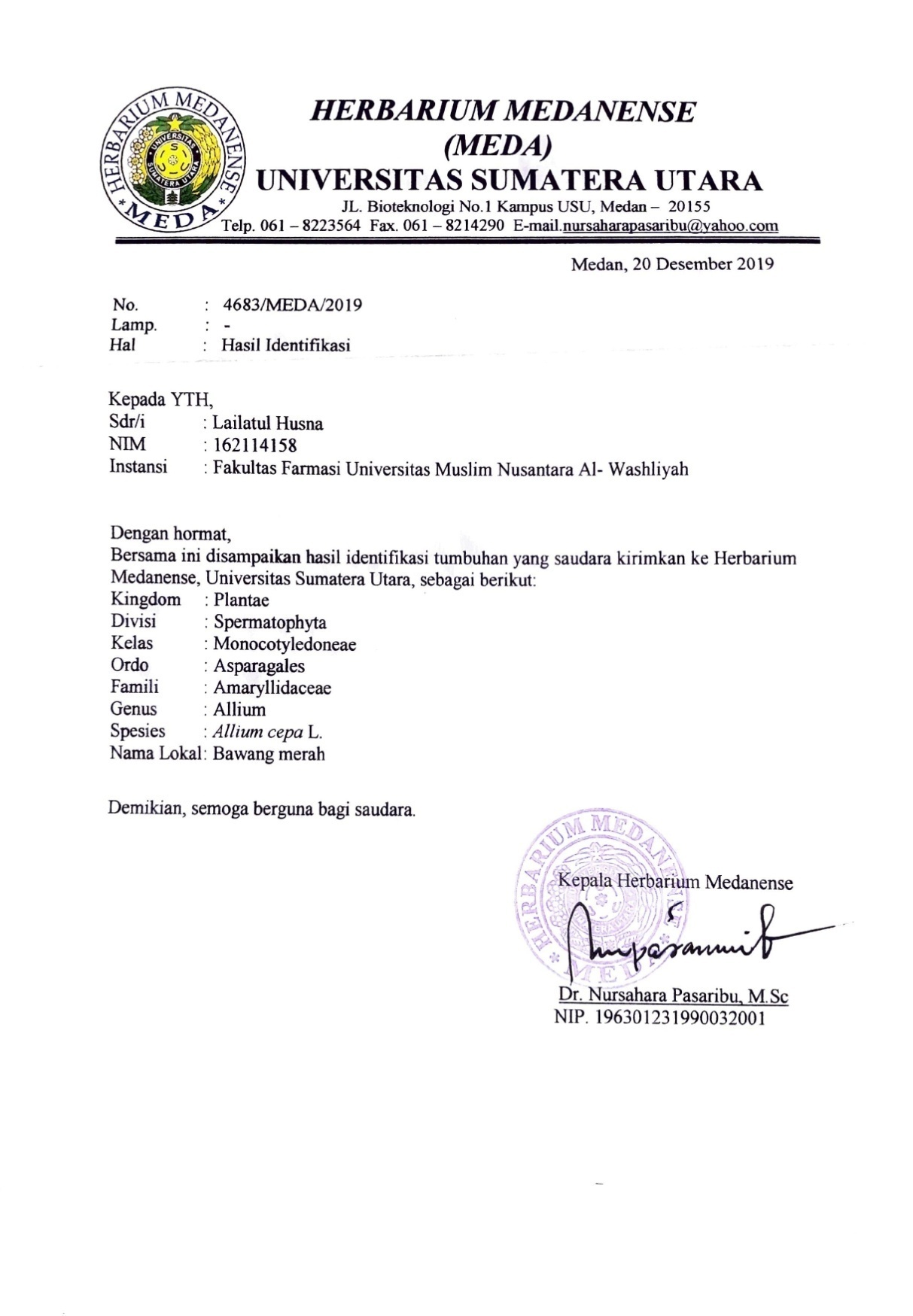
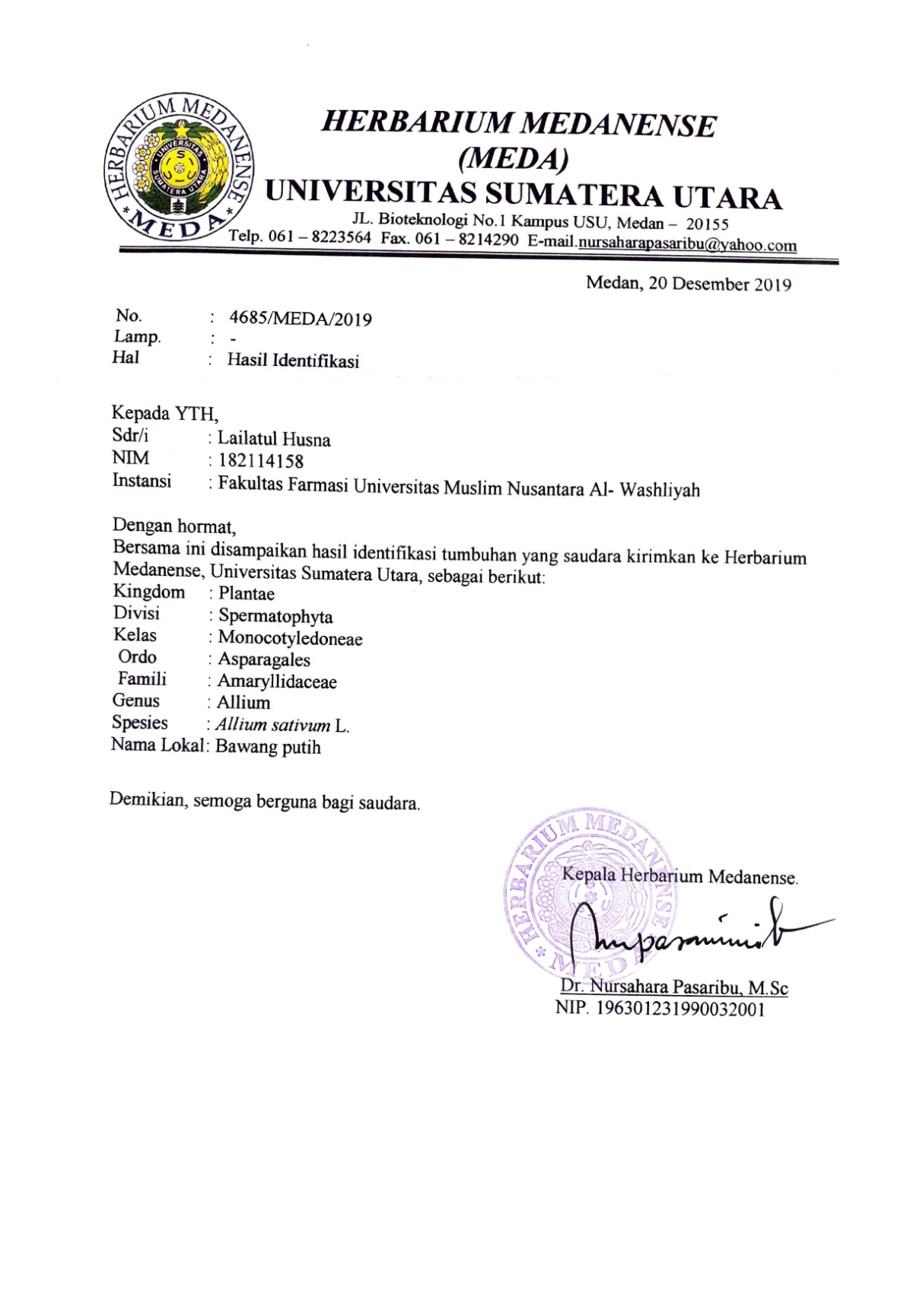
**Lampiran 1**. Hasil Identifikasi Tumbuhan

* + 1. Hasil Identifikasi Tumbuhan Bawang Merah (*Allium cepa* L.)



**Lampiran 1**. (lanjutan)

* + 1. Hasil Identifikasi Tumbuhan Bawang Putih (*Allium sativum* L.)



**Lampiran 2**. Bagan Alir Pembuatan Simplisia kulit bawang merah (*Allium cepa* L.) dan kulit bawang putih (*Allium sativum* L.)

Kulit bawang merah dan bawang putih

dibersihkan

dicuci dan ditiriskan

dikeringkan dalam lemari pengering

disortasi kering

Simplisia kulit bawang merah dan bawang putih

dihaluskan menggunakan blender

diayak

Serbuk simplisia kulit bawang merah dan bawang putih

**Lampiran 3**. Bagan Karakterisasi Simplisia kulit bawang merah (*Allium cepa* L.) dan kulit bawang putih (*Allium sativum* L.)

1. **Penetapan Kadar Air (Metode Azeotrop)**

Toluen : Air

(100 : 1)

Dimasukkan dalam labu alas bulat

Dipasang dan didestilasi selama 2 jam

Didinginkan selama 30 menit, sampai Toluen dan air memisah

Dihitung Volume air dalam tabung penerima

Toluen : Air

(100 : 1)

Dimasukkan 2,5 gram serbuk simplisia dalam labu alas bulat berisi toluen yang telah jenuh

Dipanaskan selama 15 menit sampai toluene mendidik diatur kecepatan tetesan 2 tetes perdetik

Dibiarkan sampai semua air terdestilasi

Dibiarkan tabung penerima dingin sampai air dan toluen memisah sempurna

Dihitung volume air dalam tabung penerima

Volume air akhir

**Lampiran 3**. (lanjutan)

1. **Penetapan Kadar Sari larut dalam air**

Serbuk Simplisia

Ditimbang 5 gram

Dimaserasi dengan 100 ml air dan 0,25 ml kloroform selama 24 jam sambil sesekali dikocok

Disaring

Filtrat

Diambil 20 ml diuapkan dalam cawan poselen yang telah ditara pada suhu 105oC sampai bobot tetap

Ditimbang

Berat Sari

1. **Penetapan Kadar Sari larut dalam etanol**

Serbuk Simplisia

Ditimbang 5 gram

Dimaserasi dengan 100 ml etanol selama 24 jam sambil sesekali dikocok

Disaring

Filtrat

Diambil 20 ml diuapkan dalam cawan poselen yang telah ditara pada suhu 105oC sampai bobot tetap

Ditimbang

Berat Sari

**Lampiran 3**. (lanjutan)

1. **Penetapan Kadar Abu Total**

Serbuk Simplisia

Ditimbang 2 gram

Dimasukkan dalam kurs porselen dalam tanur dipijar dan ditara

Dimasukkan kurs porselen dalam tanur dipijar pada suhu 600oC selama 3 jam

Dikeluarkan didinginkan

Ditimbang

Berat Abu

1. **Penetapan Kadar Abu Tidak Larut Asam**

Abu

Dimasukkan dalam cawan

Ditambah 25 ml HCL encer

Didihkan selama 15 menit

Disaring dengan kertas saring bebas abu

Dipijar dalam tanur

Berat Abu Tidak Larut Asam

Didinginkan dan ditimbang

**Lampiran 4.** Bagan Pembuatan Ekstrak Etanol kulit bawang merah (*Allium cepa* L.) dan kulit bawang putih (*Allium sativum* L.)

Serbuk Simplisia

Ditimbang 500 gram

Dimasukkan dalam bejana

Ditambahkan 75 bagian etanol 96% (3750 ml) diamkan selama 5 hari

Diaduk sesekali dan disaring

Ampas I

Maserat I

Ditambahkan 25 bagian etanol 96% (1250 ml) didiamkan selama 2 hari

Diaduk sesekali dan disaring

Maserat I

Ampas II

Dibuang

Maserat I dan II

dicampur

Dipekatkan dengan rotary evapator

Ekstrak Kental

**Lampiran 5**. Bagan Pembuatan Gel Tabir Surya

Kerbopol 940 dikembangkan ke dalam aquadest

(20 x berat karbopol)

ditambahkan TEA sedikit demi sedikit

ditambahkan propilen glikol, metil paraben, dan propil paraben

digerus homogen

Basis Gel

ditambah ekstrak etanol kulit bawang merah dan kulit bawang putih

ditambahkan sisa aquadest sedikit demi sedikit sambil digerus

digerus sampai terbentuk gel yang homogen

Gel tabir surya

**Lampiran 6**. Bagan Uji Stabilitas (*Cycling test*) Sedaan Gel Tabir Surya

Gel Tabir Surya

Disimpan dalam suhu kulkas 4°C selama 24 jam

satu siklus

Disimpan dalam suhu ruangan 40°C selama 24 jam

Homogenitass

pH

Organoleptis

Viskositas

Daya Sebar

Daya Lekat

Dilakukan sebanyak

tiga siklus

**Lampiran 7**. Bagan Penentuan Nilai SPF Gel Tabir Surya

Gel Tabir Surya

ditimbang 0,02 gram

ditambahkan 5 ml etanol p.a

diaduk homogen

Larutan Gel tabir surya

diambil 1 ml

dimasukkan kedalam kuvet

diukur serapan dengan spektrofotometer UV-Vis pada panjang gelombang 290-320 dengan interval 5 nm

Absrobansi

dihitung menggunakan rumus Mansur

Nilai SPF

**Lampiran 8**. Perhitungan Hasil Penetapan Kadar Air

1. **Kadar air kulit bawang merah**

**Pegulangan 1.**

Volume awal air (V0) = 0,1 ml

Volime akhir air (V1) = 0,3 ml

Berat sampel = 2,5 gram

Kadar air =

=

= 8%

**Pengulangan 2.**

Volume awal air (V0) = 0,4 ml

Volime akhir air (V1) = 0,6 ml

Berat sampel = 2,5 gram

Kadar air =

=

= 8%

Rata-rata kadar air =

= 8%

**Lampiran 8**. (lanjutan)

1. **Kadar air kulit bawang putih**

**Pegulangan 1.**

Volume awal air (V0) = 0,15 ml

Volime akhir air (V1) = 0,3 ml

Berat sampel = 2,5 gram

Kadar air =

=

= 6%

**Pengulangan 2.**

Volume awal air (V0) = 0,15 ml

Volime akhir air (V1) = 0,35 ml

Berat sampel = 2,5 gram

Kadar air =

=

= 8%

Rata-rata kadar air =

= 7%

**Lampiran 9**. Perhitungan Hasil Penetapan Kadar Sari Larut Air

1. **Penenetapan Kadar Sari Larut Air Kulit Bawang Merah**

**Pengulangan 1**.

Berat cawan kosong = 32,3251 gram

Berat cawan + sari = 32,3735 gram

Berat sari kering = (Berat cawan + sari) – (Berar cawan kosong)

= 32,3735 gram - 32,3251 gram

= 0,0484 gram

Kadar sari larut air =

= 4,84 %

**Pengulangan 2.**

Berat cawan kosong = 26, 9688 gram

Berat cawan + sari = 27, 0066 gram

Berat sari kering = (Berat cawan + sari) – (Berar cawan kosong)

= 27, 0066 gram - 26, 9688 gram

= 0,0378 gram

Kadar sari larut air =

= 3,78 %

Rata-rata kadar sari larut air =

= 4,31%

**Lampiran 9**. (lanjutan)

1. **Penenetapan Kadar Sari Larut Air Kulit Bawang Putih**

**Pengulangan 1**.

Berat cawan kosong = 58,8530 gram

Berat cawan + sari = 58,9439 gram

Berat sari kering = (Berat cawan + sari) – (Berar cawan kosong)

= 58,9439 gram - 58,8530 gram

= 0,0909 gram

Kadar sari larut air =

= 9,09 %

**Pengulangan 2.**

Berat cawan kosong = 55,7421 gram

Berat cawan + sari = 55,8402 gram

Berat sari kering = (Berat cawan + sari) – (Berar cawan kosong)

= 55,8402 gram - 55,7421 gram

= 0,0981 gram

Kadar sari larut air =

= 9,81 %

Rata-rata kadar sari larut air =

= 9,45%

**Lampiran 10**. Perhitungan Hasil Penetapan Kadar Sari Larut Etanol

1. **Penenetapan Kadar Sari Larut Etanol Kulit Bawang Merah**

**Pengulangan 1**.

Berat cawan kosong = 32,3251 gram

Berat cawan + sari = 32,3268 gram

Berat sari kering = (Berat cawan + sari) – (Berar cawan kosong)

= 32, 3268 gram - 32,3251 gram

= 0,0431 gram

Kadar sari larut etanol =

= 4,31 %

**Pengulangan 2.**

Berat cawan kosong = 26, 9688 gram

Berat cawan + sari = 27, 0261 gram

Berat sari kering = (Berat cawan + sari) – (Berar cawan kosong)

= 27, 0261 gram - 26, 9688 gram

= 0,0573 gram

Kadar sari larut etanol =

= 5,73 %

Rata-rata kadar sari larut etanol =

= 5,02%

**Lampiran 10**. (lanjutan)

1. **Penenetapan Kadar Sari Larut Etanol Kulit Bawang Putih**

**Pengulangan 1**.

Berat cawan kosong = 58,8530 gram

Berat cawan + sari = 58,8810 gram

Berat sari kering = (Berat cawan + sari) – (Berar cawan kosong)

= 58, 901 gram - 58,8530 gram

= 0,048 gram

Kadar sari larut etanol =

= 4,8 %

**Pengulangan 2.**

Berat cawan kosong = 26, 9688 gram

Berat cawan + sari = 26,9960 gram

Berat sari kering = (Berat cawan + sari) – (Berar cawan kosong)

= 27,016gram - 26, 9688 gram

= 0,0472 gram

Kadar sari larut etanol =

= 4,72 %

Rata-rata kadar sari larut etanol =

= 4,76%

**Lampiran 11**. Perhitungan Hasil Penetapan Kadar Abu Total

1. **Penenetapan Kadar Abu Total Kulit Bawang Merah**

**Pengulangan 1**.

Berat krus kosong = 59,53 gram

Berat krus + abu = 59,69 gram

Berat abu = (Berat krus + abu) – (Berat krus kosong)

= 59,69 gram - 59,53 gram

= 0,161 gram

Kadar Abu total =

= 5,3 %

**Pengulangan 2.**

Berat krus kosong = 64,13 gram

Berat krus + abu = 63,26 gram

Berat abu = (Berat krus + abu) – (Berat krus kosong)

= 63,26 gram - 64,13 gram

= 0,15 gram

Kadar Abu total =

= 5 %

Rata-rata kadar Abu total =

= 5,15%

**Lampiran 11**. (lanjutan)

1. **Penenetapan Kadar Abu Total Kulit Bawang Putih**

**Pengulangan 1**.

Berat krus kosong = 52,82 gram

Berat krus + abu = 52,95 gram

Berat abu = (Berat krus + abu) – (Berat krus kosong)

= 52,95 gram - 52,82 gram

= 0,13 gram

Kadar Abu total =

= 4,3 %

**Pengulangan 2.**

Berat krus kosong = 52,79 gram

Berat krus + abu = 52,91 gram

Berat abu = (Berat krus + abu) – (Berat krus kosong)

= 52,91 gram - 52,79 gram

= 0,12 gram

Kadar Abu total =

= 4 %

Rata-rata kadar Abu total =

= 4,15%

**Lampiran 12**. Perhitungan Hasil Penetapan Kadar Abu Tidak Larut Asam

1. **Penenetapan Kadar Abu Total Kulit Bawang Merah**

**Pengulangan 1**.

Berat abu mula-mula = 0,16

Berat krus kosong = 59,5350 gram

Berat krus + abu tidak larut asam = 59,5361 gram

Berat abu = (Berat krus + abu tidak larut asam) – (Berat krus kosong)

= 59,5361 gram - 59,5350 gram

= 0,0011 gram

Kadar Abu tidak larut asam =

= 0,6875 %

**Pengulangan 2.**

Berat abu mula-mula = 0,15

Berat krus kosong = 63,1445 gram

Berat krus + abu tidak larut asam = 63,1459 gram

Berat abu = (Berat krus + abu tidak larut asam) – (Berat krus kosong)

= 63,1459 gram - 63,1445 gram

= 0,008 gram

Kadar Abu tidak larut asam =

= 0,5333 %

Rata-rata kadar Abu total =

= 0,6194%

**Lampiran 12**. (lanjutan)

1. **Penenetapan Kadar Abu Total Kulit Bawang Putih**

**Pengulangan 1**.

Berat abu mula-mula = 0,13

Berat krus kosong = 52,8203 gram

Berat krus + abu tidak larut asam = 52,8211 gram

Berat abu = (Berat krus + abu tidak larut asam) – (Berat krus kosong)

= 52,8211 gram - 52,8203 gram

= 0,0008 gram

Kadar Abu tidak larut asam =

= 0,6153 %

**Pengulangan 2.**

Berat abu mula-mula = 0,12

Berat krus kosong = 57,7911 gram

Berat krus + abu tidak larut asam = 57,7920 gram

Berat abu = (Berat krus + abu tidak larut asam) – (Berat krus kosong)

= 57,79 gram - 57,79 gram

= 0,0009 gram

Kadar Abu tidak larut asam =

= 0,75 %

Rata-rata kadar Abu total =

= 0,6826%

**Lampiran 13**. Perhitungan Rendemen Ekstrak Kulit Bawang Merah (*Allium cepa* L.) dan kulit bawang putih (*Allium sativum* L.)

1. Rendemen Ekstrak Kulit Kulit Bawang Merah (*Allium cepa* L.)

Berat simplisia kulit Bawang Merah = 1000 gram

Berat ekstrak kental kulit Bawang Merah = 84,62 gram

% Rendemen = x 100%

= x 100%

= 8,462 %

1. Rendemen Ekstrak Kulit Kulit Bawang Putih (*Allium sativum* L.)

Berat simplisia kulit Bawang Merah = 1000 gram

Berat ekstrak kental kulit Bawang Merah = 52,33 gram

% Rendemen = x 100%

= x 100%

= 5,233 %

**Lampiran 14.** Perhitungan Nilai SPF Sediaan Blanko

**Pengulangan 1**



|  |  |  |  |
| --- | --- | --- | --- |
| Panjang Gelombang  (nm) | Absorbansi | EE x I | Abs x EE x I |
| 290 | 0.058 | 0,0150 | 0,0008 |
| 295 | 0,060 | 0,0817 | 0,0047 |
| 300 | 0,063 | 0,2874 | 0,0181 |
| 305 | 0,066 | 0,3278 | 0,0216 |
| 310 | 0,068 | 0,1864 | 0,0126 |
| 315 | 0,069 | 0,0839 | 0,0057 |
| 320 | 0,072 | 0,0180 | 0,0129 |
| x EE x I | | | 0.0764 |

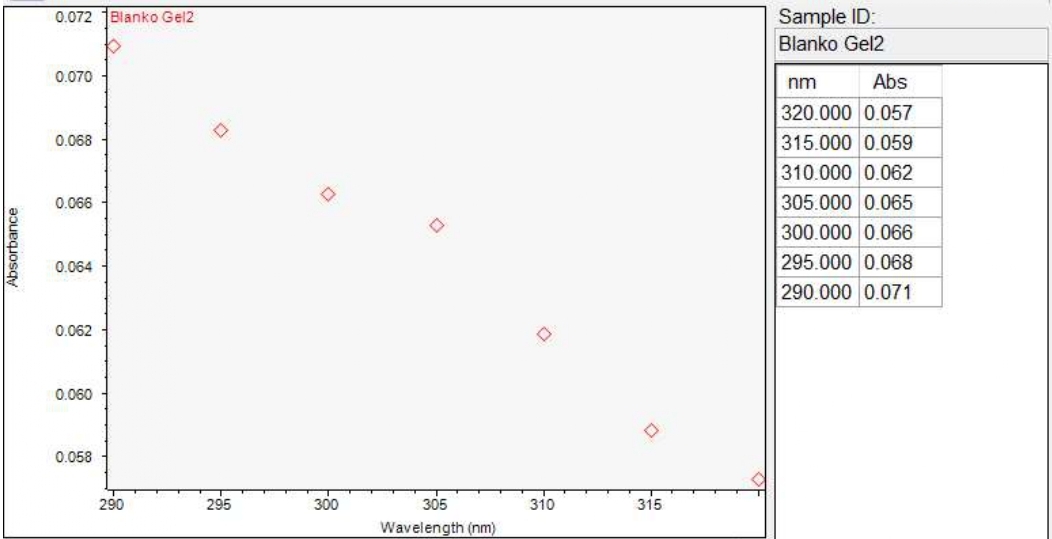
SPF = CF × x EE x I

= 10 x 0.0764

= 0,7646

**Lampiran 14**. (lanjutan)

**Pengulangan 2**



|  |  |  |  |
| --- | --- | --- | --- |
| Panjang Gelombang  (nm) | Absorbansi | EE x I | Abs x EE x I |
| 290 | 0,057 | 0,0150 | 0,0008 |
| 295 | 0,059 | 0,0817 | 0,0048 |
| 300 | 0,062 | 0,2874 | 0,0178 |
| 305 | 0,065 | 0,3278 | 0,0213 |
| 310 | 0,066 | 0,1864 | 0,0123 |
| 315 | 0,068 | 0,0839 | 0,0026 |
| 320 | 0,071 | 0,0180 | 0,0012 |
| x EE x I | | | 0,0608 |

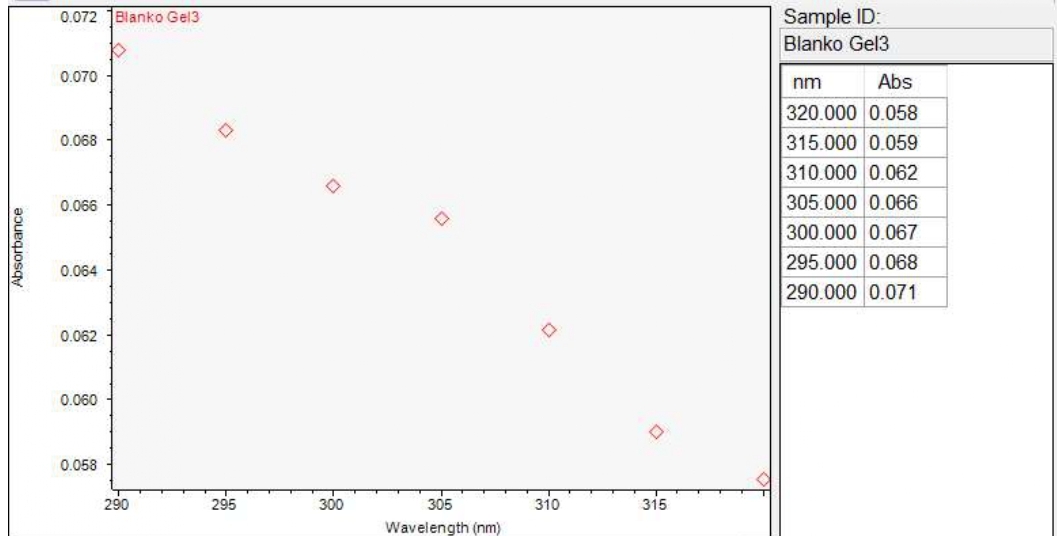
SPF = CF × x EE x I

= 10 x 0,0608

= 0,608

**Lampiran 14**. (lanjutan)

**Pengulangan 3.**



|  |  |  |  |
| --- | --- | --- | --- |
| Panjang Gelombang  (nm) | Absorbansi | EE x I | Abs x EE x I |
| 290 | 0,058 | 0,0150 | 0,0008 |
| 295 | 0,059 | 0,0817 | 0,0048 |
| 300 | 0,062 | 0,2874 | 0,0178 |
| 305 | 0,066 | 0,3278 | 0,0216 |
| 310 | 0,087 | 0,1864 | 0,0162 |
| 315 | 0,068 | 0,0839 | 0,0057 |
| 320 | 0,071 | 0,0180 | 0,0012 |
| x EE x I | | | 0,0681 |

SPF = CF × x EE x I

= 10 x 0,0681

= 0,681

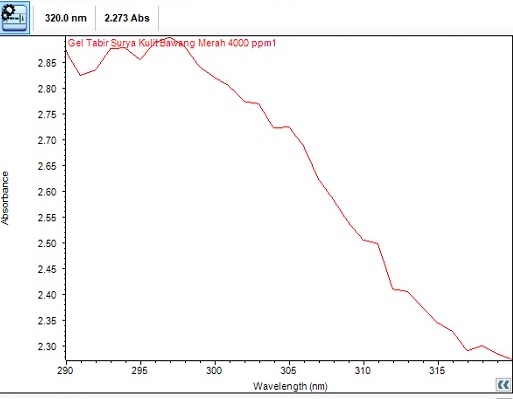
**Rata-rata nilai SPF** =

= 0,7646+ 0,608 + 0,681

= 0,6845

**Lampiran 15.** Perhitungan Nilai SPF Gel Tabir Surya Ekstrak Etanol Kulit Bawang Merah (Allium cepa L.)

**Pengulangan 1**



|  |  |  |  |
| --- | --- | --- | --- |
| Panjang Gelombang  (nm) | Absorbansi | EE x I | Abs x EE x I |
| 290 | 2.872 | 0,0150 | 0,0430 |
| 295 | 2.855 | 0,0817 | 0,2332 |
| 300 | 2.820 | 0,2874 | 0,8104 |
| 305 | 2.724 | 0,3278 | 0,8929 |
| 310 | 2.506 | 0,1864 | 0,4671 |
| 315 | 2.343 | 0,0839 | 0,1965 |
| 320 | 2.273 | 0,0180 | 0,0409 |
| x EE x I | | | 2,6840 |

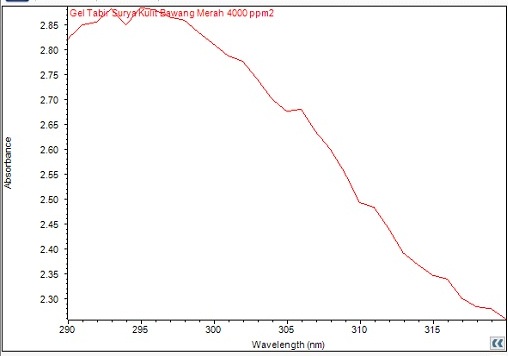
SPF = CF × x EE x I

= 10 x 2,6840

= 26, 684

**Lampiran 15**. (lanjutan)

**Pengulangan 2**



|  |  |  |  |
| --- | --- | --- | --- |
| Panjang Gelombang  (nm) | Absorbansi | EE x I | Abs x EE x I |
| 290 | 2.820 | 0,0150 | 0,0423 |
| 295 | 2.881 | 0,0817 | 0,2353 |
| 300 | 2.809 | 0,2874 | 0,8073 |
| 305 | 2.677 | 0,3278 | 0,8775 |
| 310 | 2.490 | 0,1864 | 0,4641 |
| 315 | 2.346 | 0,0839 | 0,1968 |
| 320 | 2.258 | 0,0180 | 0,0406 |
| x EE x I | | | 2,6639 |

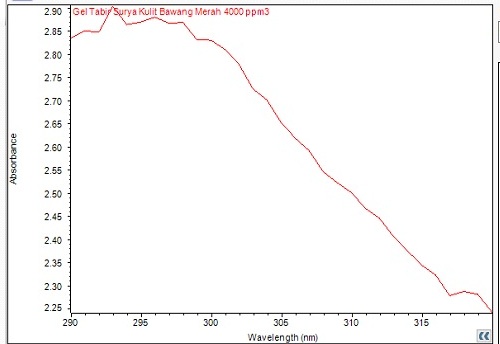
SPF = CF × x EE x I

= 10 x 2,6639

= 26, 639

**Lampiran 15**. (lanjutan)

**Pengulangan 3.**



|  |  |  |  |
| --- | --- | --- | --- |
| Panjang Gelombang  (nm) | Absorbansi | EE x I | Abs x EE x I |
| 290 | 2.836 | 0,0150 | 0,0425 |
| 295 | 2.868 | 0,0817 | 0,2343 |
| 300 | 2.827 | 0,2874 | 0,8124 |
| 305 | 2.653 | 0,3278 | 0,8696 |
| 310 | 2.498 | 0,1864 | 0,4659 |
| 315 | 2.343 | 0,0839 | 0,1965 |
| 320 | 2.242 | 0,0180 | 0,0403 |
| x EE x I | | | 2,6612 |

SPF = CF × x EE x I

= 10 x 2,6612

= 26, 612

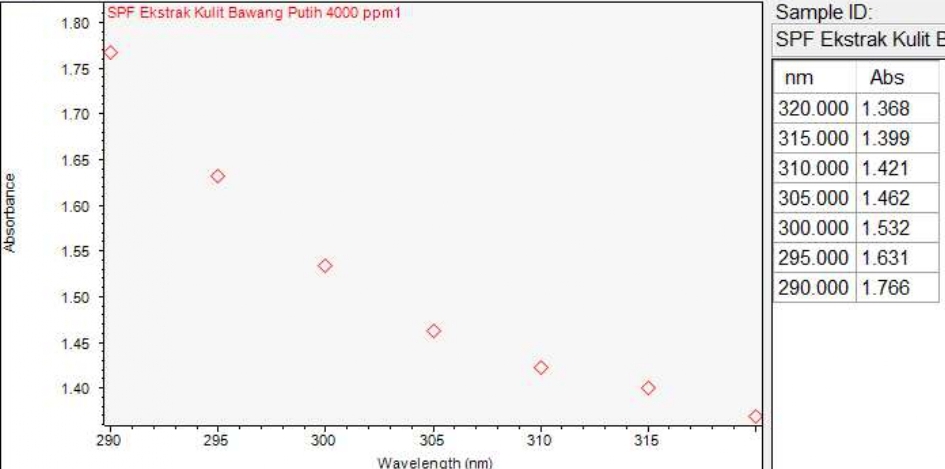
**Rata-rata nilai SPF** =

= 26, 684 + 26, 639 + 26, 612

= 26,697

**Lampiran 16**. Perhitungan Nilai SPF Sediaan Gel Tabir Surya Kulit Bawang Putih

**Pengulangan 1.**



|  |  |  |  |
| --- | --- | --- | --- |
| Panjang Gelombang  (nm) | Absorbansi | EE x I | Abs x EE x I |
| 290 | 1,368 | 0,0150 | 0,0205 |
| 295 | 1,399 | 0,0817 | 0,1142 |
| 300 | 1,421 | 0,2874 | 0,4083 |
| 305 | 1,462 | 0,3278 | 0,4792 |
| 310 | 1,532 | 0,1864 | 0,2855 |
| 315 | 1,631 | 0,0839 | 0,1368 |
| 320 | 1,766 | 0,0180 | 0,0317 |
| x EE x I | | | 1,4763 |

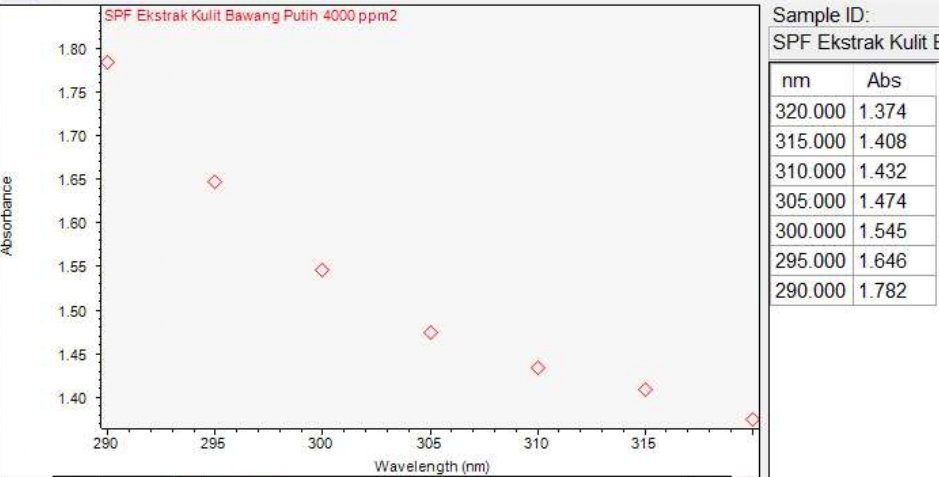
SPF = CF × x EE x I

= 10 x 1,4763

= 14,763

**Lampiran 16**. (lanjutan)

**Pengulangan 2.**



|  |  |  |  |
| --- | --- | --- | --- |
| Panjang Gelombang  (nm) | Absorbansi | EE x I | Abs x EE x I |
| 290 | 1,374 | 0,0150 | 0,0206 |
| 295 | 1,408 | 0,0817 | 0,1150 |
| 300 | 1,432 | 0,2874 | 0,4115 |
| 305 | 1,474 | 0,3278 | 0,4831 |
| 310 | 1,545 | 0,1864 | 0,2579 |
| 315 | 1,646 | 0,0839 | 0,1380 |
| 320 | 1,782 | 0,0180 | 0,0320 |
| x EE x I | | | 1,4881 |

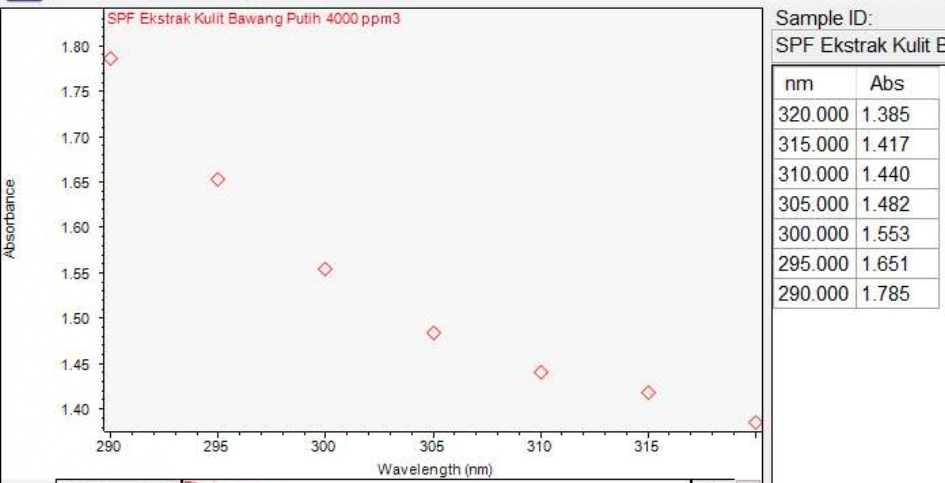
SPF = CF × x EE x I

= 10 x 1,4881

= 14,881

**Lampiran 16**. (lanjutan)

**Pengulangan 3.**



|  |  |  |  |
| --- | --- | --- | --- |
| Panjang Gelombang  (nm) | Absorbansi | EE x I | Abs x EE x I |
| 290 | 1,385 | 0,0150 | 0,0207 |
| 295 | 1,417 | 0,0817 | 0,1157 |
| 300 | 1,440 | 0,2874 | 0,4138 |
| 305 | 1,482 | 0,3278 | 0,4857 |
| 310 | 1,553 | 0,1864 | 0,2894 |
| 315 | 1,651 | 0,0839 | 0,1385 |
| 320 | 1,785 | 0,0180 | 0,0321 |
| x EE x I | | | 1,4959 |

SPF = CF × x EE x I

= 10 x1,4959

= 14,959

**Rata-rata nilai SPF** =

= 14,763 + 14,881+ 14,959

= 14,876

**Lampiran 17.** Perhitungan Lama Proteksi Sediaan Gel Tabir Surya

1. **Blanko**

Nilai SPF : 0,6847

Lama proteksi = 0,6847 x 10 = 6,87

= = 0.11 jam

1. **Gel Ekstrak Kulit Bawang Merah**

Nilai SPF : 26,274

Lama proteksi = 26,274 x 10 = 262,74

= = 4,379 jam

1. **Gel Ekstrak Kulit Bawang Putih**

Nilai SPF : 14,867

Lama proteksi = 14,867 x 10 = 148,67

= = 2,477 jam

**Lampiran 18.** Data SPSS Uji Evaluasi Sediaan Gel Tabir Surya

* + 1. **Data SPSS Uji pH Sediaan Tabir Surya**

**Oneway**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | | | | | |
|  | | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
| Lower Bound | Upper Bound |
| sebelum | F0 | 3 | 7,0000 | ,00000 | ,00000 | 7,0000 | 7,0000 | 7,00 | 7,00 |
| F1 | 3 | 7,6333 | ,05774 | ,03333 | 7,4899 | 7,7768 | 7,60 | 7,70 |
| F2 | 3 | 7,3667 | ,05774 | ,03333 | 7,2232 | 7,5101 | 7,30 | 7,40 |
| Total | 9 | 7,3333 | ,27839 | ,09280 | 7,1193 | 7,5473 | 7,00 | 7,70 |
| s1 | F0 | 3 | 7,0000 | ,00000 | ,00000 | 7,0000 | 7,0000 | 7,00 | 7,00 |
| F1 | 3 | 7,1000 | ,00000 | ,00000 | 7,1000 | 7,1000 | 7,10 | 7,10 |
| F2 | 3 | 7,0667 | ,05774 | ,03333 | 6,9232 | 7,2101 | 7,00 | 7,10 |
| Total | 9 | 7,0556 | ,05270 | ,01757 | 7,0150 | 7,0961 | 7,00 | 7,10 |
| s2 | F0 | 3 | 7,0000 | ,00000 | ,00000 | 7,0000 | 7,0000 | 7,00 | 7,00 |
| F1 | 3 | 6,9667 | ,05774 | ,03333 | 6,8232 | 7,1101 | 6,90 | 7,00 |
| F2 | 3 | 7,1000 | ,00000 | ,00000 | 7,1000 | 7,1000 | 7,10 | 7,10 |
| Total | 9 | 7,0222 | ,06667 | ,02222 | 6,9710 | 7,0735 | 6,90 | 7,10 |
| s3 | F0 | 3 | 7,0000 | ,00000 | ,00000 | 7,0000 | 7,0000 | 7,00 | 7,00 |
| F1 | 3 | 7,0333 | ,05774 | ,03333 | 6,8899 | 7,1768 | 7,00 | 7,10 |
| F2 | 3 | 6,9667 | ,05774 | ,03333 | 6,8232 | 7,1101 | 6,90 | 7,00 |
| Total | 9 | 7,0000 | ,05000 | ,01667 | 6,9616 | 7,0384 | 6,90 | 7,10 |

**Lampiran 18**. (lanjutan)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test of Homogeneity of Variances** | | | | |
|  | Levene Statistic | df1 | df2 | Sig. |
| sebelum | 8,000 | 2 | 6 | ,020 |
| s1 | 16,000 | 2 | 6 | ,004 |
| s2 | 16,000 | 2 | 6 | ,004 |
| s3 | 8,000 | 2 | 6 | ,020 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | | |
|  | | Sum of Squares | df | Mean Square | F | Sig. |
| sebelum | Between Groups | ,607 | 2 | ,303 | 136,500 | ,000 |
| Within Groups | ,013 | 6 | ,002 |  |  |
| Total | ,620 | 8 |  |  |  |
| s1 | Between Groups | ,016 | 2 | ,008 | 7,000 | ,027 |
| Within Groups | ,007 | 6 | ,001 |  |  |
| Total | ,022 | 8 |  |  |  |
| s2 | Between Groups | ,029 | 2 | ,014 | 13,000 | ,007 |
| Within Groups | ,007 | 6 | ,001 |  |  |
| Total | ,036 | 8 |  |  |  |
| s3 | Between Groups | ,007 | 2 | ,003 | 1,500 | ,296 |
| Within Groups | ,013 | 6 | ,002 |  |  |
| Total | ,020 | 8 |  |  |  |

**Lampiran** **18**. (lanjutan)

* + 1. **Data SPSS Uji Viskositas Sediaan Tabir Surya**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | | | | | |
|  | | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
| Lower Bound | Upper Bound |
| S0 | F0 | 3 | 33686,6667 | 1190,05602 | 687,07916 | 30730,4036 | 36642,9297 | 32490,00 | 34870,00 |
| F1 | 3 | 26283,3333 | 1620,16460 | 935,40247 | 22258,6213 | 30308,0453 | 24650,00 | 27890,00 |
| F2 | 3 | 16023,3333 | 1792,04725 | 1034,63896 | 11571,6412 | 20475,0255 | 14330,00 | 17900,00 |
| Total | 9 | 25331,1111 | 7798,84197 | 2599,61399 | 19336,3905 | 31325,8317 | 14330,00 | 34870,00 |
| S1 | F0 | 3 | 31470,0000 | 951,41999 | 549,30259 | 29106,5417 | 33833,4583 | 30550,00 | 32450,00 |
| F1 | 3 | 23260,0000 | 1833,22121 | 1058,41076 | 18706,0261 | 27813,9739 | 21640,00 | 25250,00 |
| F2 | 3 | 18096,6667 | 1579,56745 | 911,96369 | 14172,8036 | 22020,5297 | 16340,00 | 19400,00 |
| Total | 9 | 24275,5556 | 5983,64461 | 1994,54820 | 19676,1192 | 28874,9920 | 16340,00 | 32450,00 |
| S2 | F0 | 3 | 31653,3333 | 3530,95360 | 2038,59701 | 22881,9583 | 40424,7083 | 28010,00 | 35060,00 |
| F1 | 3 | 26723,3333 | 3215,80990 | 1856,64871 | 18734,8187 | 34711,8480 | 23550,00 | 29980,00 |
| F2 | 3 | 17370,0000 | 1426,21878 | 823,42779 | 13827,0762 | 20912,9238 | 16420,00 | 19010,00 |
| Total | 9 | 25248,8889 | 6759,15757 | 2253,05252 | 20053,3405 | 30444,4373 | 16420,00 | 35060,00 |
| S3 | F0 | 3 | 28980,0000 | 1791,84263 | 1034,52082 | 24528,8162 | 33431,1838 | 26970,00 | 30410,00 |
| F1 | 3 | 26993,3333 | 680,09803 | 392,65478 | 25303,8762 | 28682,7905 | 26320,00 | 27680,00 |
| F2 | 3 | 15330,0000 | 622,17361 | 359,21210 | 13784,4351 | 16875,5649 | 14620,00 | 15780,00 |
| Total | 9 | 23767,7778 | 6465,51772 | 2155,17257 | 18797,9409 | 28737,6146 | 14620,00 | 30410,00 |

**Lampiran 18.** (lanjutan)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test of Homogeneity of Variances** | | | | |
|  | Levene Statistic | df1 | df2 | Sig. |
| S0 | ,219 | 2 | 6 | ,810 |
| S1 | ,786 | 2 | 6 | ,498 |
| S2 | ,634 | 2 | 6 | ,563 |
| S3 | 3,202 | 2 | 6 | ,113 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | | |
|  | | Sum of Squares | df | Mean Square | F | Sig. |
| S0 | Between Groups | 472070288,889 | 2 | 236035144,444 | 97,635 | ,000 |
| Within Groups | 14505200,000 | 6 | 2417533,333 |  |  |
| Total | 486575488,889 | 8 |  |  |  |
| S1 | Between Groups | 272910155,556 | 2 | 136455077,778 | 60,549 | ,000 |
| Within Groups | 13521866,667 | 6 | 2253644,444 |  |  |
| Total | 286432022,222 | 8 |  |  |  |
| S2 | Between Groups | 315803355,556 | 2 | 157901677,778 | 19,068 | ,003 |
| Within Groups | 49686333,333 | 6 | 8281055,556 |  |  |
| Total | 365489688,889 | 8 |  |  |  |
| S3 | Between Groups | 326302688,889 | 2 | 163151344,444 | 120,545 | ,000 |
| Within Groups | 8120666,667 | 6 | 1353444,444 |  |  |
| Total | 334423355,556 | 8 |  |  |  |

**Lampiran 18.** (lanjutan)

* + 1. **Data SPSS Uji Daya Sebar Sediaan Tabir Surya**

**Oneway**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | | | | | |
|  | | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
| Lower Bound | Upper Bound |
| S0 | F0 | 3 | 3,3743 | ,29390 | ,16968 | 2,6442 | 4,1044 | 3,05 | 3,62 |
| F1 | 3 | 3,8000 | ,04330 | ,02500 | 3,6924 | 3,9076 | 3,78 | 3,85 |
| F2 | 3 | 4,0250 | ,09014 | ,05204 | 3,8011 | 4,2489 | 3,93 | 4,10 |
| Total | 9 | 3,7331 | ,32556 | ,10852 | 3,4829 | 3,9834 | 3,05 | 4,10 |
| S1 | F0 | 3 | 3,1050 | ,00866 | ,00500 | 3,0835 | 3,1265 | 3,10 | 3,12 |
| F1 | 3 | 3,8333 | ,03819 | ,02205 | 3,7385 | 3,9282 | 3,80 | 3,88 |
| F2 | 3 | 3,9350 | ,04093 | ,02363 | 3,8333 | 4,0367 | 3,90 | 3,98 |
| Total | 9 | 3,6244 | ,39308 | ,13103 | 3,3223 | 3,9266 | 3,10 | 3,98 |
| S2 | F0 | 3 | 103,7850 | 174,25731 | 100,60750 | -329,0942 | 536,6642 | 3,13 | 305,00 |
| F1 | 3 | 3,7100 | ,07697 | ,04444 | 3,5188 | 3,9012 | 3,63 | 3,78 |
| F2 | 3 | 3,9833 | ,12332 | ,07120 | 3,6770 | 4,2897 | 3,90 | 4,13 |
| Total | 9 | 37,1594 | 100,44073 | 33,48024 | -40,0461 | 114,3650 | 3,13 | 305,00 |
| S3 | F0 | 3 | 4,2167 | ,20966 | ,12105 | 3,6958 | 4,7375 | 3,98 | 4,35 |
| F1 | 3 | 3,5417 | ,26497 | ,15298 | 2,8834 | 4,1999 | 3,30 | 3,83 |
| F2 | 3 | 3,7333 | ,68023 | ,39273 | 2,0436 | 5,4231 | 2,95 | 4,18 |
| Total | 9 | 3,8306 | ,48473 | ,16158 | 3,4580 | 4,2032 | 2,95 | 4,35 |

**Lampiran 18.** (lanjutan)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test of Homogeneity of Variances** | | | | |
|  | Levene Statistic | df1 | df2 | Sig. |
| S0 | 4,766 | 2 | 6 | ,058 |
| S1 | 2,353 | 2 | 6 | ,176 |
| S2 | 15,982 | 2 | 6 | ,004 |
| S3 | 4,823 | 2 | 6 | ,056 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | | |
|  | | Sum of Squares | df | Mean Square | F | Sig. |
| S0 | Between Groups | ,655 | 2 | ,328 | 10,197 | ,012 |
| Within Groups | ,193 | 6 | ,032 |  |  |
| Total | ,848 | 8 |  |  |  |
| S1 | Between Groups | 1,230 | 2 | ,615 | 574,927 | ,000 |
| Within Groups | ,006 | 6 | ,001 |  |  |
| Total | 1,236 | 8 |  |  |  |
| S2 | Between Groups | 19975,453 | 2 | 9987,727 | ,987 | ,426 |
| Within Groups | 60731,261 | 6 | 10121,877 |  |  |
| Total | 80706,714 | 8 |  |  |  |
| S3 | Between Groups | ,726 | 2 | ,363 | 1,888 | ,231 |
| Within Groups | 1,154 | 6 | ,192 |  |  |
| Total | 1,880 | 8 |  |  |  |

**Lampiran 18.** (lanjutan)

* + 1. **Data SPSS Uji Daya Lekat Sediaan Tabir Surya**

**Oneway**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | | | | | | |
|  | | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum | |
| Lower Bound | Upper Bound |
| S0 | F0 | 3 | 4,4500 | ,26963 | ,15567 | 3,7802 | 5,1198 | 4,14 | 4,63 | |
| F1 | 3 | 5,6933 | ,17954 | ,10366 | 5,2473 | 6,1393 | 5,49 | 5,83 | |
| F2 | 3 | 4,2667 | ,24786 | ,14310 | 3,6510 | 4,8824 | 4,09 | 4,55 | |
| Total | 9 | 4,8033 | ,70246 | ,23415 | 4,2634 | 5,3433 | 4,09 | 5,83 | |
| S1 | F0 | 3 | 5,0200 | ,42790 | ,24705 | 3,9570 | 6,0830 | 4,53 | 5,32 | |
| F1 | 3 | 6,1133 | ,09074 | ,05239 | 5,8879 | 6,3387 | 6,03 | 6,21 | |
| F2 | 3 | 4,4667 | ,37899 | ,21881 | 3,5252 | 5,4081 | 4,06 | 4,81 | |
| Total | 9 | 5,2000 | ,78126 | ,26042 | 4,5995 | 5,8005 | 4,06 | 6,21 | |
| S2 | F0 | 3 | 4,5100 | ,38197 | ,22053 | 3,5611 | 5,4589 | 4,21 | 4,94 | |
| F1 | 3 | 6,1267 | ,23756 | ,13715 | 5,5365 | 6,7168 | 5,97 | 6,40 | |
| F2 | 3 | 3,9167 | ,09609 | ,05548 | 3,6780 | 4,1554 | 3,83 | 4,02 | |
| Total | 9 | 4,8511 | 1,01691 | ,33897 | 4,0694 | 5,6328 | 3,83 | 6,40 | |
| S3 | F0 | 3 | 4,4767 | ,39145 | ,22600 | 3,5043 | 5,4491 | 4,03 | 4,76 | |
| F1 | 3 | 5,2433 | ,46090 | ,26610 | 4,0984 | 6,3883 | 4,80 | 5,72 | |
| F2 | 3 | 4,0467 | ,10504 | ,06064 | 3,7857 | 4,3076 | 3,94 | 4,15 | |
| Total | 9 | 4,5889 | ,60808 | ,20269 | 4,1215 | 5,0563 | 3,94 | 5,72 | |

**Lampiran 18**. (lanjutan)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test of Homogeneity of Variances** | | | | |
|  | Levene Statistic | df1 | df2 | Sig. |
| S0 | ,581 | 2 | 6 | ,588 |
| S1 | 2,941 | 2 | 6 | ,129 |
| S2 | 3,403 | 2 | 6 | ,103 |
| S3 | 1,996 | 2 | 6 | ,217 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ANOVA** | | | | | | |
|  | | Sum of Squares | df | Mean Square | F | Sig. |
| S0 | Between Groups | 3,615 | 2 | 1,807 | 32,592 | ,001 |
| Within Groups | ,333 | 6 | ,055 |  |  |
| Total | 3,948 | 8 |  |  |  |
| S1 | Between Groups | 4,213 | 2 | 2,107 | 18,866 | ,003 |
| Within Groups | ,670 | 6 | ,112 |  |  |
| Total | 4,883 | 8 |  |  |  |
| S2 | Between Groups | 7,850 | 2 | 3,925 | 55,654 | ,000 |
| Within Groups | ,423 | 6 | ,071 |  |  |
| Total | 8,273 | 8 |  |  |  |
| S3 | Between Groups | 2,205 | 2 | 1,102 | 8,779 | ,017 |
| Within Groups | ,753 | 6 | ,126 |  |  |
| Total | 2,958 | 8 |  |  |  |

**Lampiran 19**. Data SPSS Penentuan Nilai Sun Protecting Action

**Oneway**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Descriptives** | | | | | | | | |
| SPF | | | | | | | | |
|  | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
| Lower Bound | Upper Bound |
| F0 | 3 | ,6845 | ,07836 | ,04524 | ,4899 | ,8792 | ,61 | ,76 |
| F1 | 3 | 26,7253 | ,10345 | ,05973 | 26,4683 | 26,9823 | 26,64 | 26,84 |
| F2 | 3 | 14,8673 | ,09921 | ,05728 | 14,6209 | 15,1138 | 14,76 | 14,96 |
| Total | 9 | 14,0924 | 11,29126 | 3,76375 | 5,4132 | 22,7716 | ,61 | 26,84 |

|  |  |  |  |
| --- | --- | --- | --- |
| **Test of Homogeneity of Variances** | | | |
| SPF | | | |
| Levene Statistic | df1 | df2 | Sig. |
| ,205 | 2 | 6 | ,820 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ANOVA | | | | | |
| SPF | | | | | |
|  | Sum of Squares | Df | Mean Square | F | Sig. |
| Between Groups | 1019,887 | 2 | 509,944 | 57329,416 | ,000 |
| Within Groups | ,053 | 6 | ,009 |  |  |
| Total | 1019,941 | 8 |  |  |  |

**Lampiran 20.** Hasil Uji skrining fitokimia

1. **Ekstrak kulit bawang**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Golongan senyawa** | **Perlakuan** | **Gambar** | | **Hasil Uji** | **Keterangan** |
| **Serbuk** | **Ekstrak** |
| 1. | Alkaloid | 0,5 gram sampel + 1 ml HCl 2N + Aquadest 4,5 ml, dipanaskan 2 menit, dinginkan, disaring. Filtrat dibagi 3 bagian, masing-masing ditambah 2 tetes :   1. Mayer 2. Dragendrof 3. Buochardat   (Depkes RI, 1995) | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.14.23.jpeg | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.14.22 (1).jpeg | + | 1. Mayer   Tidak terbentuk endapan putih  (-)   1. Dragendrof   Terbentuk endapan merah – merah kecoklatan (+)  (Depkes RI, 1995)   1. Buochardat   Terbentuk larutan merah kekuningan (+)  (Depkes RI, 1995) |
| 2. | Flavonoid | 1gram smpel +10 ml air, didihkan selama 5 menit, disaring. Diambil 5 ml filtrat + 0,1 gram serbuk Mg, dan 1 ml HCl p dan 2 ml amil alkohol, dikocok, biarkan memisah (Franswort, 1966) | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.14.22.jpeg | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.14.23 (2).jpeg | + | Terbentuk lapisan jingga-merah pada lapisan alkohol  (Franswort, 1966). |

**Lampiran 20**. (lanjutan)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 3. | Tanin | 0,5 gram sampel + 10 ml aquades, dikocok, disaring, diambil 2 ml larutan + 1 tts FeCl3 (Depkes RI, 1995). | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.14.23 (1).jpeg | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.14.23 (3).jpeg | + | Terbentuk Larutan biru pekat (Depkes RI, 1995). |
| 4. | saponin | 0,5gram sampel + 10 ml air panas, dinginkan, kocok kuat selama 10 detik. + HCl  (Depkes RI, 1995). | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.14.21 (1).jpeg | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.14.22.jpeg | \_ | Tidak terbentuk busa yang stabil  (Depkes RI, 1995). |
| 5. | Glikosida antrakuinon | 0,1 gram sampel + 5 ml benzen, dikocok, diamkan, lapisan benzen dipisahkan + 1 ml NaOH 2N, kocok dan diamkan  (Depkes RI, 1995). | C:\Users\Windows 8\Downloads\skrining serbuk BM\WhatsApp Image 2020-05-18 at 11.54.15.jpeg | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.53.37.jpeg | \_ | Tidak terbentuk lapisan air bewarna merah  (Depkes RI, 1995). |

**Lampiran 20**. (lanjutan)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 6. | Steroid/  Triterpenoid | 0,5 gram sampel + 10 ml eter dimaserasi selama 2 jam, disaring. Filrat diuapkan dalam cawan penguap + 5 tts H2SO4 p + 5 tts asam asetat anhidrat (pereaksi liberman-burchard) (Depkes RI, 1995). | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.15.38.jpeg | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.15.40.jpeg | + | Terbentuk warna hijau kehitaman (steroid) (Depkes RI, 1995). |

**Lampiran 20.** (lanjutan)

1. **Ekstrak kulit bawang putih**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **No** | **Golongan senyawa** | **Perlakuan** | **Gambar** | | **Hasil Uji** | **Keterangan** |
| **Serbuk** | **Ekstrak** |
| 1. | alkaloid | 0,5 gram sampel + 1 ml HCl 2N + Aquadest 4,5 ml, dipanaskan 2 menit, dinginkan, disaring. Filtrat dibagi 3 bagian, masing-masing ditambah 2 tetes :   1. Mayer 2. Dragendrof 3. Buochardat   (Depkes RI, 1995) |  | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.14.24.jpeg | + | 1. Mayer   Tidak terbentuk endapan putih  (-)   1. Dragendrof   Terbentuk endapan merah – merah kecoklatan (+)  (Depkes RI, 1995)   1. Buochardat   Terbentuk larutan merah kekuningan (+)  (Depkes RI, 1995) |
| 2. | Flavonoid | 1gram smpel +10 ml air, didihkan selama 5 menit, disaring. Diambil 5 ml filtrat + 0,1 gram serbuk Mg, dan 1 ml HCl p dan 2 ml amil alkohol, dikocok, biarkan memisah (Franswort, 1966) | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.14.21.jpeg | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.15.38 (1).jpeg | + | Terbentuk lapisan jingga-merah pada lapisan alkohol  (Franswort, 1966). |

**Lampiran 20.** (lanjutan)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 3. | Tanin | 0,5 gram sampel + 10 ml aquades, dikocok, disaring, diambil 2 ml larutan + 1 tts FeCl3 (Depkes RI, 1995). | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.14.22 (1).jpeg | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.14.22.jpeg | \_ | Tidak terbentuk Larutan biru pekat (Depkes RI, 1995). |
| 4. | saponin | 0,5gram sampel + 10 ml air panas, dinginkan, kocok kuat selama 10 detik. + HCl  (Depkes RI, 1995). | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.14.23.jpeg | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.15.39.jpeg | \_ | Tidak terbentuk busa yang stabil  (Depkes RI, 1995). |
| 5. | Glikosida antrakuinon | 0,1 gram sampel + 5 ml benzen, dikocok, diamkan, lapisan benzen dipisahkan + 1 ml NaOH 2N, kocok dan diamkan  (Depkes RI, 1995). | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.54.15.jpeg | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 12.59.56.jpeg | + | Terbentuk lapisan air bewarna merah  (Depkes RI, 1995). |

**Lampiran 20**. (lanjutan)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 6. | Steroid/  Triterpenoid | 0,5 gram sampel + 10 ml eter dimaserasi selama 2 jam, disaring. Filrat diuapkan dalam cawan penguap + 5 tts H2SO4 p + 5 tts asam asetat anhidrat (pereaksi liberman-burchard) (Depkes RI, 1995). | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.15.38.jpeg | C:\Users\Windows 8\Downloads\WhatsApp Image 2020-05-18 at 11.15.38.jpeg | + | Terbentuk warna hijau kehitaman (steroid) (Depkes RI, 1995). |

**Lampiran 21**. Kulit Bawang Merah (*Allium cepa* L.) dan Kulit Bawang Putih (*Allium sativum* L.)



Kulit Bawang Merah



Kulit Bawang Putih

**Lampiran 22**. Seruk dan Ekstrak Kulit Bawang Merah (*Allium cepa* L.) dan Kulit Bawang Putih (*Allium sativum* L.)

Serbuk Kulit Bawang Merah Ekstrak Kulit Bawang Merah

Serbuk Kulit Bawang Putih Ekstrak Kulit Bawang Putih

**Lampiran 23**. Alat Spektrofotometer UV-Vis



Spektrofotometer UV-Vis



Kuvet

**Lampiran 24**.Penentuan Nilai SPF Gel Tabir Surya Ekstrak Etanol Kulit Bawang Merah (*Allium cepa* L.) dan Kulit Bawang Putih (*Allium sativum* L.)

Larutan Gel Ekstrak Etanol Kulit Bawang Merah dalam kuvet

Pengenceran Gel Ekstrak Etanol Kulit Bawang Merah

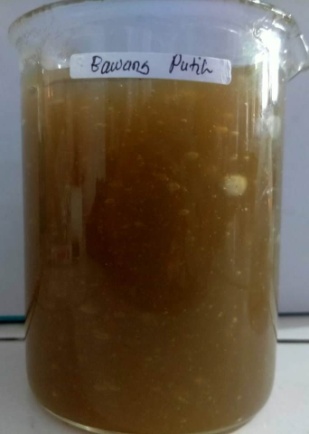
Pengenceran Gel Ekstrak Etanol Kulit Bawang Putih

Larutan Gel Ekstrak Etanol Kulit Bawang Putih

dalam kuvet

**Lampiran 25.** Evaluasi Sediaan Gel Tabir Surya Ekstrak Etanol Kulit Bawang Merah (*Allium cepa* L.) dan Kulit Bawang Putih (*Allium sativum* L.)

1. Organoleptis

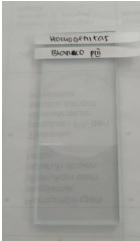
  

Blanko

Gel Tabir Surya Ekstrak Etanol Kulit Bawang Putih

Gel Tabir Surya Ekstrak Etanol Kulit Bawang Merah

1. Homogenitas

Gel Tabir Surya Ekstrak Etanol Kulit Bawang Putih

Gel Tabir Surya Ekstrak Etanol Kulit Bawang Merah

Blanko

**Lampiran 25.** (lanjutan)

1. Pengukuran pH

Gel Tabir Surya Ekstrak Etanol Kulit Bawang Putih

Gel Tabir Surya Ekstrak Etanol Kulit Bawang Merah

Blanko

1. Pengukuran Viskositas

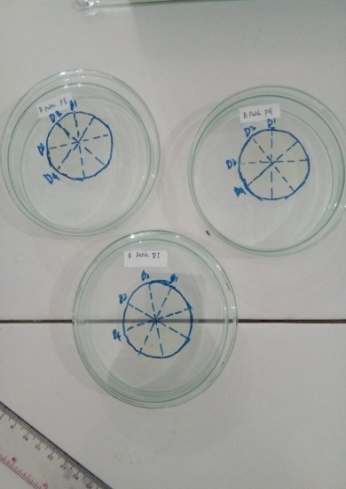
Gel Tabir Surya Ekstrak Etanol Kulit Bawang Putih

Gel Tabir Surya Ekstrak Etanol Kulit Bawang Merah

Blanko

**Lampiran 25.** (lanjutan)

1. Pengukuran Daya Sebar

Gel Tabir Surya Ekstrak Etanol Kulit Bawang Putih

Gel Tabir Surya Ekstrak Etanol Kulit Bawang Merah

Blanko

**Lampiran 26**. Sediaan Gel Tabir Surya Ekstrak Etanol Kulit Bawang Merah (*Allium cepa* L.) dan Kulit Bawang Putih (*Allium sativum* L.)

