

## Lampiran 1. Data Hasil Optimasi Basis

## a. Hasil Uji pH

| <b>Formula</b> | <b>Batch 1</b> | <b>Batch 2</b> | <b>Batch 3</b> | <b>Rata-rata</b> | <b>SD</b> | <b>keterangan</b> |
|----------------|----------------|----------------|----------------|------------------|-----------|-------------------|
| Formula 0      | 6,2            | 6,11           | 6,3            | 6,20             | 6.2       | Memenuhi Syarat   |
| Formula 1      | 6,55           | 6,51           | 6,5            | 6,52             | 6.52      | Memenuhi syarat   |
| Formula 2      | 6,49           | 6,52           | 6,5            | 6,50             | 6.5       | Memenuhi syarat   |
| Formula 3      | 6,57           | 6,53           | 6,6            | 6,56             | 6.56      | Memenuhi syarat   |

## b. Hasil Uji Daya Sebar

| <b>Formula</b> | <b>Batch 1</b> | <b>Batch 2</b> | <b>Batch 3</b> | <b>Rata-rata</b> | <b>SD</b> | <b>keterangan</b>     |
|----------------|----------------|----------------|----------------|------------------|-----------|-----------------------|
| Formula 0      | 5,9            | 5,6            | 5,5            | 5,6              | 0.208     | Memenuhi Syarat       |
| Formula 1      | 5              | 5,1            | 5,125          | 5,04             | 0.066     | Memenuhi Syarat       |
| Formula 2      | 4,7            | 4,75           | 4,6            | 4,68             | 0.076     | Tidak Memenuhi syarat |
| Formula 3      | 4,2            | 4,22           | 4,27           | 4,23             | 0.036     | Tidak Memenuhi Syarat |

## c. Hasil Viskositas

| <b>Formula</b> | <b>Batch 1</b> | <b>Batch 2</b> | <b>Batch 3</b> | <b>Rata-rata</b> | <b>SD</b> | <b>keterangan</b> |
|----------------|----------------|----------------|----------------|------------------|-----------|-------------------|
| Formula 0      | 18600          | 18400          | 19800          | 18933            | 757.19    | Memenuhi Syarat   |
| Formula 1      | 19800          | 19256          | 18567          | 19007            | 617.92    | Memenuhi syarat   |
| Formula 2      | 22000          | 21867          | 20000          | 21289            | 1,118.29  | Memenuhi syarat   |
| Formula 3      | 25467          | 25334          | 24671          | 25157            | 426.39    | Memenuhi syarat   |

## Lampiran 2. Dokumentasi Pengolahan Sampel



### Lampiran 3. Dokumentasi hasil evaluasi optimasi basis

#### Uji Organoleptik



#### Uji homogenitas



#### Uji pH



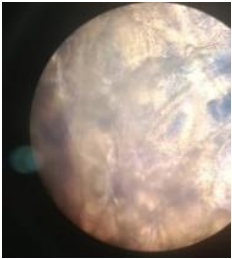
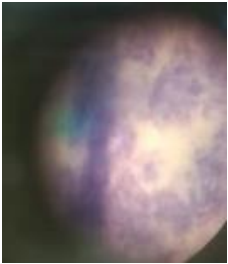
#### Uji Viskositas



Uji basis dengan zat aktif



Uji *Tape Stripping* (optimasi basis)

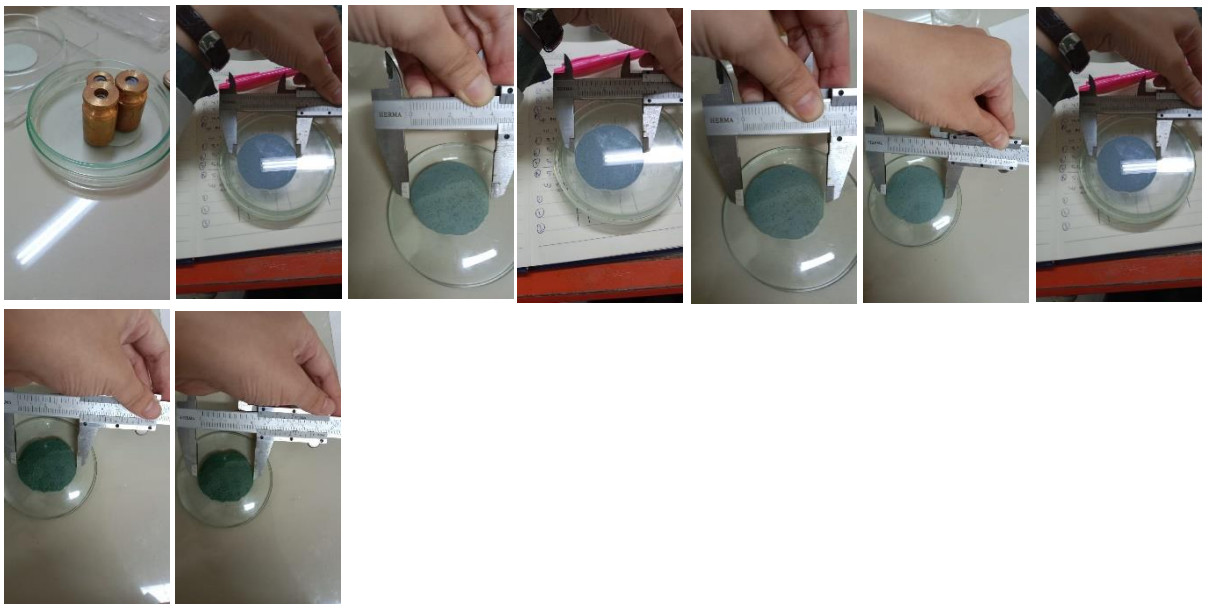
| Formula 1                                                                          | Formula 2                                                                          | Formula 3                                                                            |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |

Lampiran 4. Dokumentasi Uji Stabilitas Fisik (*freeze thaw cycling test*) selama 28 hari dan aktivitas antioksidan

Perlakuan uji stabilitas fisik (*freeze thaw cycling test*) suhu 4°C selama 24 jam pertama dan 40°C



Uji Daya Sebar



Uji Viskositas

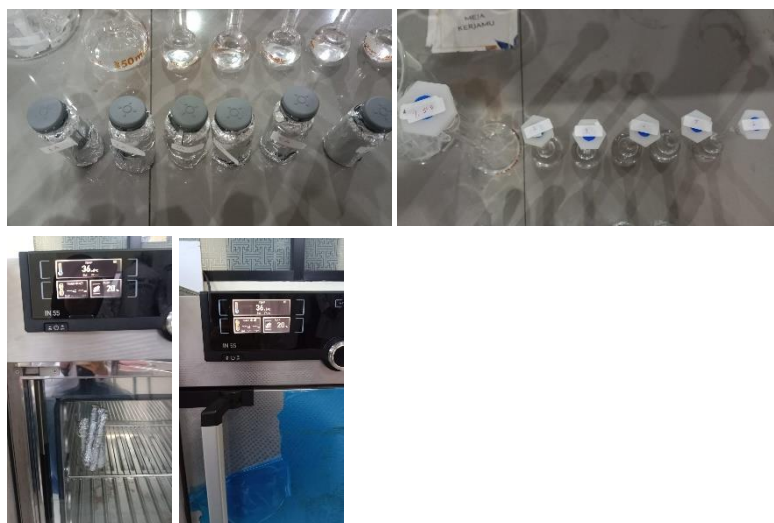




Uji pH



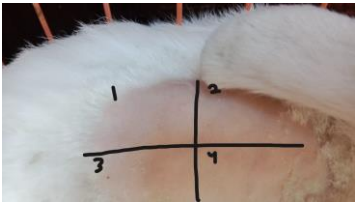
Uji Aktivitas Antioksidan





Lampiran 5. Uji Iritasi *in vivo*

| Jam ke | Formula 0                                                                         | Formula 1                                                                         | Formula 2                                                                          | Formula 3                                                                           |
|--------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 0      |  |  |  |  |

| Jam ke 24                                                                          | Jam ke 48                                                                           | Jam ke 72                                                                            |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |

Ekstrak Bunga telang

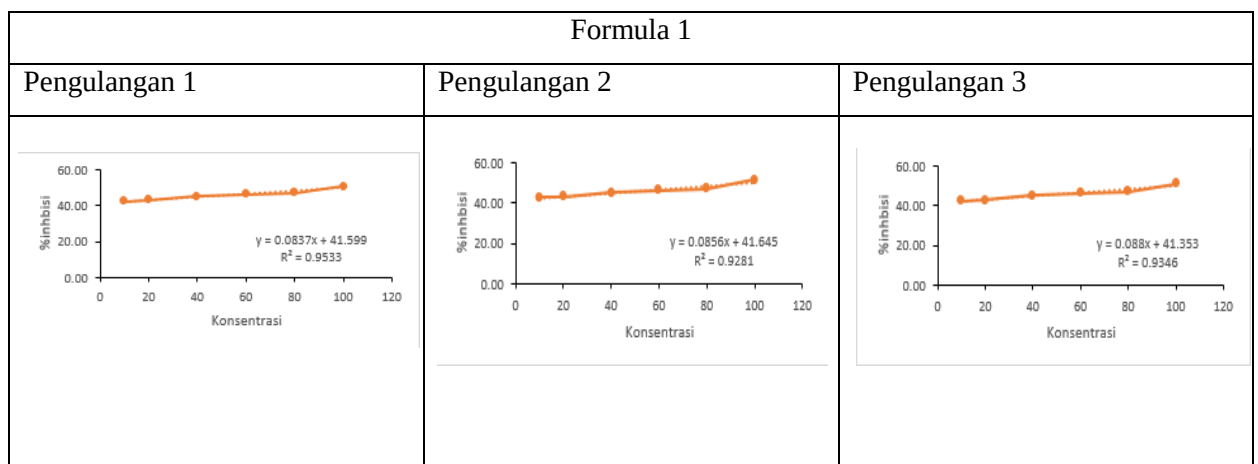
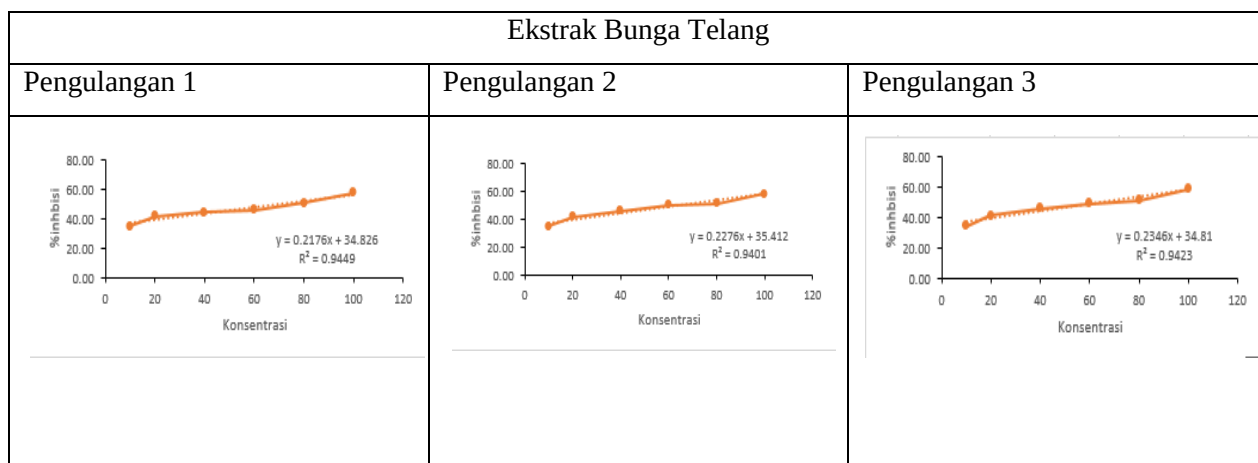
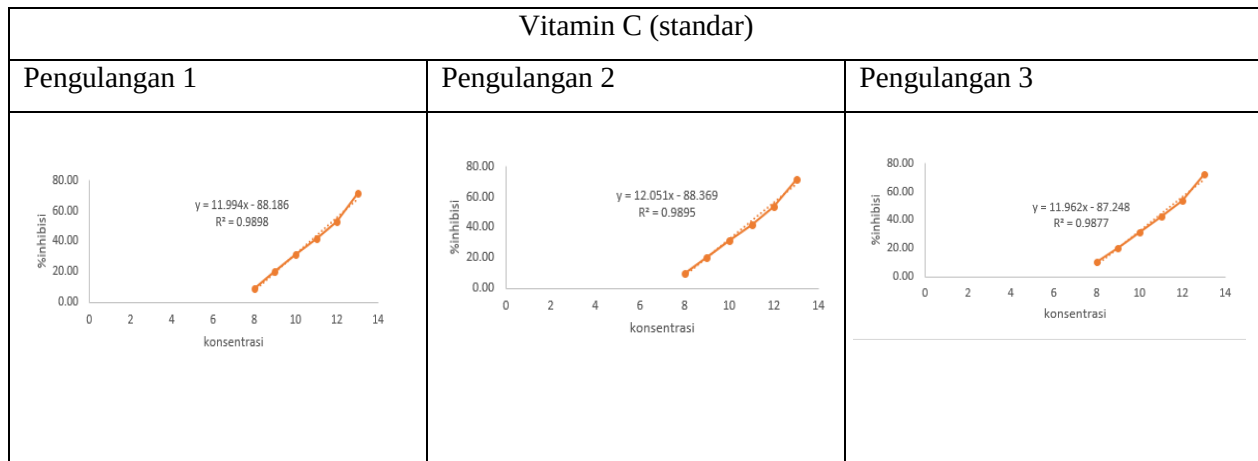
Formula 1

| no | konsentrasi | Abs pengulangan |       |       | rata-rata | Abs sample | %inhibisi | IC50(μg/ml) |
|----|-------------|-----------------|-------|-------|-----------|------------|-----------|-------------|
|    |             | 1               | 2     | 3     |           |            |           |             |
| 1  | 10          | 0.405           | 0.404 | 0.401 | 0.403     | 0.398      | 42.69     | 98.68       |
| 2  | 20          | 0.401           | 0.4   | 0.4   | 0.400     | 0.395      | 43.12     |             |
| 3  | 40          | 0.385           | 0.385 | 0.386 | 0.385     | 0.380      | 45.28     |             |
| 4  | 60          | 0.378           | 0.377 | 0.377 | 0.377     | 0.372      | 46.43     |             |
| 5  | 80          | 0.373           | 0.372 | 0.372 | 0.372     | 0.367      | 47.15     |             |
| 6  | 100         | 0.344           | 0.347 | 0.343 | 0.345     | 0.340      | 51.13     |             |
|    | blanko      | 0.695           |       |       |           |            |           |             |

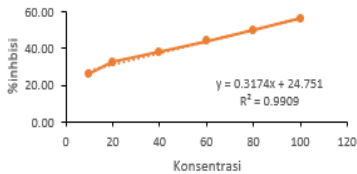
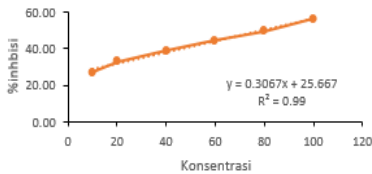
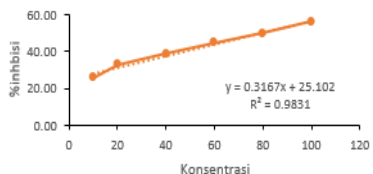




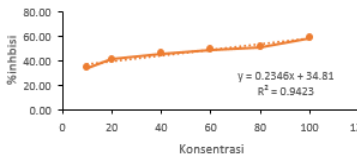
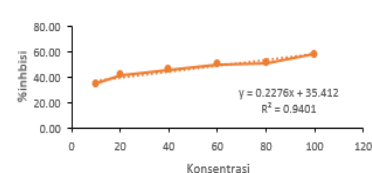
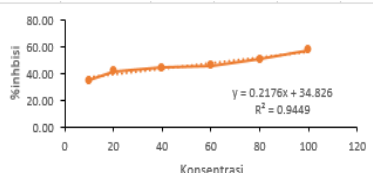
## Lampiran 7. Kurva Hubungan Konsentrasi dengan %inhibisi



Formula 2

| Pengulangan 1                                                                                                                                            | Pengulangan 2                                                                                                                                           | Pengulangan 3                                                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><math>y = 0.3174x + 24.751</math><br/><math>R^2 = 0.9909</math></p> |  <p><math>y = 0.3067x + 25.667</math><br/><math>R^2 = 0.99</math></p> |  <p><math>y = 0.3167x + 25.102</math><br/><math>R^2 = 0.9831</math></p> |

Formula 3

| Pengulangan 1                                                                                                                                            | Pengulangan 2                                                                                                                                              | Pengulangan 3                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p><math>y = 0.2346x + 34.81</math><br/><math>R^2 = 0.9423</math></p> |  <p><math>y = 0.2276x + 35.412</math><br/><math>R^2 = 0.9401</math></p> |  <p><math>y = 0.2176x + 34.826</math><br/><math>R^2 = 0.9449</math></p> |

## Lampiran 8. Izin Etik


**KOMISI ETIK PENELITIAN KESEHATAN  
UNIVERSITAS BHAKTI KENCANA**

Jl. Soekarno - Hatta 754, Bandung  
Telp : 022-7830 760 / 022-7830-768  
Email : komisi.etik@bku.ac.id


**KOMISI ETIK PENELITIAN KESEHATAN  
HEALTH RESEARCH ETHICS COMMITTEE  
UNIVERSITAS BHAKTI KENCANA  
BHAKTI KENCANA UNIVERSITY**
**KETERANGAN LAYAK ETIK  
DESCRIPTION OF ETHICAL APPROVAL  
"ETHICAL APPROVAL"  
099/09.KEPK/UBK/VII/2024**

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

Peneliti Utama : Alicfia Syeru Dinna  
*Principal in investigator*

Nama institusi : Universitas Bhakti Kencana  
*Name of institution*

Dengan judul :  
*Title*

**Formulasi dan Evaluasi Sediaan Krim Body Scrub Ampas Biji Kopi Hijau dengan Variasi Konsentrasi Ekstrak Bunga Telang (*Clitoria ternatea*)**

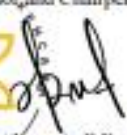
*Formulation and Evaluation of Green Coffee Bean Ground Scrub Cream Preparations with Varying Concentrations of Butterfly Butterfly Extract (*Clitoria ternatea*)*

Dinyatakan layak etik sesuai (tujuh) standar WHO 2011, yaitu 1) Nilai Sosial, 2) Nilai Ilmiah, 3) Pemerataan Beban dan Manfaat, dan 4) Risiko, 5) Bujukan atau eksploitasi, 6) Kerahasiaan atau Privacy, 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 Value, 2) Scientific Value, 3) Equitable Assessment and Benefits, 4) Risks, 5) Persuasion/Exploitation, 6) Confidentiality and Privacy, and Informed Consent, referring to the 2016 CIOMS guidelines. This is as indicated by the fulfillment of the indicators of each standards.*

Pernyataan Laik Etik ini berlaku selama kurun waktu 05 Juli 2024 sampai dengan tanggal 05 Juli 2025.

*This declaration of ethics applies during the period 05 th July 2024 until 05 th July 2025.*

05 Juli 2024  
Professor and Chairperson  
  
R. Nety Rustikayanti, S.Kp., M.Kep  
Nrk. 02019010336

## Lampiran 9. Determinasi Tanaman

**HERBARIUM JATINANGORIENSE**  
**LABORATORIUM BIOSISTEMATIKA DAN MOLEKULER**  
**DEPARTEMEN BIOLOGI, FMIPA UNPAD**  
 Gedung D2-212, Jl. Raya Bandung Sumedang Km 21 Jatinangor  
 Telp. 022-7796412

---

**LEMBAR IDENTIFIKASI TUMBUHAN**  
 No.392/LBM/IT/IV/2024

Herbarium Jatinangor, Laboratorium Biosistematika dan Molekuler, Departemen Biologi FMIPA UNPAD, dengan ini menerangkan bahwa:

Nama : Aliefia Syera Dinna  
 NPM : 201804019  
 Instansi : Universitas Bhakti Kencana  
 Telah melakukan identifikasi tumbuhan, dengan No. Koleksi: 493  
 Tanggal Koleksi : 18 Maret 2024  
 Lokasi : Kebun Percobaan Manoko-Lembang, Jawa Barat

Hasil Identifikasi,

Nama Ilmiah : *Coffea arabica* L.  
 Sinonim : *Coffea bourbonica* Pharm. Ex Wehmer  
 Nama Lokal : Kopi Arabika  
 Suku/Famili : *Rubiaceae* Juss.

Referensi:

Cronquist, Arthur. 1981. *An Integrated System of Classification of Flowering Plants*.  
 Columbia University Press. New York  
 World Flora Online(2021): <https://powo.science.kew.org/>.

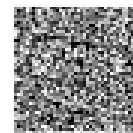
Jatinangor, 5 April 2024

Mengetahui,  
Kepala Laboratorium



Annisa, M.Si., Ph.D.  
NIP. 197802042006042001

Identifikator,



Drs. Joko Kusmoro, M.P  
NIP. 196008011991011001

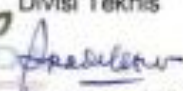
## Lampiran 10. COA Ekstrak Bunga Telang

**SERTIFIKAT ANALISIS**

Nomor : 240333166b  
 Nama Sampel : Ekstrak Bunga Telang  
 Uji : Wama, Aroma, Rasa  
 Metode : Organoleptik  
 Tanggal : 20 Maret 2024  
 Permintaan : Aliefia Syera Dinna  
 NIM : 221FF04019  
 Institusi : Fakultas Farmasi Universitas Bhakti Kencana

**Hasil Uji**

| Parameter Uji | Hasil                                  | Metode       |
|---------------|----------------------------------------|--------------|
| Penampilan    | Kental, Warna biru tua                 | Organoleptik |
| Aroma         | Lembut dan floral.                     | Organoleptik |
| Rasa          | Ringan dan netral dengan sedikit manis | Organoleptik |

Divisi Teknis  
  
 Pradekatiwi, S.Si.

## Lampiran 11. Prosedur Ekstrak Bunga Telang

|                                                                                   |              |                                                          |               |
|-----------------------------------------------------------------------------------|--------------|----------------------------------------------------------|---------------|
|  |              | <b>LEMBAR KERJA EKSTRAKSI<br/>LABORATORIUM PENGUJIAN</b> |               |
| Nama sampel                                                                       | Bunga Telang | Tanggal                                                  | 20 Maret 2024 |
| Kode sampel                                                                       | 240333166    | Metode                                                   | Maserasi      |

**Prosedur ekstraksi**

1. Sortasi daun
2. Cuci dalam air mengalir
3. Keringkan dalam oven pada suhu 40°C selama 12 jam
4. Giling menggunakan diskmill dengan ayakan 60 mesh
5. Masukkan ke dalam kontainer ekstraktor
6. Tambahkan solvent ethanol 70%
7. Ekstraksikan dengan ultra turax pada kecepatan 1.000 rpm selama 2 jam
8. Maserasikan selama 48 jam
9. Filtrasi dengan corong buchner, sedot dengan mesin vakum
10. Residu diekstraksi ulang seperti diatas
11. Filtrat pertama dan kedua dievaporasi dengan vakum rotary evaporator pada suhu 45°C tekanan vakum
12. Tuang ekstrak ke dalam cawan porselin
13. Uapkan sisa solvent dengan penangas air waterbatch
14. Timbang ekstrak yang diperoleh.

**DATA HASIL**

Kompilasi Data Ekstraksi :

|                            |   |       |    |
|----------------------------|---|-------|----|
| Berat daun segar           | : | 3.115 | g  |
| Berat daun kering          | : | 648   | g  |
| Volume solvent ethanol 70% | : | 4.500 | mL |
| Berat ekstrak              | : | 60,2  | g  |



Lampiran 12. Bahan Tambahan  
Parafin cair dan PEG

**Ignitol**

| CERTIFICATE OF ANALYSIS |                                          |             |                                                                                                                                                                           |
|-------------------------|------------------------------------------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PRODUCT NAME            | IGNITOL WMO-15                           |             |                                                                                                                                                                           |
| GRADE                   | LIGHT LIQUID PARAFFIN 15                 |             |                                                                                                                                                                           |
| SAFETY NO               | WMO220408                                |             |                                                                                                                                                                           |
| QUANTITY                | 27.2 MT                                  |             |                                                                                                                                                                           |
| MFG. DATE               | 02.04.2022                               |             |                                                                                                                                                                           |
| EXP. DATE               | 03.04.2024                               |             |                                                                                                                                                                           |
| Sr.no.                  | TEST PARAMETERS                          | TEST METHOD | TEST VALUES                                                                                                                                                               |
| 1                       | Appearance                               | Visual      | A colourless, transparent oil liquid free from fluorescence in day light. Practically insoluble in water, slightly soluble in ethanol (96 %), miscible with hydrocarbons. |
| 2                       | Colour, Saybolt                          | ASTM D 156  | + 30                                                                                                                                                                      |
| 3                       | Odour                                    | Olfactory   | Almost odourless                                                                                                                                                          |
| 4                       | Kinematic Viscosity at 40 °C, cSt        | ASTM D 7042 | 34 - 36                                                                                                                                                                   |
| 5                       | Dynamic Viscosity, mPa.s                 | EUP/MP      | 25 - 60                                                                                                                                                                   |
| 6                       | Density at 25 °C                         | RP/JP       | 0.812 - 0.860                                                                                                                                                             |
| 7                       | Specific Gravity at 30 °C                | RP/USP      | 0.818 - 0.860                                                                                                                                                             |
| 8                       | Flash Point, °C                          | ASTM D 92   | 160 min.                                                                                                                                                                  |
| 9                       | Pour Point, °C                           | ASTM D 97   | -6 max.                                                                                                                                                                   |
| 10                      | Acidity                                  | USP         | Not more than 1 ml of 0.01 N NaOH                                                                                                                                         |
| 11                      | Limit of Polycyclic Aromatic Hydrocarbon | USP/JP      | Absorbance at 360 - 390 nm is not greater than one third of absorbance at 275 nm at standard Naphthalene sol (7 µg per ml)                                                |
| 12                      | Readily Carbonizable Substance Test      | USP/JP      | Ashe does not become darker than standard colour                                                                                                                          |
| 13                      | Solid Paraffin                           | USP/JP      | Oil is clear to see black line of 0.5 mm width                                                                                                                            |

**Remarks** - IGNITOL WMO 15 - Light Mineral Oil is a highly pure grade of White Mineral Oil specially formulated from chosen severely hydrotreated and highly refined Paraffinic Oil, thus qualifying for the severe requirements stipulated under NF/ United States Pharmacopoeia. These Oil are very popular for use in formulation of cosmetics and personal care products.

  
 QUALITY ASSURANCE

Date: 2024-03-14 (YYYY-MM-DD) Time: 03:20:00 (Greenwich Mean Time) Page 1 of 4

**DOW**

**DOW CHEMICAL PACIFIC (SINGAPORE) PRIVATE LIMITED**

**Certificate of Analysis**

Product Number: 00000114877  
 Product Name: Propylene Glycol USP/EP  
 Delivery No.: 827097981 / 020010  
 Order Number: 115924993  
 Shipping Units: 80.000 DR  
 Date Shipped: 2024-03-07 (YYYY-MM-DD)  
 Shipment No.: 44133541

Batch Number: C81502FK31  
 Seal Number: THREE2490  
 Expiration Date: 2026-02-14 (YYYY-MM-DD)  
 Manufacturing Date: 2024-02-15 (YYYY-MM-DD)  
 Quantity: 80.000 DR  
 Net Weight: 17200.000 KG  
 Manufacturing Plant: MTP AIE PG  
 Manufacturer Address: 10/4 Moo 2 ASIA IND EST BANGKANG Rayong 21130

Manufacturer: Dow Chemical Thailand Ltd

It is hereby certified that the material indicated above has been inspected and tested in accordance with the conditions and requirements of the contract or purchase order and, unless agreed otherwise conforms in all respects to the specification relevant thereto and it meets all requirements of the current United States Pharmacopoeia, current Food Chemical Codex, current European Pharmacopoeia and current Pharmacopoeia of Japan.

| Test                      | Unit | Lower Limit | Upper Limit | Value  | Method      |
|---------------------------|------|-------------|-------------|--------|-------------|
| S Residue on Ignition USP | %    | -           | 0.0070      | 0.0015 | Current JP  |
| Assay                     | %    | 99.80       | -           | 99.97  | Current USP |
| M Acidity                 | ml   | -           | 0.20        | 0.02   | Current USP |
| S Sulfated ash USP        | %    | -           | 0.0100      | 0.0015 | Current JP  |
| M Chlorides               | ppm  | -           | 70          | < 70   | Current USP |
| S Residue on Ignition FCC | %    | -           | 0.0070      | 0.0015 | Current JP  |

## Setil alkohol dan asam stearat

**CERTIFICATE OF ANALYSIS**

COA No. : COA-2205212  
 Product Name : CapSitol P18 (Fatty Alcohol)  
 Product Form : Paste  
 Batch No. : C08H170G12

Quantity : 8 MT  
 Packing : 25 KG Paper Bag With Loose Stuffing (SCPL Brand)

3096/2022

| PARAMETER            | UNIT    | SPECIFICATION              | RESULT   | METHOD        |
|----------------------|---------|----------------------------|----------|---------------|
| Appearance@20C       |         | White Solid/Beard/Pastille | Pastille | Visual        |
| Hydroxyl Value       | mgKOH/g | 228-233                    | 231      | AOCS Cd 13-90 |
| Saponification Value | mgKOH/g | 0.5 Max                    | 0.06     | AOCS T1 14-94 |
| Acid Value           | mgKOH/g | 0.1 Max                    | 0.01     | AOCS T6 24-94 |
| Iodine Value         | %I2     | 0.5 Max                    | 0.02     | AOCS T6 18-94 |
| Color                | APHA    | 10 Max                     | 5.0      | ASTM D1209    |
| Moisture             | %       | 0.3 Max                    | 0.06     | ISO 780       |
| Solidification Point | °C      | 47-50                      | 49.0     | ISO 3841      |
| Composition          |         |                            |          |               |
| nC14                 | %       | 2 Max                      | 0.3      | ESM-TM-QC-208 |
| C16                  | %       | 98 Min                     | 99.5     | ESM-TM-QC-208 |
| nC18                 | %       | 2 Max                      | 0.0      | ESM-TM-QC-208 |
| Hydrocarbon          | %       | 0.5 Max                    | 0.1      | ESM-TM-QC-208 |

We hereby certify the analysis of the sample as shown above

This document has been produced electronically  
 from a validated system no signature is required

**PT. WILMAR NABATI INDONESIA**  
 Quality Control Department

**KAN**  
 Kapsul Nabati Indonesia  
 Kabupaten Tegal  
 51775-100

Date: 25 May 2022

**CERTIFICATE OF ANALYSIS**

Ref No.: F-AGC/GSN/22V/142

Product: STEARIC ACID 38%

Manufactured Date: May 15, 2022

Dest Before: May 19, 2022

Date of Received Sample: May 19, 2022

Date of Analysis: May 19, 2022

Lot No.: B220518-14W

| Parameter                    | Unit          | Result  | Specification | Test Method         |
|------------------------------|---------------|---------|---------------|---------------------|
| Appearance                   |               | Beads   | Beads         | Visual              |
| Acid Value                   | mg KOH/g      | 210     | 206-214       | AOCS T6 18-94, 2017 |
| Saponification Value         | mg KOH/g      | 211     | 207-216       | AOCS T6 18-94, 2017 |
| Iodine Value                 | % I2 absorbed | 0.1     | 1 max         | AOCS T6 18-94, 2017 |
| Color (1% Soln)              | PCU           | 0.1/0.7 | 0.5/2 max     | AOCS Ca 19-99, 2017 |
| Titer                        | %             | 95.4    | 94-97         | AOCS T1 18-14, 2017 |
| Carboxylic Acid Distribution |               |         |               |                     |
| -C12                         | %             | 103     | 1 max         |                     |
| -C14                         | %             | 0.2     | 2 max         | AOCS Ca 16-91, 1993 |
| -C16                         | %             | 88.3    | 55-63         | AOCS Ca 7-98, 2017  |
| -C18                         | %             | 10.5    | 37-43*        |                     |
| -Others                      | %             | 0.6     | 1 max         |                     |

Remarks:  
 \*% max acceptable concentration

The results of these tests relate only to the sample(s) submitted

Certified Correct

*Wendy Setiawan*  
 QC Asst Manager

This report shall not be used for advertising purpose  
 This report shall not be reproduced except in full context, without the written approval of PT. Wilmar Nabati Indonesia

Page 1 of 1

## TEA dan Akuades

Time 15:06:32 (Greenwich Mean Time) Page 1 of 1

|                                                                                                                                                                                                               |                         |                                                                      |                                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------------------------------|---------------------------------|
|                                                                                                                              |                         |                                                                      |                                 |
| DOW CHEMICAL PACIFIC<br>(SINGAPORE) PRIVATE LIMITED                                                                                                                                                           |                         | Ship From: SAINT GABRIEL 0001 Whse<br>SAINT GABRIEL<br>United States |                                 |
| <b>Certificate of Analysis</b>                                                                                                                                                                                |                         |                                                                      |                                 |
| Product Number                                                                                                                                                                                                | 00000171424             |                                                                      |                                 |
| Product Name                                                                                                                                                                                                  |                         |                                                                      |                                 |
| Triethanolamine 99%                                                                                                                                                                                           |                         |                                                                      |                                 |
| Delivery No.                                                                                                                                                                                                  | 820339029 / 000010      |                                                                      |                                 |
| Order Number                                                                                                                                                                                                  | 112133642               |                                                                      |                                 |
| Date Shipped                                                                                                                                                                                                  | 2021-03-05 (YYYY-MM-DD) |                                                                      |                                 |
| Shipment No.                                                                                                                                                                                                  | 38296069                |                                                                      |                                 |
| Batch Number                                                                                                                                                                                                  |                         | D673KD30X2                                                           |                                 |
| Manufacturing Date                                                                                                                                                                                            |                         | 2021-01-05 (YYYY-MM-DD)                                              |                                 |
| <b>Test</b>                                                                                                                                                                                                   | <b>Unit</b>             | <b>Lower Limit</b>                                                   | <b>Upper Limit Value Method</b> |
| Triethanolamine                                                                                                                                                                                               | WT%                     | 99.00                                                                | - 99.25 DOW 102349              |
| Monoethanolamine                                                                                                                                                                                              | WT%                     | -                                                                    | 0.10 0.00 DOW 102349            |
| Diethanolamine                                                                                                                                                                                                | WT%                     | -                                                                    | 0.50 0.40 DOW 102349            |
| Water                                                                                                                                                                                                         | WT%                     | -                                                                    | 0.2 0.0 ASTM E203               |
| Iron                                                                                                                                                                                                          | ppm wt                  | -                                                                    | 10.0 0.1 1B-17A-0.4             |
| Color, Pt-Co                                                                                                                                                                                                  | -                       | -                                                                    | 40 22 ASTM D5386                |
| Appearance                                                                                                                                                                                                    | -                       | -                                                                    | Pass DOW 101967                 |
| The following properties are not determined on shipment samples.<br>Typical values are: Specific gravity at 20/20 C: 1.1240 - 1.1270 by method 1B-17A-0;<br>Equivalent weight: 148 - 150 by method 1B-17A-2.3 |                         |                                                                      |                                 |
| Quality Coordinator                                                                                                                                                                                           |                         |                                                                      |                                 |
| For inquiries please contact Customer Service or local sales                                                                                                                                                  |                         |                                                                      |                                 |
| ® = Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow                                                                                                                             |                         |                                                                      |                                 |

## CERTIFICATE OF ANALYSIS

|              |                      |                    |                |
|--------------|----------------------|--------------------|----------------|
| Product Name | : AQUADEST           | Molecular Weight   | : 18.02 g/mol  |
| Catalog No.  | : A.1078             | Batch No.          | : 1088914      |
| Grade        | : Laboratory Reagent | Manufacturing Date | : Oct 06, 2021 |
| Formula      | : H2O                | Expire Date        | : Oct, 2023    |
| Cas No.      | : 7732-18-5          |                    |                |

| No. | ITEM TEST                    | UNITS | SPECIFICATION                         | RESULTS     |
|-----|------------------------------|-------|---------------------------------------|-------------|
| 1.  | Appearance                   | -     | Clear and free of visible particulate | Passes test |
| 2.  | Conductivity at 25 °C        | uS/cm | ≤ 1.0                                 | 0.16        |
| 3.  | pH at 25 °C                  | -     | 5.5 - 8.0                             | 7.8         |
| 4.  | Total Dissolve Solid ( TDS ) | ppm   | ≤0.5                                  | 0.08        |
| 5.  | Residu on evaporation        | ppm   | ≤ 1.0                                 | NIL         |
| 6.  | Total Organic Carbon (TOC)   | ppm   | ≤50                                   | <50         |
| 7.  | Total Hardness               | ppm   | ≤ 0.1                                 | NIL         |
| 8.  | Chloride ( Cl )              | ppm   | ≤0.5                                  | 0.3         |
| 9.  | Silica                       | ppm   | ≤0.5                                  | 0.0188      |
| 10. | Iron ( Fe )                  | ppm   | ≤ 0.1                                 | 0.0379      |
| 11. | Aromatic Hydrocarbon         | ppm   | Free of Hydrocarbon                   | NIL         |

Lampiran 13. *Certificate Of Analysis* serbuk DPPH

## Product Information

 Revision : 01  
 Date of Revision: 19.12.2018
**2,2-Diphenyl-1-picrylhydrazyl****MB263****For Molecular Biology****Product Identifier**

|                   |                        |
|-------------------|------------------------|
| CAS No.           | : 1898-66-4            |
| EC No.            | : 217-591-8            |
| Molecular Formula | : $C_{18}H_{13}N_5O_6$ |
| Molecular Weight  | : 394.32               |
| HS Code           | : 2928 00 90           |
| Storage           | : Below 30°C           |
| Shelf life        | : 4 years              |

**Technical Specification**

|              |                                                                           |
|--------------|---------------------------------------------------------------------------|
| Appearance   | : Green to dark violet to black-gold to black crystals or powder or solid |
| Solubility   | : 33.3 mg soluble in 1 mL of dimethylformamide                            |
| FTIR         | : Matches with the standard pattern                                       |
| DNases       | : None detected                                                           |
| RNases       | : None detected                                                           |
| Assay (HPLC) | : min. 85.00%                                                             |

**Safety Information**

## Hazard Pictogram(s)



|                            |                           |
|----------------------------|---------------------------|
| Signal Word                | : Danger                  |
| Hazard Statement(s)        | : H317- H334              |
| Precautionary Statement(s) | : P261- P280- P342 + P311 |
| UN No.                     | : Not dangerous goods     |
| Class                      | : "                       |
| Packing Group              | : "                       |
| RTECS                      | : MW3250000               |
| WGK                        | : I                       |

 Address: C-80, Road No.31/P, MIDC, Wagholi-Ind. Area, Thane(W) - 400605, Maharashtra, India. Phone: +91-22-2537 1818, 0803 88 08  
 Fax: +91-22-2537 1925, 0803 88 90 email: info@himedia.co.in, Visit us at our website: www.himedia.co.in

The information contained herein is believed to be accurate and complete. However no warranty or guarantee whatsoever is made or is to be implied with respect to such information or with respect to any product, method or apparatus referred to herein.

Lampiran 14. *Certificate Of Analysis* metanol

## Certificate of Analysis

1.06009.2500 Methanol for analysis EMSURE® ACS,ISO,Reag. Ph Eur  
Batch I1258409

|                     |            |   |            |   |
|---------------------|------------|---|------------|---|
| Sn (Tin)            | ≤ 0.00001  | % | ≤ 0.00001  | % |
| Ti (Titanium)       | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Tl (Thallium)       | ≤ 0.000002 | % | ≤ 0.000002 | % |
| V (Vanadium)        | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Zn (Zinc)           | ≤ 0.00001  | % | ≤ 0.00001  | % |
| Zr (Zirconium)      | ≤ 0.000002 | % | ≤ 0.000002 | % |
| Evaporation residue | ≤ 0.0005   | % | < 0.0001   | % |
| Water               | ≤ 0.05     | % | < 0.01     | % |

ACS, ISO, Reag Ph Eur

Date of release (DD.MM.YYYY) 01.12.2022  
Minimum shelf life (DD.MM.YYYY) 31.10.2027

Jeannette David  
Responsible laboratory manager quality control

This document has been produced electronically and is valid without a signature.



## Certificate of Analysis

1.06009.2500 Methanol for analysis EMSURE® ACS,ISO,Reag. Ph Eur  
Batch I1258409

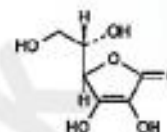
|                                                   | Spec. Values  |       | Batch Values |       |
|---------------------------------------------------|---------------|-------|--------------|-------|
| Purity (GC)                                       | ≥ 99.9        | %     | 99.9         | %     |
| Identity (IR)                                     | conforms      |       | conforms     |       |
| Appearance                                        | clear         |       | clear        |       |
| Color                                             | ≤ 10          | Hazen | < 5          | Hazen |
| Solubility in water                               | conforms      |       | conforms     |       |
| Acidity                                           | ≤ 0.0002      | meq/g | 0.0001       | meq/g |
| Alkalinity                                        | ≤ 0.0002      | meq/g | < 0.0002     | meq/g |
| Density (d 20 °C/20 °C)                           | 0.791 - 0.793 |       | 0.793        |       |
| Boiling point                                     | 64 - 65       | °C    | 64           | °C    |
| Benzene (impurity A) (GC)                         | ≤ 2           | ppm   | < 1          | ppm   |
| Ethanol (GC)                                      | ≤ 0.05        | %     | < 0.01       | %     |
| Acetone                                           | ≤ 0.001       | %     | ≤ 0.001      | %     |
| Acetaldehyde                                      | ≤ 0.001       | %     | ≤ 0.001      | %     |
| Formaldehyde                                      | ≤ 0.001       | %     | ≤ 0.001      | %     |
| Readily carbonizable substances                   | conforms      |       | conforms     |       |
| Carbonyl compounds (as CO)                        | ≤ 0.001       | %     | ≤ 0.001      | %     |
| Chloride (Cl)                                     | ≤ 0.5         | ppm   | ≤ 0.5        | ppm   |
| Sulfate (SO <sub>4</sub> )                        | ≤ 1           | ppm   | ≤ 1          | ppm   |
| Substances reducing potassium permanganate (as O) | ≤ 0.00025     | %     | ≤ 0.00025    | %     |
| Ag (Silver)                                       | ≤ 0.000002    | %     | ≤ 0.000002   | %     |
| Al (Aluminium)                                    | ≤ 0.00005     | %     | ≤ 0.00005    | %     |
| As (Arsenic)                                      | ≤ 0.000002    | %     | ≤ 0.000002   | %     |
| Au (Gold)                                         | ≤ 0.000002    | %     | ≤ 0.000002   | %     |
| Ba (Barium)                                       | ≤ 0.00001     | %     | ≤ 0.00001    | %     |
| Be (Beryllium)                                    | ≤ 0.000002    | %     | ≤ 0.000002   | %     |
| Bi (Bismuth)                                      | ≤ 0.000002    | %     | ≤ 0.000002   | %     |
| Ca (Calcium)                                      | ≤ 0.00005     | %     | ≤ 0.00005    | %     |
| Cd (Cadmium)                                      | ≤ 0.000005    | %     | ≤ 0.000005   | %     |
| Co (Cobalt)                                       | ≤ 0.000002    | %     | ≤ 0.000002   | %     |
| Cr (Chromium)                                     | ≤ 0.000002    | %     | ≤ 0.000002   | %     |
| Cu (Copper)                                       | ≤ 0.000002    | %     | ≤ 0.000002   | %     |
| Fe (Iron)                                         | ≤ 0.00001     | %     | ≤ 0.00001    | %     |
| Ga (Gallium)                                      | ≤ 0.000002    | %     | ≤ 0.000002   | %     |
| In (Indium)                                       | ≤ 0.000002    | %     | ≤ 0.000002   | %     |
| Li (Lithium)                                      | ≤ 0.000002    | %     | ≤ 0.000002   | %     |
| Mg (Magnesium)                                    | ≤ 0.00001     | %     | ≤ 0.00001    | %     |
| Mn (Manganese)                                    | ≤ 0.000002    | %     | ≤ 0.000002   | %     |
| Mo (Molybdenum)                                   | ≤ 0.000002    | %     | ≤ 0.000002   | %     |
| Ni (Nickel)                                       | ≤ 0.000002    | %     | ≤ 0.000002   | %     |
| Pb (Lead)                                         | ≤ 0.00001     | %     | ≤ 0.00001    | %     |
| Pt (Platinum)                                     | ≤ 0.000005    | %     | ≤ 0.000005   | %     |



Lampiran 15. *Certificate Of Analysis* Vitamin C

## SERTIFIKAT ANALISIS

NAMA ZAT : ASAM ASKORBAT BPL  
 NO KONTROL : B0114243  
 FORMULA :  $C_6H_8O_6$   
 BOBOT MOLEKUL : 176.12 g/mol



TUJUAN PENGGUNAAN :  
 - identifikasi secara spektrofotometri inframerah  
 - identifikasi secara spektrofotometri ultraviolet  
 - titik lebur dan kemurnian secara differential scanning calorimetry  
 - penetapan kadar secara kromatografi cair kinerja tinggi  
 - penetapan kadar secara spektrofotometri ultraviolet

WADAH DAN PENYIMPANAN : dalam wadah tertutup rapat, terhindar dari kontak langsung dengan cahaya.

| PENGUJIAN                 | ACUAN/METODE                                                     | SPEKIFIKASI                                                                                                                 | HASIL                                             |
|---------------------------|------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Pemerian                  |                                                                  | Serbuk hablur putih atau hampir putih, atau hablur tidak berwarna                                                           | Memenuhi syarat                                   |
| Identifikasi              | Spektrofotometri Inframerah (USP 35 hal. 2242; BP 2009 hal. 173) | Sesuai dengan spektrum inframerah baku primer Ascorbic acid USPRS no. Lot R0K142                                            | Memenuhi syarat                                   |
|                           | Spektrofotometri Ultraviolet (BP 2009 hal. 173)                  | Sesuai dengan spektrum ultraviolet baku primer Ascorbic acid USPRS no. Lot R0K142; Serapan jenis pada 243 nm adalah 545-585 | Memenuhi syarat ; Serapan jenis pada 243 nm = 550 |
| Titik Lebur dan Kemurnian | Differential Scanning Calorimetry (BP 2009 hal. 173)             | 190 °C                                                                                                                      | 189,01 °C;<br>Kemurnian 99,60%                    |
| Penetapan Kadar           | Spektrofotometri Ultraviolet (BP 2009 hal. 173)                  | 99,0 – 100,5%                                                                                                               | 99,56 ± 2,03%                                     |
|                           | Kromatografi Cair Kinerja Tinggi (Modifikasi MA 02/PK/12)        | 99,0 – 100,5%                                                                                                               | 100,15 ± 0,83 %                                   |



Kepala Pusat Pengujian Obat dan Makanan Nasional  
 Dr. Irena Prapti Karyani, M.Si., Apt.

Dr. Irena Prapti Karyani, M.Si., Apt.  
 NIP. 19601223 199503 2 001



Lampiran 16. Uji Statistika dengan SPSS: uji T *independen* metode *kruskal wallis*

## Uji stabilitas fisik

| Uji pH                 |            |        |                |         |         |
|------------------------|------------|--------|----------------|---------|---------|
| Descriptive Statistics |            |        |                |         |         |
|                        | N          | Mean   | Std. Deviation | Minimum | Maximum |
| Formula0_pH            | 21         | 5.6833 | .14108         | 5.40    | 5.96    |
| Formula1_pH            | 21         | 5.5102 | .30944         | 5.00    | 5.97    |
| Formula2_pH            | 21         | 5.6552 | .24384         | 5.00    | 5.98    |
| Formula3_pH            | 21         | 6.1643 | .11677         | 6.00    | 6.47    |
| hari                   | 21         | 11.29  | 9.592          | 1       | 28      |
| Ranks                  |            |        |                |         |         |
|                        | hari       | N      | Mean Rank      |         |         |
| Formula0_pH            | hari ke 1  | 3      | 3.00           |         |         |
|                        | hari ke 3  | 3      | 4.67           |         |         |
|                        | hari ke 5  | 3      | 13.00          |         |         |
|                        | hari ke 7  | 3      | 13.00          |         |         |
|                        | hari ke 14 | 3      | 16.00          |         |         |
|                        | hari ke 21 | 3      | 7.33           |         |         |
|                        | hari ke 28 | 3      | 20.00          |         |         |
|                        | Total      | 21     |                |         |         |
| Formula1_pH            | hari ke 1  | 3      | 11.00          |         |         |
|                        | hari ke 3  | 3      | 12.00          |         |         |
|                        | hari ke 5  | 3      | 9.17           |         |         |
|                        | hari ke 7  | 3      | 14.17          |         |         |
|                        | hari ke 14 | 3      | 3.67           |         |         |
|                        | hari ke 21 | 3      | 14.67          |         |         |
|                        | hari ke 28 | 3      | 12.33          |         |         |
|                        | Total      | 21     |                |         |         |
| Formula2_pH            | hari ke 1  | 3      | 9.33           |         |         |
|                        | hari ke 3  | 3      | 18.00          |         |         |
|                        | hari ke 5  | 3      | 10.67          |         |         |
|                        | hari ke 7  | 3      | 11.17          |         |         |
|                        | hari ke 14 | 3      | 13.50          |         |         |
|                        | hari ke 21 | 3      | 6.83           |         |         |
|                        | hari ke 28 | 3      | 7.50           |         |         |
|                        | Total      | 21     |                |         |         |

|             |            |    |       |
|-------------|------------|----|-------|
| Formula3_pH | Total      | 21 |       |
|             | hari ke 1  | 3  | 8.17  |
|             | hari ke 3  | 3  | 13.17 |
|             | hari ke 5  | 3  | 16.33 |
|             | hari ke 7  | 3  | 8.50  |
|             | hari ke 14 | 3  | 8.17  |
|             | hari ke 21 | 3  | 10.33 |
|             | hari ke 28 | 3  | 12.33 |
|             | Total      | 21 |       |

| Test Statistics <sup>a,b</sup> |             |             |             |             |
|--------------------------------|-------------|-------------|-------------|-------------|
|                                | Formula0 pH | Formula1 pH | Formula2 pH | Formula3 pH |
| Chi-Square                     | 18.138      | 6.511       | 6.853       | 4.544       |
| df                             | 6           | 6           | 6           | 6           |
| Asymp. Sig.                    | .006        | .368        | .335        | .604        |

a. Kruskal Wallis Test

b. Grouping Variable: hari

Uji Daya Sebar

| Descriptive Statistics |    |        |                |         |         |
|------------------------|----|--------|----------------|---------|---------|
|                        | N  | Mean   | Std. Deviation | Minimum | Maximum |
| Formula0_dayasebar     | 21 | 5.6781 | .13512         | 5.40    | 5.91    |
| Formula1_dayasebar     | 21 | 5.5102 | .30944         | 5.00    | 5.97    |
| Formula2_dayasebar     | 21 | 5.6552 | .24384         | 5.00    | 5.98    |
| Formula3_dayasebar     | 21 | 6.1643 | .11677         | 6.00    | 6.47    |
| hari                   | 21 | 11.29  | 9.592          | 1       | 28      |

| Ranks              |            |    |           |
|--------------------|------------|----|-----------|
|                    | hari       | N  | Mean Rank |
| Formula0_dayasebar | hari ke 1  | 3  | 3.00      |
|                    | hari ke 3  | 3  | 4.67      |
|                    | hari ke 5  | 3  | 12.83     |
|                    | hari ke 7  | 3  | 12.83     |
|                    | hari ke 14 | 3  | 16.33     |
|                    | hari ke 21 | 3  | 7.33      |
|                    | hari ke 28 | 3  | 20.00     |
|                    | Total      | 21 |           |



|                                      |                    |                    |                    |                    |
|--------------------------------------|--------------------|--------------------|--------------------|--------------------|
| Formula1_dayasebar                   | hari ke 1          | 3                  | 11.00              |                    |
|                                      | hari ke 3          | 3                  | 12.00              |                    |
|                                      | hari ke 5          | 3                  | 9.17               |                    |
|                                      | hari ke 7          | 3                  | 14.17              |                    |
|                                      | hari ke 14         | 3                  | 3.67               |                    |
|                                      | hari ke 21         | 3                  | 14.67              |                    |
|                                      | hari ke 28         | 3                  | 12.33              |                    |
|                                      | Total              | 21                 |                    |                    |
|                                      |                    |                    |                    |                    |
| Formula2_dayasebar                   | hari ke 1          | 3                  | 9.33               |                    |
|                                      | hari ke 3          | 3                  | 18.00              |                    |
|                                      | hari ke 5          | 3                  | 10.67              |                    |
|                                      | hari ke 7          | 3                  | 11.17              |                    |
|                                      | hari ke 14         | 3                  | 13.50              |                    |
|                                      | hari ke 21         | 3                  | 6.83               |                    |
|                                      | hari ke 28         | 3                  | 7.50               |                    |
|                                      | Total              | 21                 |                    |                    |
|                                      |                    |                    |                    |                    |
| Formula3_dayasebar                   | hari ke 1          | 3                  | 8.17               |                    |
|                                      | hari ke 3          | 3                  | 13.17              |                    |
|                                      | hari ke 5          | 3                  | 16.33              |                    |
|                                      | hari ke 7          | 3                  | 8.50               |                    |
|                                      | hari ke 14         | 3                  | 8.17               |                    |
|                                      | hari ke 21         | 3                  | 10.33              |                    |
|                                      | hari ke 28         | 3                  | 12.33              |                    |
|                                      | Total              | 21                 |                    |                    |
|                                      |                    |                    |                    |                    |
| <b>Test Statistics<sup>a,b</sup></b> |                    |                    |                    |                    |
|                                      | Formula0_dayasebar | Formula1_dayasebar | Formula2_dayasebar | Formula3_dayasebar |
|                                      | ar                 | ar                 | ar                 | ar                 |
| Chi-Square                           | 18.623             | 6.511              | 6.853              | 4.544              |
| df                                   | 6                  | 6                  | 6                  | 6                  |
| Asymp. Sig.                          | .005               | .368               | .335               | .604               |
| a. Kruskal Wallis Test               |                    |                    |                    |                    |
| b. Grouping Variable: hari           |                    |                    |                    |                    |
| Uji Viskositas                       |                    |                    |                    |                    |

| Descriptive Statistics |    |        |                |         |         |
|------------------------|----|--------|----------------|---------|---------|
|                        | N  | Mean   | Std. Deviation | Minimum | Maximum |
| Formula0_viskositas    | 21 | 5.6781 | .13512         | 5.40    | 5.91    |
| Formula1_viskositas    | 21 | 5.5102 | .30944         | 5.00    | 5.97    |
| Formula2_viskositas    | 21 | 5.6552 | .24384         | 5.00    | 5.98    |
| Formula3_viskositas    | 21 | 6.1643 | .11677         | 6.00    | 6.47    |
| hari                   | 21 | 11.29  | 9.592          | 1       | 28      |

| Ranks               |            |    |           |
|---------------------|------------|----|-----------|
|                     | hari       | N  | Mean Rank |
| Formula0_viskositas | hari ke 1  | 3  | 3.00      |
|                     | hari ke 3  | 3  | 4.67      |
|                     | hari ke 5  | 3  | 12.83     |
|                     | hari ke 7  | 3  | 12.83     |
|                     | hari ke 14 | 3  | 16.33     |
|                     | hari ke 21 | 3  | 7.33      |
|                     | hari ke 28 | 3  | 20.00     |
|                     | Total      | 21 |           |
| Formula1_viskositas | hari ke 1  | 3  | 11.00     |
|                     | hari ke 3  | 3  | 12.00     |
|                     | hari ke 5  | 3  | 9.17      |
|                     | hari ke 7  | 3  | 14.17     |
|                     | hari ke 14 | 3  | 3.67      |
|                     | hari ke 21 | 3  | 14.67     |
|                     | hari ke 28 | 3  | 12.33     |
|                     | Total      | 21 |           |
| Formula2_viskositas | hari ke 1  | 3  | 9.33      |
|                     | hari ke 3  | 3  | 18.00     |
|                     | hari ke 5  | 3  | 10.67     |
|                     | hari ke 7  | 3  | 11.17     |
|                     | hari ke 14 | 3  | 13.50     |
|                     | hari ke 21 | 3  | 6.83      |
|                     | hari ke 28 | 3  | 7.50      |
|                     | Total      | 21 |           |
| Formula3_viskositas | hari ke 1  | 3  | 8.17      |
|                     | hari ke 3  | 3  | 13.17     |
|                     | hari ke 5  | 3  | 16.33     |

|  |            |    |       |  |
|--|------------|----|-------|--|
|  | hari ke 7  | 3  | 8.50  |  |
|  | hari ke 14 | 3  | 8.17  |  |
|  | hari ke 21 | 3  | 10.33 |  |
|  | hari ke 28 | 3  | 12.33 |  |
|  | Total      | 21 |       |  |

| Test Statistics <sup>a,b</sup> |                    |                    |                    |                    |
|--------------------------------|--------------------|--------------------|--------------------|--------------------|
|                                | Formula0_viskosita | Formula1_viskosita | Formula2_viskosita | Formula3_viskosita |
|                                | s                  | s                  | s                  | s                  |
| Chi-Square                     | 18.623             | 6.511              | 6.853              | 4.544              |
| df                             | 6                  | 6                  | 6                  | 6                  |
| Asymp. Sig.                    | .005               | .368               | .335               | .604               |

a. Kruskal Wallis Test

b. Grouping Variable: hari

## Lampiran 17. Hasil Turnitin

| Skripsi_Aliefia Syera Dinna_kompre |                                                        |              |                |
|------------------------------------|--------------------------------------------------------|--------------|----------------|
| ORIGINALITY REPORT                 |                                                        |              |                |
| 9%                                 | 10%                                                    | 2%           | 2%             |
| SIMILARITY INDEX                   | INTERNET SOURCES                                       | PUBLICATIONS | STUDENT PAPERS |
| PRIMARY SOURCES                    |                                                        |              |                |
| 1                                  | lib.ui.ac.id<br>Internet Source                        |              | 2%             |
| 2                                  | eprints.poltektegal.ac.id<br>Internet Source           |              | 1%             |
| 3                                  | 123dok.com<br>Internet Source                          |              | 1%             |
| 4                                  | www.researchgate.net<br>Internet Source                |              | 1%             |
| 5                                  | perpustakaan.poltekkes-malang.ac.id<br>Internet Source |              | 1%             |
| 6                                  | media.neliti.com<br>Internet Source                    |              | 1%             |
| 7                                  | eprints.umm.ac.id<br>Internet Source                   |              | 1%             |
| 8                                  | repository.ub.ac.id<br>Internet Source                 |              | 1%             |
| 9                                  | dspace.uui.ac.id<br>Internet Source                    |              | 1%             |

## Lampiran 18. CV Penulis

# Aliefia Syera Dinna

Bandung, Jawa Barat, Indonesia • aliefia.syera@gmail.com • 62815- 4893- 4316

Lulusan Sarjana Universitas Bhakti Kencana Bandung jurusan Farmasi (IPK 3,72). Memiliki ketertarikan dibidang entrepreneur farmasi dan bisnis. Mahir problem solving dan berpikir kritis. Memiliki pengetahuan di bidang kosmetik, pengendalian mutu, penjaminan mutu, regulasi dan analisis kefarmasian dan keterampilan dasar di bidang pelayanan kefarmasian.

## PENGALAMAN MAGANG/KERJA

---

### ● Tenaga Teknis Kefarmasian Februari-April 2021

Apotek K-24 Cibaduyut

Pelayanan swamedikasi, melakukan dispensing, dan compounding

UPT Puskesmas Pasirkaliki

Pelayanan posyandu, dispensing, compounding

Rumah Sakit Mata Cicendo

Pelayanan dispensing dan compounding

### ● Asisten Apoteker 2022

Apotek Century Citayam, Depok

Pelayanan swamedikasi, PIO, dan pengadaan

## PENDIDIKAN

---

### ● Universitas Bhakti Kencana Bandung

Diploma 3 Farmasi – IPK 3,76

2018-2021

Sarjana Farmasi – IPK 3,72

2022-2024

## PENGALAMAN ORGANISASI

---

### ● Pemilu Raya (Permira) Universitas Bhakti Kencana Bandung 2020

Wakil Ketua

- Bertanggung jawab membantu dalam pembuatan proposal

- Bertanggung jawab membantu mengorganisir tugas masing-masing divisi

### ● UKM English Conversation Club (ECC) Universitas Bhakti Kencana Bandung 2019-2020

Anggota internal

### ● Kepengurusan Masjid Al-barokah 2024

Anggota divisi PDD (Publikasi, Dokumentasi dan Desain)

## PRESTASI

---

Juara 2 PKM Internal D3 Universitas Bhakti Kencana Bandung 2020

Ketua





