

## **LAMPIRAN**

Lampiran 1. Alat dan Bahan



## Lampiran 2. Pembuatan *Lip Balm*



### Penimbangan Bahan



### Peleburan Bahan dan Hasil *lip balm* setelah penuangan

Lampiran 3. Hasil Uji Kadar Asam Lemak



Hasil Pembakuan NaOH



Hasil Uji Kadar Asam Lemak

Lampiran 4. Hasil Uji Organoleptik



Lampiran 5. Hasil Uji Homogenitas



Lampiran 6. Hasil Uji pH



Lampiran 7. Hasil Uji Daya Sebar dan Daya Lekat



Hasil Uji Daya Sebar dan Daya Lekat

| Formula | Daya Sebar (cm) |     |     | Rata-rata |
|---------|-----------------|-----|-----|-----------|
| F1      | 4,3             | 4,5 | 4,5 | 4,43      |
| F2      | 5               | 5   | 4,8 | 4,93      |
| F3      | 5               | 5   | 5   | 5         |

Data Hasil Uji Daya Sebar

| Formula | Daya Lekat (detik) |      |      | Rata-rata |
|---------|--------------------|------|------|-----------|
| F1      | 4,15               | 4,34 | 4,27 | 4,25      |
| F2      | 4,75               | 4,52 | 4,93 | 4,73      |
| F3      | 6,28               | 5,96 | 6,09 | 6,11      |

Data Hasil Uji Daya Lekat

Lampiran 8. Hasil Uji Iritasi Pada Kelinci



Lampiran 9. Hasil Uji Daya Lembap



## Lampiran 10 Surat Kaji Etik



**Kementerian Kesehatan**  
**Direktorat Jenderal**  
**Sumber Daya Manusia Kesehatan**  
 Politeknik Kesehatan Tasikmalaya  
 Jalan Babakan Siliwangi No.35, Kahuripan, Tawang  
 Tasikmalaya, Jawa Barat 46115  
 ☎ (0265) 340186  
 🌐 <https://poltekkestasikmalaya.ac.id>

**KETERANGAN LAYAK ETIK**  
**DESCRIPTION OF ETHICAL APPROVAL**  
**"ETHICAL APPROVAL"**

No.DP.04.03/F.XVIII.1.3.1/939/2026

Protokol penelitian versi 2 yang diusulkan oleh :  
*The research protocol proposed by*

Peneliti utama : Dea Argyanti  
*Principal In Investigator*

Nama Institusi : Poltekkes Tasikmalaya  
*Name of the Institution*

Dengan judul:  
*Title*

**"Formulasi Sediaan Lip Balm dari Virgin Coconut Oil dengan Basis Lemak Tengawang (Illipe Butter) "**

*"Formulation of Lip Balm Preparation Containing Virgin Coconut Oil with Illipe Butter Base"*

Dinyatakan layak etik sesuai 7 (tujuh) Standar WHO 2011, yaitu 1) Nilai Sosial, 2) Nilai Ilmiah, 3) Pemerataan Beban dan Manfaat, 4) Risiko, 5) Bujukan/Eksploitasi, 6) Kerahasiaan dan Privacy, dan 7) Persetujuan Setelah Penjelasan, yang merujuk pada Pedoman CIOMS 2016. Hal ini seperti yang ditunjukkan oleh terpenuhinya indikator setiap standar.

*Declared to be ethically appropriate in accordance to 7 (seven) WHO 2011 Standards, 1) Social Values, 2) Scientific Values, 3) Equitable Assessment and Benefits, 4) Risks, 5) Persuasion/Exploitation, 6) Confidentiality and Privacy, and 7) Informed Consent, referring to the 2016 CIOMS Guidelines. This is as indicated by the fulfillment of the indicators of each standard.*

Pernyataan Laik Etik ini berlaku selama kurun waktu tanggal 24 Juni 2026 sampai dengan tanggal 24 Juni 2027.

*This declaration of ethics applies during the period June 24, 2026 until June 24, 2027.*



June 24, 2026  
 Chairperson,

Dr. Imat Rochimat SKM., MM

# Lampiran 11 Surat Keterangan Selesai Revisi Karya Tulis Ilmiah



## Kementerian Kesehatan

Poltekkes Tasikmalaya

Jalan Babakan Siliwangi No.35, Kahuripan, Tawang  
Tasikmalaya, Jawa Barat 46115

(0265) 340186

<https://poltekkestasikmalaya.ac.id>

### Surat Keterangan Selesai Revisi Hasil Karva Tulis Ilmiah

Yang bertanda tangan di bawah ini menerangkan bahwa :

Nama : Dea Argyanti

N I M : P20630123008

Judul KTI : "Formulasi Sediaan Lip Balm dari Virgin Coconut Oil dengan Basis Lemak  
Tengkawang (Illipe Butter)"

Adalah benar telah menyelesaikan Revisi Karya Tulis Ilmiah Jurusan Farmasi Poltekkes Kemenkes Tasikmalaya pada bulan Juni 2026. Demikianlah, Surat Keterangan ini dibuat untuk dapat dipergunakan sebagaimana mestinya.

| No. | Nama Penguji                           | NIP/NIPK           | Tanda Tangan |
|-----|----------------------------------------|--------------------|--------------|
| 1.  | apt. Nooryza Martihandini, M. Farm     | 198703082010122002 | 1.           |
| 2.  | Dr. apt. Nur Aji, M. Farm              | 198906092025211079 | 2.           |
| 3.  | apt. Shandra Isasi Sutiswa, M.S., Farm | 198205092003122003 | 3.           |



## Lampiran 13. CoA Butil Hidroksi Toluena



**QUALITY ASSURANCE DEPARTMENT  
CERTIFICATE OF ANALYSIS**

|                     |                                       |
|---------------------|---------------------------------------|
| Name of the Product | BUTYLATED HYDROXY TOLUENE             |
| Batch No            | GHT0221005                            |
| Batch Size          | 2000.10 KG                            |
| Manufacturing Date  | JULY - 2022                           |
| Best Before         | JUNE - 2024                           |
| Marketed By         | Camlin Fine Sciences Limited, Tarapur |
| Certificate No      | BHT - GHT0221005                      |

| Sr. No. | Tests                | Observations                                                          | Specifications                                                        |
|---------|----------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| 1       | DESCRIPTION          | White Crystalline solid                                               | White Crystalline solid                                               |
| 2       | SOLUBILITY           | Soluble in alcohol & in oils.<br>Insoluble in water, propylene glycol | Soluble in alcohol & in oils.<br>Insoluble in water, propylene glycol |
| 3       | IDENTIFICATION       | Complies                                                              | Positive                                                              |
| 4       | RESIDUE ON IGNITION  | 0.0009%                                                               | Max. 0.002%                                                           |
| 5       | SOLIDIFICATION POINT | 70.7°C                                                                | NLT 69.2°C                                                            |
| 6       | PURITY (ASSAY)       | 99.88%                                                                | Min. 99%                                                              |

Remarks: The above-mentioned batch confirms with above specifications.

Approved By    
**B.L. Arekar**  
 D.G.M. - Q.A., QMS & FSMS

## Lampiran 14. CoA Virgin Coconut Oil



24 CHATHAM PLACE, BRIGHTON BN1 3TN (UK)

TEL.(UK) 0845 310 8066 FAX.(UK) 0845 310 8068

International Tel. +44 1273 746505 Int. Fax. +44 1273 202729 EMAIL:  
info@nhrorganicolls.com Web Site: [www.nhrorganicolls.com](http://www.nhrorganicolls.com)

### *Certificate Of Analysis Sheet* **Organic Coconut Oil Virgin** **(Cocos nucifera)**

|                          |                           |
|--------------------------|---------------------------|
| <b>Appearance:</b>       | White semi-solid to solid |
| <b>Odour :</b>           | Characteristic of coconut |
| <b>Free Fatty Acid :</b> | 0.04                      |
| <b>Iodine value :</b>    | 6                         |
| <b>Peroxide value :</b>  | 0.1                       |
| <b>Melting point :</b>   | N/D                       |
| <b>Flash point :</b>     | > 300                     |
| <b>Acid value :</b>      | 0.08                      |

#### **FATTY AID PROFILE :**

|                        |      |
|------------------------|------|
| <b>CAPROIC C 6:0</b>   | 0.5  |
| <b>CAPRYLIC C 8:0</b>  | 7.2  |
| <b>CAPRIC C 10:0</b>   | 5.9  |
| <b>LAURIC C 12:0</b>   | 48.9 |
| <b>MYRISTIC C 14:0</b> | 19.5 |

Shelf life of this product is influenced by many conditions of which temperature, exposure to light / air and general good storage are the major factors. Material stored in adverse conditions may deteriorate much faster. Our suggested "Re-test" date shown on this certificate reflects a minimum period in which we would expect product to remain in good usable conditions if stored as recommended. Thereafter its continued shelf life may be very much longer and we advise re-test at the indicated date and then every 3-6 months up to a suggested commercial expiry date as shown below. The expiry date is subjective and should be controlled by QC/QA. Typical indicators of re-test failure would be changes in organoleptic properties (clarity / colour / sediment / haze / off odour etc) Such changes may be gradual and slight and the commercial expiry date is intended to reflect a viable maximum proposal subject to earlier re-test approvals.

## Lampiran 15. Desain Kemasan



## Lampiran 16 CV penulis



1. Nama Lengkap : Dea Argiyanti
2. Tempat dan Tanggal Lahir : Bandung, 11 Mei 2005
3. Agama : Islam
4. Alamat Asal : Desa Purwawinangun, Rt/Rw 005/003,  
Blok Kecitran Wetan, Kecamatan  
Suranenggala, Kabupaten Cirebon 45159
5. Nomor Telepon : 087773287220
6. E-mail : deaargiyanti11@gmail.com
7. Judul Penelitian : Formulasi Sediaan *Lip Balm* dari *Virgin Coconut Oil* dengan Basis Lemak  
Tengkawang (*Illipe Butter*)

## Riwayat Pendidikan :

- |                                   |                                                  |
|-----------------------------------|--------------------------------------------------|
| Sekolah Dasar                     | : SDN 2 Karangreja                               |
| Sekolah Menengah Pertama<br>(SMP) | : SMPN 1 Suranenggala                            |
| Sekolah Menengah Atas (SMA)       | : MAN 1 Kota Cirebon                             |
| Perguruan Tinggi                  | : DIII-Farmasi Poltekkes Kemenkes<br>Tasikmalaya |