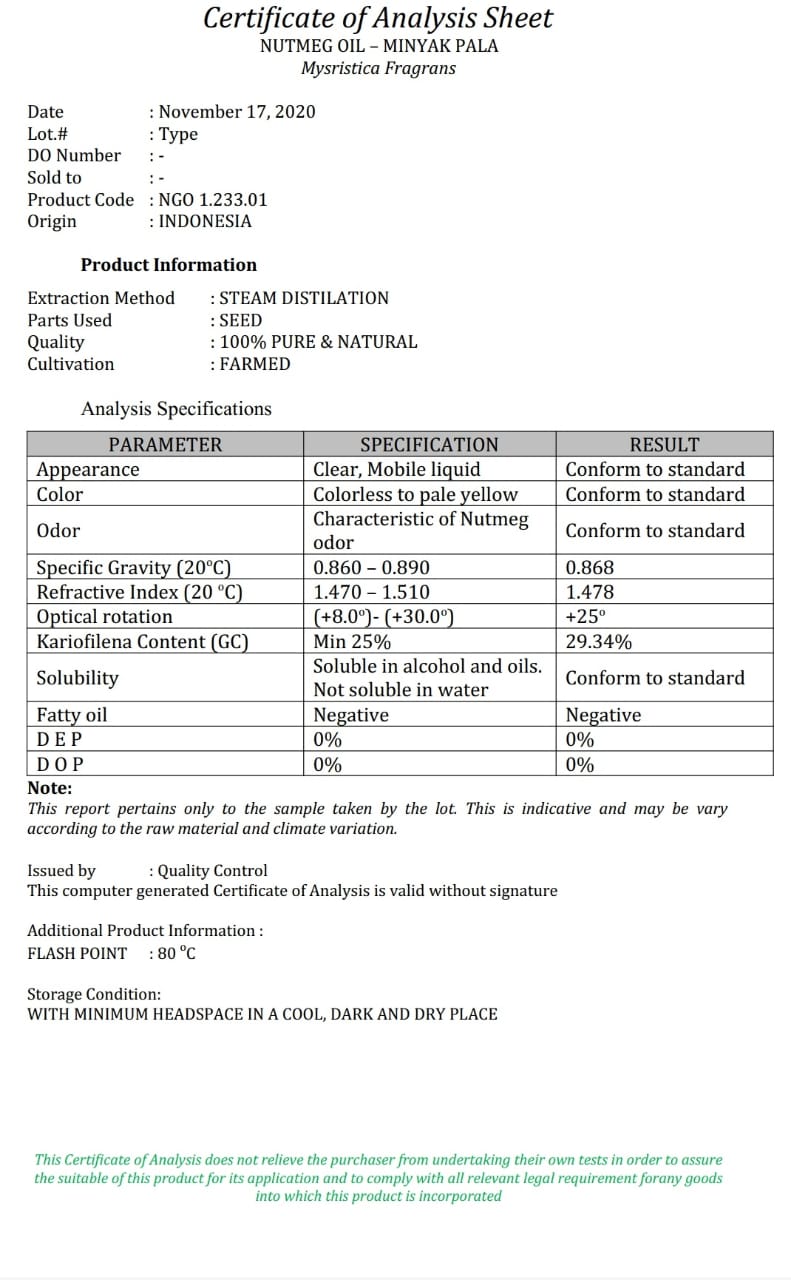
**Lampiran 1.** SertifikatHasil Identifikasi Minyak Atsiri Biji Pala



**Lampiran 2.** Bagan Alir Pembuatan Sumbu Lilin Aromatik

Paraffin Padat + Asam Stearat + Benang Katun

Paraffin dan Asam stearat dimasukkan ke dalam cawan

Dilebur Paraffin dan Asam Stearat

Dicelupkan Benang Katun selamat 10 detik

Diamkan Selama 10 Menit

Dikeringkan

Sumbu Lilin

**Lampiran 3**. Bagan Alir Pembuatan Lilin Aromaterapi

Paraffin Padat + As.Stearat + Pewarna

Dimasukkan dalam beaker glass

Dilebur diatas hot plate

Dimasukkan minyak atsiri

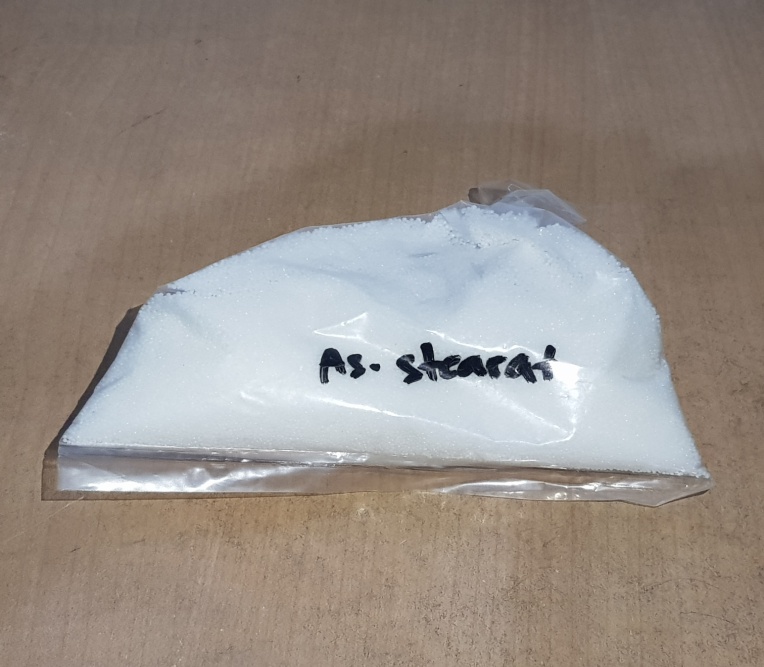
Diaduk

Dituang ke cetakan didiamkan

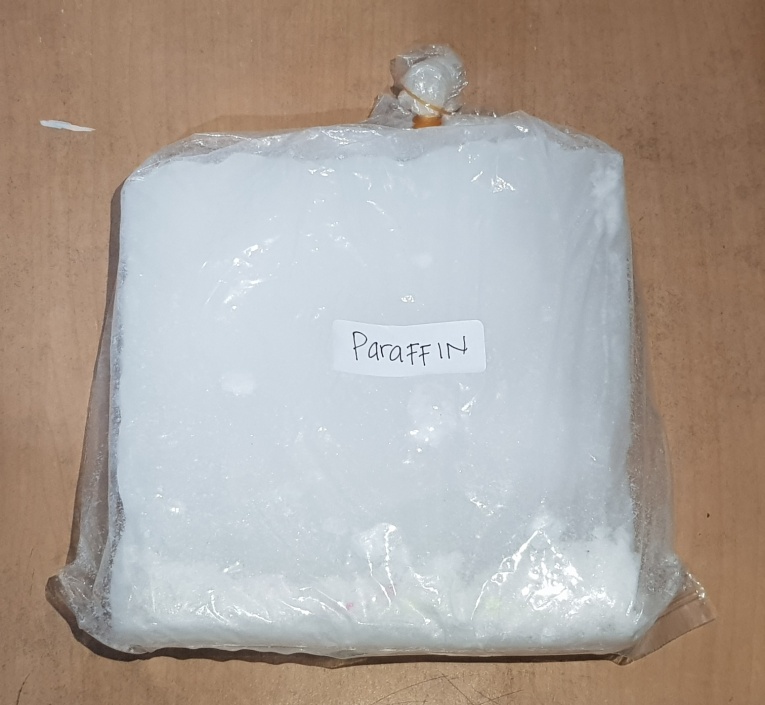
sampai mengeras

Lilin Aromaterapi

**Lampiran 4.** Bahan Yang Digunakan

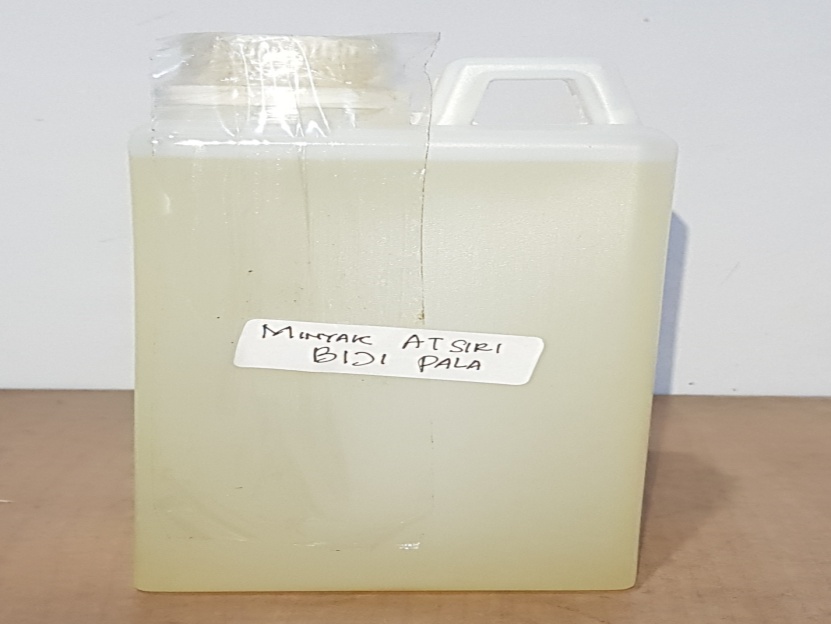


* 1. Asam Stearat



* 1. Paraffin

**Lampiran 5.** Bahan yang Digunakan

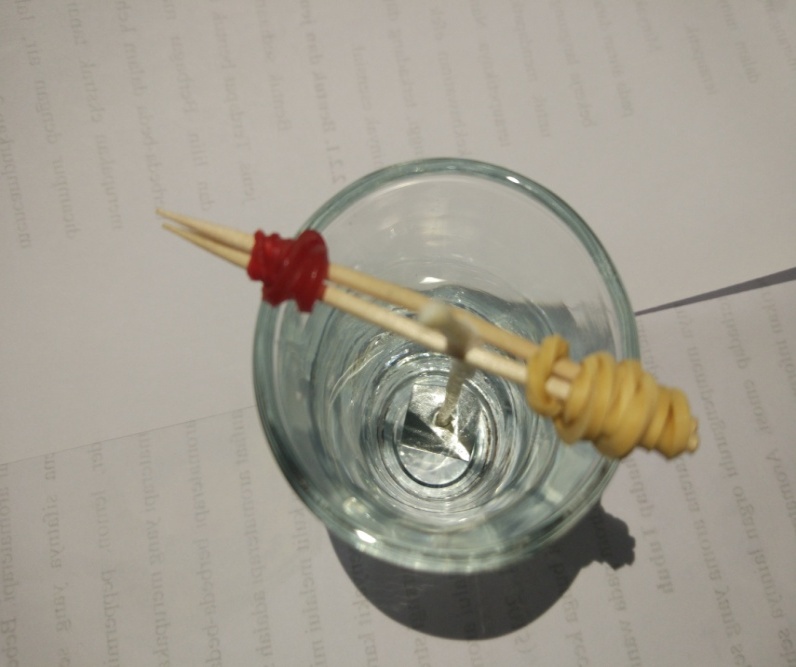


* 1. Minyak Atsiri Biji Pala

**Lampiran 6.**Pembuatan Lilin Aromaterapi

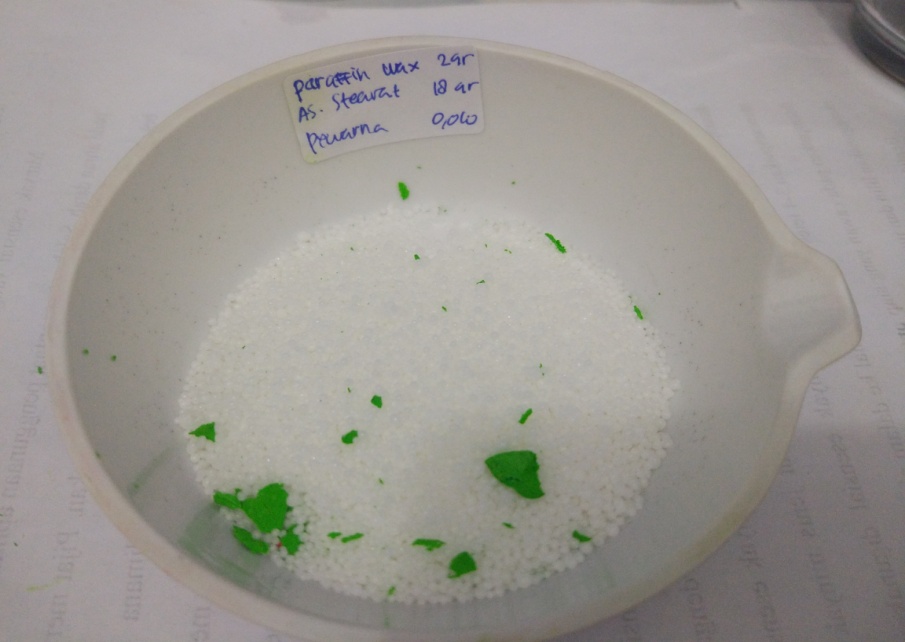


a. Sumbu Lilin



b. Cetakan Lilin Yang Telah Dilengkapi Sumbu

**Lampiran 7.** Pembuatan Lilin Aromaterapi



c.Paraffin, as. Stearat, pewarna



1. Paraffin, as.stearat,dan pewarna yang telah di panaskan.

**Lampiran 8.** Pembuatan Lilin Aromaterapi

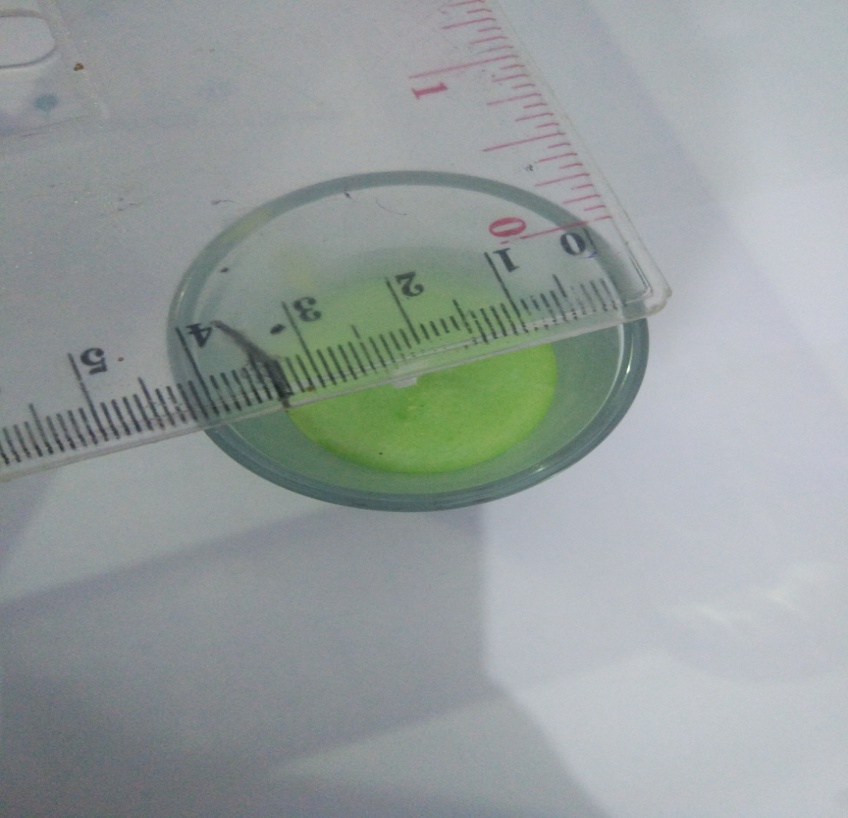


1. Penuangan Bahan Kedalam Cetakan



1. Sediaan Lilin Yang Telah Terbentuk

**Lampiran 9.** Panjang dan Diameter Lilin



1. Diameter Lilin



1. Panjang Lilin

**Lampiran 10.** Uji Nyala Api Pada Lilin

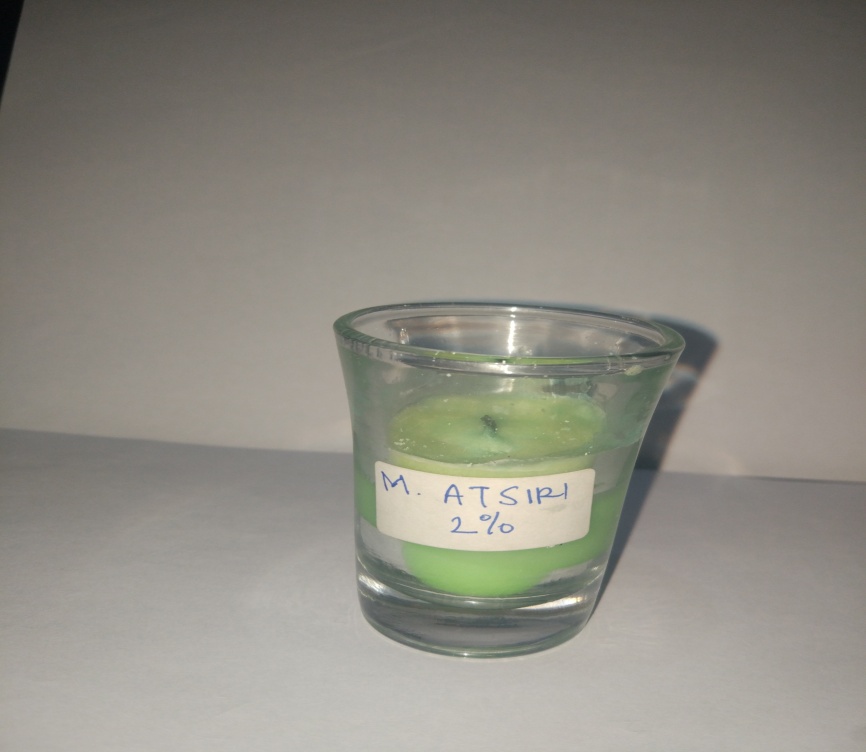


Uji Nyala Api

**Lampiran 11.** Hasil Formulasi Lilin Aromaterapi



a. Lilin Dengan Konsentrasi 0 ( Blanko)



b. Lilin Dengan Kosentrasi 2%

**Lampiran 12.**Hasil Formulasi Lilin Aromaterapi



1. Lilin Dengan konsentrasi 4%



1. Lilin Dengan Konsentrasi 6%

**Lampiran 13.** Surat Penyataan Sebagai Panelis

**SURAT PERNYATAAN**

Saya yang bertanda tangan di bawah ini:

Nama :

Umur :

Alamat :

Menyatakan bersedia menjadi panelis untuk uji hedonic/kesukaan dalam penelitian Vika Natalia Sijabat dengan judul “ Pemanfaatan Minyak Atsiri Biji Pala *(*M*yristica* f*ragrans* H) Sebagai Sediaan Lilin Aromaterapi.”

Persetujuan ini saya buat dengan penuh kesadaran dan tanpa paksaan dari pihak manapun. Demikian surat pernyataan ini dibuat untuk dapat digunakan sebagaimana mestinya.

Medan,November 2020

Panelis

(Nama Lengkap)

**Lampiran 14.** Soal Uji Hedonic.

Lembar Kuisioner Uji Kesukaan Warna, Aroma, dan Tekstur Terhadap Lilin aromaterapi Biji Pala (*Myristica fragrans* H)

Nama :

Umur :

Dihadapan saudara disajikan 4 sampel lilin aromaterapi, saudara diminta memberikan penilaian terhadap warna dengan cara dilihat, aroma dengan cara dicium/dihirup, dan tekstur dengan cara dipegang.

|  |  |  |  |
| --- | --- | --- | --- |
| Kode | Warna | Aroma | Tekstur |
| F0 |  |  |  |
| F1 |  |  |  |
| F2 |  |  |  |
| F3 |  |  |  |

Keterangan :

1 = tidak suka/tidak menarik

2 = kurang suka/kurang menarik

3 = suka/menarik

**Lampiran 15.** Hasil Uji Hedonik

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Panelis | Hasil Uji Kesukaan Warna Pada F0 | | | | | |
| Kode | | Nilai  kesukaan (X) | | (Xi - X̅) | (Xi - X̅)2 |
|
| 1 | 3 | | 3 | | 0,3000 | 0,0900 |
| 2 | 3 | | 3 | | 0,3000 | 0,0900 |
| 3 | 3 | | 3 | | 0,3000 | 0,0900 |
| 4 | 2 | | 2 | | -0,7000 | 0,4900 |
| 5 | 3 | | 3 | | 3,0000 | 9,0000 |
| 6 | 3 | | 3 | | 0,3000 | 0,0900 |
| 7 | 2 | | 2 | | -0,7000 | 0,4900 |
| 8 | 3 | | 3 | | 0,3000 | 0,0900 |
| 9 | 3 | | 3 | | 0,3000 | 0,0900 |
| 10 | 3 | | 3 | | 0,3000 | 0,0900 |
| 11 | 3 | | 3 | | 0,3000 | 0,0900 |
| 12 | 3 | | 3 | | 0,3000 | 0,0900 |
| 13 | 2 | | 2 | | -0,7000 | 0,4900 |
| 14 | 2 | | 2 | | -0,7000 | 0,4900 |
| 15 | 2 | | 2 | | -0,7000 | 0,4900 |
| 16 | 3 | | 3 | | 0,3000 | 0,0900 |
| 17 | 3 | | 3 | | 0,3000 | 0,0900 |
| 18 | 3 | | 3 | | 0,3000 | 0,0900 |
| 19 | 3 | | 3 | | 0,3000 | 0,0900 |
| 20 | 2 | | 2 | | -0,7000 | 0,4900 |
| Nilai kesukaan rata-rata | | | | | Nilai total | 13,1100 |
| 2,7000 | | | | |  | |
|  | |  | |

Standar devisiasi (SD) =

(SD) =

Standar Devisiasi (SD) = 0,8307

Rentang Nilai Kesukaan dari F(0)=(X̅) – 0,8307 ≥µ≤ (X̅) + 0,8307

= 2,7000-0,8307 ≥µ≤ 2,7000 + 0,8307

= 1,8693≥µ≤ 3,5307

**Lampiran 16.** Data Hasil Uji Kesukaan Warna Pada f(0)-F(3)

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Panelis | Data Hasil Uji Kesukaan Warna dari Sediaan | | | | | | | | | | |
| Lilin F0  ( Blanko) | | Lilin F1  (2) | | | Lilin F2  (4%) | | | Lilin F3  (6%) | | |
| Kode | Nilai | | Kode | Nilai | | Kode | Nilai | | Kode | Nilai |
| 1 | 3 | 3 | | 2 | 2 | | 3 | 3 | | 3 | 3 |
| 2 | 3 | 3 | | 3 | 3 | | 3 | 3 | | 3 | 3 |
| 3 | 3 | 3 | | 2 | 2 | | 2 | 2 | | 3 | 3 |
| 4 | 2 | 2 | | 2 | 2 | | 3 | 3 | | 3 | 3 |
| 5 | 3 | 3 | | 2 | 2 | | 3 | 3 | | 3 | 3 |
| 6 | 3 | 3 | | 1 | 1 | | 2 | 2 | | 3 | 3 |
| 7 | 2 | 2 | | 2 | 2 | | 2 | 2 | | 3 | 3 |
| 8 | 3 | 3 | | 2 | 2 | | 2 | 2 | | 3 | 3 |
| 9 | 3 | 3 | | 2 | 2 | | 3 | 3 | | 3 | 3 |
| 10 | 3 | 3 | | 3 | 3 | | 3 | 3 | | 3 | 3 |
| 11 | 3 | 3 | | 2 | 2 | | 3 | 3 | | 3 | 3 |
| 12 | 3 | 3 | | 2 | 2 | | 3 | 3 | | 3 | 3 |
| 13 | 2 | 2 | | 3 | 3 | | 3 | 3 | | 3 | 3 |
| 14 | 2 | 2 | | 3 | 3 | | 2 | 2 | | 2 | 2 |
| 15 | 2 | 2 | | 2 | 2 | | 2 | 2 | | 2 | 2 |
| 16 | 3 | 3 | | 2 | 2 | | 2 | 2 | | 3 | 3 |
| 17 | 3 | 3 | | 2 | 2 | | 2 | 2 | | 3 | 3 |
| 18 | 3 | 3 | | 1 | 1 | | 3 | 3 | | 3 | 3 |
| 19 | 3 | 3 | | 3 | 3 | | 3 | 3 | | 3 | 3 |
| 20 | 2 | 2 | | 3 | 3 | | 3 | 3 | | 3 | 3 |
| Total | 13,1100 | | | 11,1600 | | | 13,6400 | | | 10,7900 | |
| Rata-  rata | 2,7000 | | | 2,2000 | | | 2,6000 | | | 2,9000 | |
| Standar  deviasi | 0,8307 | | | 0,7664 | | | 0,8473 | | | 0,7536 | |
| Rentang  nilai | 1,8693 sampai  3,5307 | | | 1,4336 sampai  2,9644 | | | 1,7527 sampai  3,4473 | | | 2,1464 sampai  3,6536 | |

**Lampiran 17.** Data Hasil Uji Kesukaan Aroma Pada F(0) – F(3)

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Panelis | Data Hasil Uji Kesukaan bentuk dari Sediaan | | | | | | | |
| Lilin F0  ( Blanko) | | Lilin F1  (2) | | Lilin F2  (4%) | | Lilin F3  (6%) | |
| Kode | Nilai | Kode | Nilai | Kode | Nilai | Kode | Nilai |
| 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 |
| 2 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 |
| 3 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 |
| 4 | 1 | 1 | 3 | 3 | 2 | 2 | 2 | 2 |
| 5 | 1 | 1 | 1 | 1 | 2 | 2 | 3 | 3 |
| 6 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 |
| 7 | 1 | 1 | 3 | 3 | 2 | 2 | 3 | 3 |
| 8 | 2 | 2 | 1 | 1 | 1 | 1 | 2 | 2 |
| 9 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 3 |
| 10 | 2 | 2 | 1 | 1 | 2 | 2 | 3 | 3 |
| 11 | 2 | 2 | 1 | 1 | 1 | 1 | 3 | 3 |
| 12 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 |
| 13 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 |
| 14 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| 15 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 |
| 16 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 17 | 2 | 2 | 3 | 3 | 2 | 2 | 3 | 3 |
| 18 | 2 | 2 | 1 | 1 | 2 | 2 | 2 | 2 |
| 19 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 3 |
| 20 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 3 |
| Total | 5,7475 | | 11,4400 | | 13,1600 | | 1,4275 | |
| Rata-  rata | 1,4500 | | 1,6000 | | 1,8000 | | 2,6500 | |
| Standar  deviasi | 0,5500 | | 0,7760 | | 0,8322 | | 0,8407 | |
| Rentang  nilai | 0,9000 sampai  2,0000 | | 0,8240 sampai  2,3760 | | 0,9678 sampai  2,6322 | | 1,8093 sampai  3,4907 | |

**Lampiran 18.**  Data Hasil Uji Kesukaan Bentuk Pada F(0) – F(3)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Panelis | Data Hasil Uji Kesukaan bentuk dari Sediaan | | | | | | | | | |
| Lilin F0  ( Blanko) | | Lilin F1  (2) | | | Lilin F2  (4%) | | | Lilin F3  (6%) | |
| Kode | Nilai | Kode | Nilai | Kode | | Nilai | Kode | | Nilai |
| 1 | 2 | 2 | 3 | 3 | 3 | | 3 | 2 | | 2 |
| 2 | 3 | 3 | 2 | 2 | 2 | | 2 | 2 | | 2 |
| 3 | 2 | 2 | 3 | 3 | 2 | | 2 | 2 | | 2 |
| 4 | 1 | 1 | 2 | 2 | 1 | | 1 | 1 | | 1 |
| 5 | 2 | 2 | 1 | 1 | 2 | | 2 | 2 | | 2 |
| 6 | 3 | 3 | 3 | 3 | 1 | | 1 | 2 | | 2 |
| 7 | 1 | 1 | 3 | 3 | 3 | | 3 | 1 | | 1 |
| 8 | 2 | 2 | 2 | 2 | 1 | | 1 | 3 | | 3 |
| 9 | 1 | 1 | 2 | 2 | 1 | | 1 | 1 | | 1 |
| 10 | 1 | 1 | 1 | 1 | 2 | | 2 | 2 | | 2 |
| 11 | 2 | 2 | 2 | 2 | 1 | | 1 | 2 | | 2 |
| 12 | 1 | 1 | 3 | 3 | 2 | | 2 | 1 | | 1 |
| 13 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | | 2 |
| 14 | 2 | 2 | 1 | 1 | 3 | | 3 | 3 | | 3 |
| 15 | 2 | 2 | 3 | 3 | 3 | | 3 | 2 | | 2 |
| 16 | 2 | 2 | 3 | 3 | 1 | | 1 | 1 | | 1 |
| 17 | 2 | 2 | 1 | 1 | 3 | | 3 | 2 | | 2 |
| 18 | 2 | 2 | 2 | 2 | 1 | | 1 | 2 | | 2 |
| 19 | 2 | 2 | 2 | 2 | 2 | | 2 | 2 | | 2 |
| 20 | 2 | 2 | 1 | 1 | 1 | | 1 | 1 | | 1 |
| Total | 10,5275 | | 11,5900 | | 16,5275 | | | 11,1600 | | |
| Rata  -rata | 1,8500 | | 2,1000 | | 1,8500 | | | 1,8000 | | |
| Standar  deviasi | 0,7444 | | 0,7810 | | 0,9372 | | | 0,7664 | | |
| Rentang  nilai | 1,1056 sampai  2,5944 | | 1,3190 sampai  2,8810 | | 0,9173 sampai  2,7827 | | | 1,0336 sampai  2,5664 | | |