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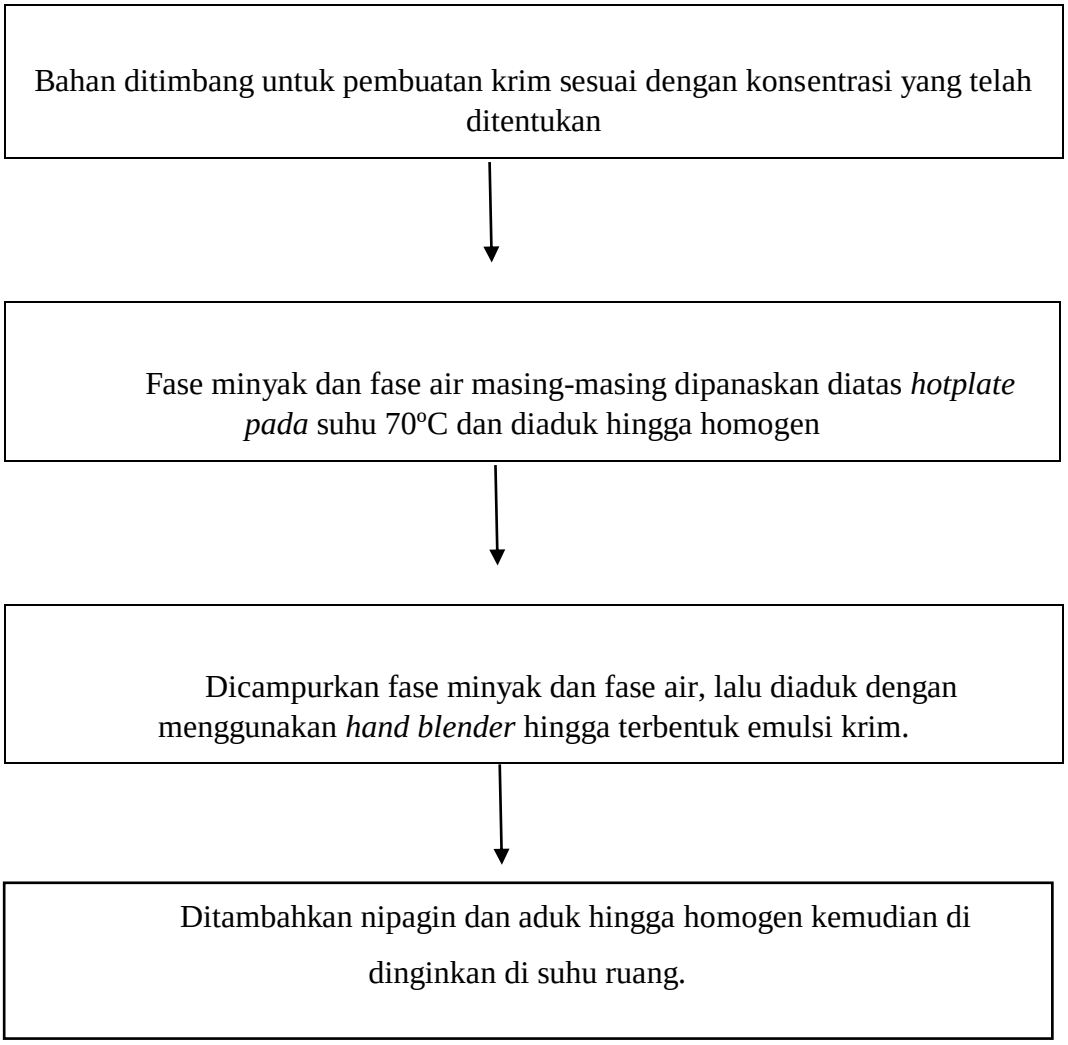
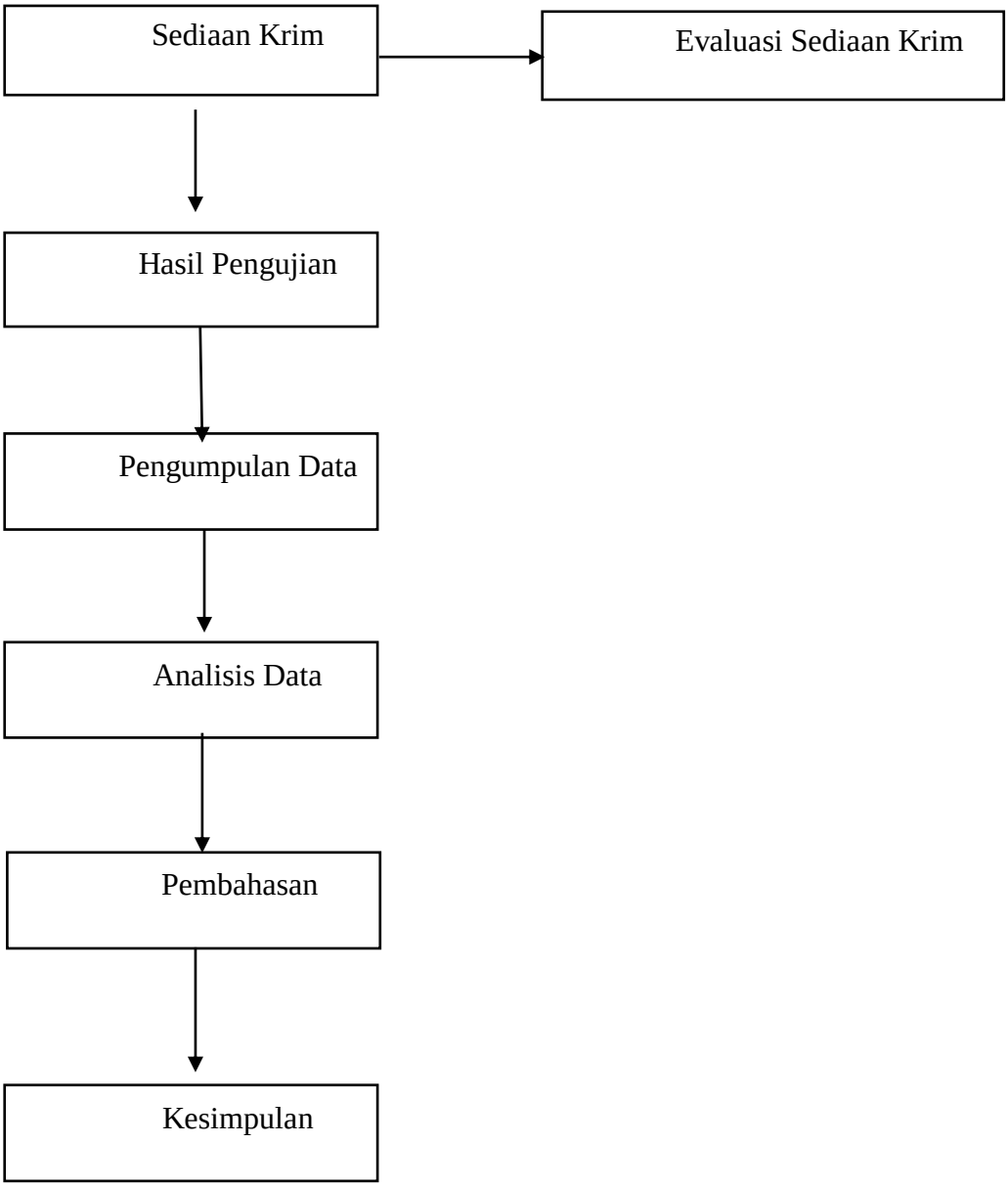
LAMPIRAN

Lampiran 1. Skema Pembuatan Krim Pelembab



Gambar 1. Skema pembuatan krim pelembab

Lampiran 2. Skema Kerja Penelitian



Gambar 2. Skema kerja penelitian

Lampiran 3. Perhitungan Formulasi Sediaan Krim

1. Formulasi Basis

- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 91,3 ml (yang diperlukan)

2. Formulasi 5% *Sweet almond oil*

- *Sweet almond oil* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (5,5 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 85,8 ml (yang diperlukan)

3. Formulasi 10% *Sweet almond oil*

- *Sweet almond oil* = $(\frac{10}{100} \times 100)$ + 10% = 11 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (11 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 80,3 ml (yang diperlukan)

4. Formulasi 15% *Sweet almond oil*

- *Sweet almond oil* = $(\frac{15}{100} \times 100)$ + 10% = 16,5 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (16,5 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 74,8 ml (yang diperlukan)

5. Formulasi 5% *Shea butter*

- *Shea butter* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (5,5 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 85,8 ml (yang diperlukan)

6. Formulasi 10% *Shea butter*

- *Shea butter* = $(\frac{10}{100} \times 100)$ + 10% = 11 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (11 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 80,3 ml (yang diperlukan)

7. Formulasi 15% *Shea butter*

- *Shea butter* = $(\frac{15}{100} \times 100)$ + 10% = 16,5 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (16,5 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 74,8 ml (yang diperlukan)

8. Formulasi 5% *Caprylic/capric tryglyceride*

- *Caprylic/capric tryglyceride* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (5,5 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 85,8 ml (yang diperlukan)

9. Formulasi 10% *Caprylic/capric tryglyceride*

- *Caprylic/capric tryglyceride* = $(\frac{10}{100} \times 100)$ + 10% = 11 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (11 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 80,3 ml (yang diperlukan)

10. Formulasi 15% *Caprylic/capric tryglyceride*

- *Caprylic/capric tryglyceride* = $(\frac{15}{100} \times 100)$ + 10% = 16,5 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (16,5 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 74,8 ml (yang diperlukan)

11. Formulasi 5% *Coco caprylate caprate*

- *Coco caprylate caprate* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (5,5 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 85,8 ml (yang diperlukan)

12. Formulasi 10% *Coco caprylate caprate*

- *Coco caprylate caprate* = $(\frac{10}{100} \times 100)$ + 10% = 11 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (11 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 80,3 ml (yang diperlukan)

13. Formulasi 15% *Coco caprylate caprate*

- *Coco caprylate caprate* = $(\frac{15}{100} \times 100)$ + 10% = 16,5 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (16,5 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 74,8 ml (yang diperlukan)

14. Formulasi 5% Dimetikon

- Dimetikon = $(\frac{5}{100} \times 100)$ + 10% = 5,5 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (5,5 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 85,8 ml (yang diperlukan)

15. Formulasi 10% Dimetikon

- Dimetikon = $(\frac{10}{100} \times 100)$ + 10% = 11 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (11 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 80,3 ml (yang diperlukan)

16. Formulasi 15% Dimetikon

- Dimetikon = $(\frac{15}{100} \times 100)$ + 10% = 16,5 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (16,5 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 74,8 ml (yang diperlukan)

17. Formulasi 5% Isopropil miristat

- Isopropil miristat = $(\frac{5}{100} \times 100)$ + 10% = 5,5 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (5,5 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 85,8 ml (yang diperlukan)

18. Formulasi 10% Isopropil miristat

- Isopropil miristat = $(\frac{10}{100} \times 100)$ + 10% = 11 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (11 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 80,3 ml (yang diperlukan)

19. Formulasi 15% Isopropil miristat

- Isopropil miristat = $(\frac{15}{100} \times 100)$ + 10% = 16,5 ml
- *Ceteareth 25* = $(\frac{5}{100} \times 100)$ + 10% = 5,5 gr
- *Lexemul cs 20* = $(\frac{3}{100} \times 100)$ + 10% = 3,3 gr
- Gliserol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Setil alkohol = $(\frac{2}{100} \times 100)$ + 10% = 2,2 ml
- Asam stearat = $(\frac{4}{100} \times 100)$ + 10% = 4,4 gr
- Nipagin = $(\frac{1}{100} \times 100)$ + 10% = 1,1 gr
- Tea = q.s
- Aquadest = 100 ml + 10% = 110 ml

  = 110 ml – (16,5 + 5,5 + 3,3 + 2,2 + 2,2 + 4,4 + 1,1)

  = 74,8 ml (yang diperlukan)

Lampiran 4. Lembar Informed Cousent Penelitian Kesehatan

SURAT PERNYATAAN PERSETUJUAN IKUT SERTA DALAM PENELITIAN (*INFORMED CONSENT*)

Saya yang bertanda tangan di bawah ini :

Nama Lengkap :
Umur :
Riwayat Alergi :
No. HP :
Alamat :

Dengan ini menyatakan bahwa saya telah memahami penjelasan segala sesuatu mengenai penelitian yang berjudul **"Formulasi dan Evaluasi Bahan Pelembab Alami, Semi Sintetik dan Sintetik dalam Pembuatan Krim Pelembab Kulit"** dan saya bersedia unutk ikut berpartisipasi dalam penelitian ini dengan penuh kesadaran dan tanpa paksaan dari siapapun dengan kondisi:

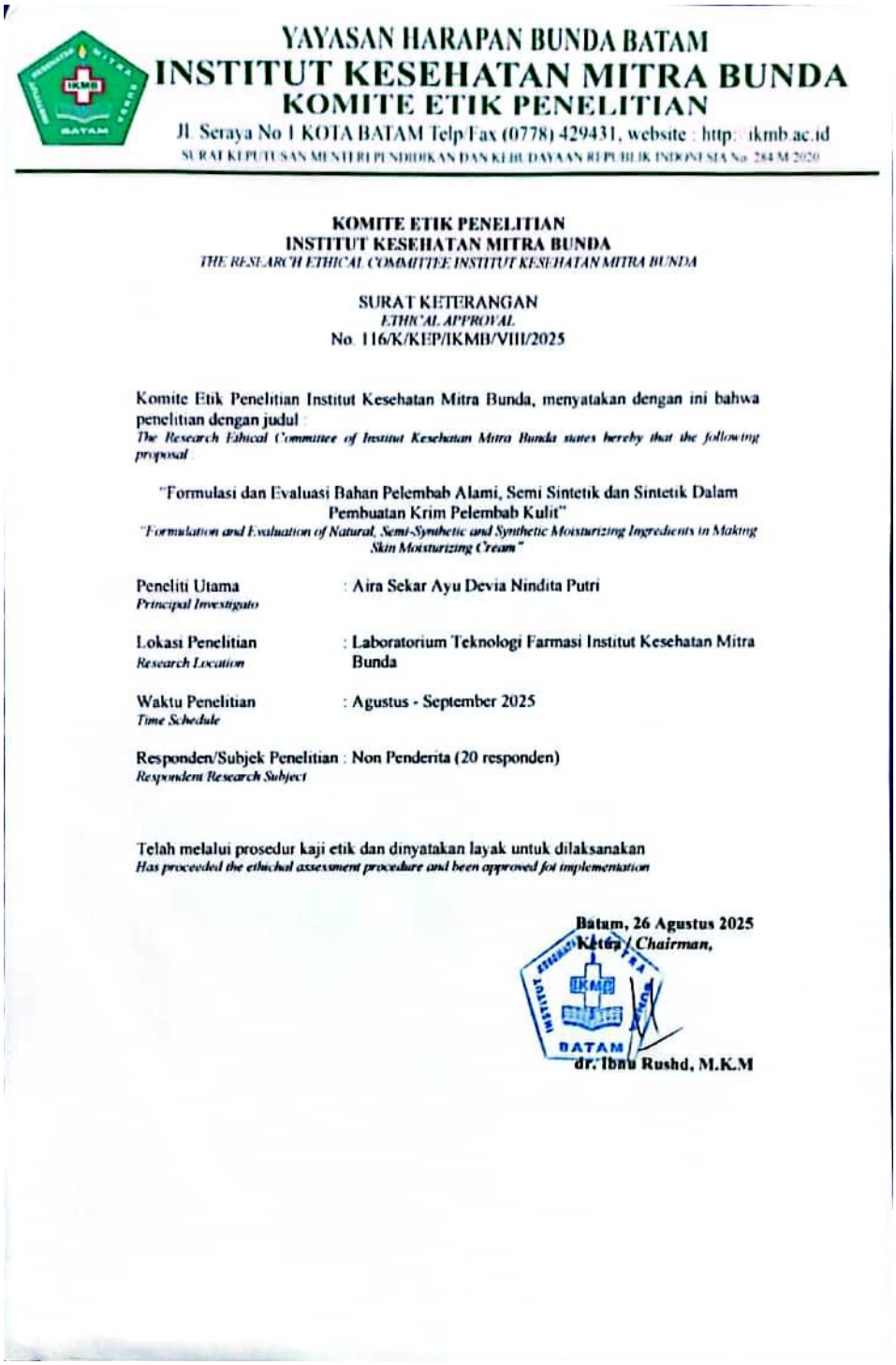
a) Data yang diperoleh dari hasil penelitian ini akan dijaga kerahasiaannya dan hanya dipergunakan untuk kepentingan ilmiah.
b) Apabila saya menginginkan, saya dapat memutuskan untuk tidak berpartisipasi lagi dalam penelitian ini tanpa harus menyampaikan alasan apapun.

Batam, September 2025

Peneliti Sukarelawan

(**Aira Sekar Ayu**) ( )

Lampiran 5. Surat etik penelitian



YAYASAN HARAPAN BUNDA BATAM
INSTITUT KESEHATAN MITRA BUNDA
KOMITE ETIK PENELITIAN
Jl. Seraya No 1 KOTA BATAM Telp/Fax (0778) 429431, website : http://ikmb.ac.id
SURAT KEPUTUSAN MENTERI PENDIDIKAN DAN KEBUDAYAAN REPUBLIK INDONESIA No. 284 M/2020

KOMITE ETIK PENELITIAN
INSTITUT KESEHATAN MITRA BUNDA
THE RESEARCH ETHICAL COMMITTEE INSTITUT KESEHATAN MITRA BUNDA

SURAT KETERANGAN
ETHICAL APPROVAL
No. 116/K/KEP/IKMB/VIII/2025

Komite Etik Penelitian Institut Kesehatan Mitra Bunda, menyatakan dengan ini bahwa penelitian dengan judul :
The Research Ethical Committee of Institut Kesehatan Mitra Bunda states hereby that the following proposal :

"Formulasi dan Evaluasi Bahan Pelembab Alami, Semi Sintetik dan Sintetik Dalam Pembuatan Krim Pelembab Kulit"
"Formulation and Evaluation of Natural, Semi-Synthetic and Synthetic Moisturizing Ingredients in Making Skin Moisturizing Cream"

Peneliti Utama : Aira Sekar Ayu Devia Nindita Putri
Principal Investigato

Lokasi Penelitian : Laboratorium Teknologi Farmasi Institut Kesehatan Mitra Bunda
Research Location

Waktu Penelitian : Agustus - September 2025
Time Schedule

Responden/Subjek Penelitian : Non Penderita (20 responden)
Respondent/Research Subject

Telah melalui prosedur kaji etik dan dinyatakan layak untuk dilaksanakan
Has proceeded the ethichal assessment procedure and been approved for implementation

Batam, 26 Agustus 2025
Ketua / *Chairman*,

dr. Ibnu Rushd, M.K.M

Lampiran 6. Alat Skin Moisture Analyzer

Lampiran 7. Hasil uji organoleptis sediaan krim

Tabel 1. Hasil organoleptis sediaan krim tanpa minyak (blangko)

Uji	Sebelum *cycling test*	Sesudah *cycling test*
	Blangko	Blangko
Organoleptis	Krim semi padat Tidak berbau Putih susu	Krim semi padat Tidak berbau Putih susu

Tabel 2. Hasil uji organoleptis sediaan krim *sweet almond oil*

Uji	Sebelum *cycling test*		
	Sweet almond oil 5% (A.1)	*Sweet almond oil 10%* (A.2)	*Sweet almond oil 15%* (A.3)
Organoleptis	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu
Sesudah *cycling test*			
Organoleptis	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu

Tabel 3. Hasil uji organoleptis sediaan krim *shea butter*

Uji	Sebelum *cycling test*		
	Shea butter 5% (B.1)	*Shea butter 10%* (B.2)	*Shea butter 15%* (B.3)
Organoleptis	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu
Sesudah *cycling test*			
Organoleptis	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu

Tabel 4. Hasil uji organoleptis sediaan krim *caprylic/capric tryglyceride*

Uji	Sebelum *cycling test*		
	Caprylic/capric tryglyceride 5% (C.1)	*Caprylic/capric tryglyceride* 10% (C.2)	*Caprylic/capric tryglyceride* 15% (C.3)
Organoleptis	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu
Sesudah *cycling test*			
Organoleptis	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu

Tabel 5. Hasil uji organoleptis sediaan krim *Coco caprylate caprate*

Uji	Sebelum *cycling test*		
	Coco caprylate caprate 5% (D.1)	*Coco caprylate caprate* 10% (D.2)	*Coco caprylate caprate* 15% (D.3)
Organoleptis	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu
Sesudah *cycling test*			
Organoleptis	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu

Tabel 6. Hasil uji organoleptis sediaan krim dimetikon

Uji	Sebelum *cycling test*		
	Dimetikon 5% (E.1)	Dimetikon 10% (E.2)	Dimetikon 15% (E.3)
Organoleptis	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu
Sesudah *cycling test*			
Organoleptis	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu

Tabel 7. Hasil uji organoleptis sediaan krim isopropil miristat

Uji	Sebelum *cycling test*		
	Isopropil miristat 5% (F.1)	Isopropil miristat 10% (F.2)	Isopropil miristat 15% (F.3)
Organoleptis	Krim semi padat Bau khas Putih susu	Krim semi padat Bau khas Putih susu	Kental cair Bau khas Putih susu
Sesudah *cycling test*			
Organoleptis	Krim semi padat Bau khas Putih susu	Kental agak cair Bau khas Putih susu	Kental cair Bau khas Putih susu

Lampiran 8. Hasil uji pH sediaan krim

Tabel 8. Hasil uji pH sediaan krim sebelum dan sesudah *cycling test*

Formulasi	Uji Ph	
	Sebelum *cycling test*	Sesudah *cycling test*
Basis	6.50	6.46
Sweet almond oil 5%	6.18	6.26
Sweet almond oil 10%	6.41	6.38
Sweet almond oil 15%	6.43	6.36
Shea butter 5%	6.42	6.37
Shea butter 10%	6.24	6.14
Shea butter 15%	6.47	6.31
Caprylic/capric tryglyceride 5%	6.30	6.13
Caprylic/capric tryglyceride 10%	6.40	6.20
Caprylic/capric tryglyceride 15%	6.47	6.34
Coco caprylate caprate 5%	6.34	6.18
Coco caprylate caprate 10%	6.39	6.35
Coco caprylate caprate 15%	6.46	6.30
Dimetikon 5%	6.06	6.17
Dimetikon 10%	6.18	6.48
Dimetikon 15%	6.33	6.25
Isopropil miristat 5%	6.50	6.37
Isopropil miristat 10%	6.48	6.38
Isopropil miristat 15%	6.50	6.47

Lampiran 9. Hasil uji homogenitas sediaan krim

Tabel 9. Hasil uji homogenitas sediaan krim sebelum dan sesudah *cycling test*

Formulasi	Uji homogenitas	
	Sebelum *cycling test*	Sesudah *cycling test*
Basis	Homogen	Homogen
Sweet almond oil 5%	Homogen	Homogen
Sweet almond oil 10%	Homogen	Homogen
Sweet almond oil 15%	Homogen	Homogen
Shea butter 5%	Homogen	Homogen
Shea butter 10%	Homogen	Homogen
Shea butter 15%	Homogen	Homogen
Caprylic/capric tryglyceride 5%	Homogen	Homogen
Caprylic/capric tryglyceride 10%	Homogen	Homogen
Caprylic/capric tryglyceride 15%	Homogen	Homogen
Coco caprylate caprate 5%	Homogen	Homogen
Coco caprylate caprate 10%	Homogen	Homogen
Coco caprylate caprate 15%	Homogen	Homogen
Dimetikon 5%	Tidak homogen	Tidak homogen
Dimetikon 10%	Tidak homogen	Tidak homogen
Dimetikon 15%	Tidak homogen	Tidak homogen
Isopropil miristat 5%	Homogen	Homogen
Isopropil miristat 10%	Homogen	Homogen
Isopropil miristat 15%	Homogen	Homogen

Lampiran 10. Hasil uji daya sebar sediaan krim

Tabel 10. Hasil uji daya sebar sediaan krim sebelum dan sesudah *cycling test*

Formulasi	Uji daya sebar (cm)	
	Sebelum *cycling test*	Sesudah *cycling test*
Basis	6.47	6.49
Sweet almond oil 5%	5.69	5.66
Sweet almond oil 10%	5.63	5.55
Sweet almond oil 15%	5.37	5.22
Shea butter 5%	5.23	5.24
Shea butter 10%	5.35	5.23
Shea butter 15%	5.42	5.03
Caprylic/capric tryglyceride 5%	5.77	5.52
Caprylic/capric tryglyceride 10%	5.20	5.05
Caprylic/capric tryglyceride 15%	5.05	4.87
Coco caprylate caprate 5%	5.27	5.27
Coco caprylate caprate 10%	5.38	5.29
Coco caprylate caprate 15%	5.99	5.52
Dimetikon 5%	5.07	5.07
Dimetikon 10%	5.21	5.06
Dimetikon 15%	5.21	5.21
Isopropil miristat 5%	6.19	6.21
Isopropil miristat 10%	6.19	6.21
Isopropil miristat 15%	5.91	5.92

Lampiran 11. Hasil uji daya lekat sediaan krim

Tabel 11. Hasil uji daya lekat sediaan krim sebelum dan sesudah *cycling test*

Formulasi	Uji daya lekat (detik)	
	Sebelum *cycling test*	Sesudah *cycling test*
Basis	05,94	06.02
Sweet almond oil 5%	04,66	04,67
Sweet almond oil 10%	05,13	05,13
Sweet almond oil 15%	06,02	06,02
Shea butter 5%	04,20	04,20
Shea butter 10%	05,46	05,67
Shea butter 15%	05,51	06,11
Caprylic/capric tryglyceride 5%	04,78	04,80
Caprylic/capric tryglyceride 10%	04,71	04,73
Caprylic/capric tryglyceride 15%	04,96	05,01
Coco caprylate caprate 5%	04,25	04,26
Coco caprylate caprate 10%	04,58	04,60
Coco caprylate caprate 15%	04,80	04,80
Dimetikon 5%	05,95	05,95
Dimetikon 10%	05,71	05,71
Dimetikon 15%	06,66	06,66
Isopropil miristat 5%	04,91	04,91
Isopropil miristat 10%	04,51	04,51
Isopropil miristat 15%	04,50	04,50

Lampiran 12. Hasil uji viskositas sediaan krim

Tabel 12. Hasil uji viskositas sediaan krim sebelum *cycling test*

Formulasi	Replikasi	Sebelum	rata-rata ± SD	%RSD
Basis	1	5000	4766.66 ± 251.661	5.2796045
	2	4800		
	3	4500		
A1	1	14600	15633.33 ± 1167.61	7.46877607
	2	15400		
	3	16900		
A2	1	15700	15466.66 ± 404.145	2.61300768
	2	15000		
	3	15700		
A3	1	17000	17966.66 ± 850.490	4.73371088
	2	18300		
	3	18600		
B1	1	16800	16200 ± 871.779	5.38135672
	2	15200		
	3	16600		
B2	1	20000	20000 ± 0	0
	2	20000		
	3	20000		
B3	1	20000	19966.66 ± 57.735	0.28915706
	2	20000		
	3	19900		
C1	1	11800	11233.33 ± 550.757	4.90288179
	2	10700		
	3	11200		
C2	1	11800	11600 ± 200	1.72413793
	2	11600		
	3	11400		
C3	1	17300	16833.33 ± 568.62	3.37796477
	2	16200		
	3	17000		
D1	1	15100	16200 ± 964.36	5.95287084
	2	16600		
	3	16900		

Formulasi	Replikasi	Sebelum	rata-rata ± SD	%RSD
D2	1	13200	13000 ± 200	1.53846154
	2	13000		
	3	12800		
D3	1	10800	9833.33 ± 907.377	9.22756447
	2	9700		
	3	9000		
E1	1	18100	18700 ± 556.776	2.9774141
	2	19200		
	3	18800		
E2	1	17300	17033.33 ± 251.661	1.47746271
	2	17000		
	3	16800		
E3	1	20000	19966.66 ± 57.735	0.28915706
	2	20000		
	3	19900		
F1	1	15700	15366.66 ± 305.505	1.98810225
	2	15300		
	3	15100		
F2	1	2700	2833.33 ± 115.470	4.07541366
	2	2900		
	3	2900		
F3	1	4000	3433.33 ± 493.288	14.36762
	2	3200		
	3	3100		

Tabel 13. Hasil uji viskositas sediaan krim sesudah *cycling test*

Formulasi	Replikasi	Sesudah	rata-rata ± SD	%RSD
Basis	1	6800	6800 ± 0	0
	2	6800		
	3	6800		
A1	1	15800	16066.66 ± 737.111	4.587830786
	2	15500		
	3	16900		
A2	1	13900	13800 ± 264.575	1.917211095
	2	14000		
	3	13500		
A3	1	19900	19966.66 ± 57.735	0.289157063
	2	20000		
	3	20000		
B1	1	12000	12500 ± 435.889	3.487119155
	2	12700		
	3	12800		
B2	1	19300	19766.66 ± 404.145	2.044579368
	2	20000		
	3	20000		
B3	1	20000	20000 ± 0	0
	2	20000		
	3	20000		
C1	1	11600	11333.33 ± 378.593	3.340534321
	2	11500		
	3	10900		
C2	1	10600	10400 ± 200	1.923076923
	2	10200		
	3	10400		
C3	1	12200	11933.33 ± 378.593	3.172574495
	2	11500		
	3	12100		
D1	1	17300	17100 ± 264.575	1.547222989
	2	16800		
	3	17200		
D2	1	10800	105333.33 ± 230.940	2.192469377
	2	10400		
	3	10400		
D3	1	8900	8700 ± 173.205	1.990862997

Formulasi	Replikasi	Sesudah	rata-rata ± SD	%RSD
	2	8600		
	3	8600		
E1	1	15700	16000 ± 264.575	1.653594569
	2	16200		
	3	16100		
E2	1	8200	8033.33 ± 152.752	1.901483691
	2	8000		
	3	7900		
E3	1	16100	15233.33 ± 776.745	5.098984769
	2	14600		
	3	15000		
F1	1	8600	8466.66 ± 152.752	1.804163659
	2	8300		
	3	8500		
F2	1	2000	1933.33 ± 115.470	5.972588992
	2	1800		
	3	2000		
F3	1	4500	4266.66 ± 208.166	4.878904686
	2	4100		
	3	4200		

Lampiran 13. Hasil uji sentrifugasi

Tabel 14. Hasil uji sentrifugasi

Formula	Terjadi pemisahan fase
Basis	-
Sweet almond oil 5%	-
Sweet almond oil 10%	-
Sweet almond oil 15%	-
Shea butter 5%	-
Shea butter 10%	-
Shea butter 15%	-
Caprylic/capric tryglyceride 5%	-
Caprylic/capric tryglyceride 10%	-
Caprylic/capric tryglyceride 15%	-
Coco caprylate caprate 5%	-
Coco caprylate caprate 10%	-
Coco caprylate caprate 15%	-
Dimetikon 5%	-
Dimetikon 10%	-
Dimetikon 15%	-
Isopropil miristat 5%	+
Isopropil miristat 10%	+
Isopropil miristat 15%	+

Keteranngan:

(-) = Tidak terjadi pemisahan fase

(+) = Terjadi pemisahan fase

Lampiran 14. **Hasil uji kelembapan**

Tabel 15. Hasil uji kelembapan pada formula dasar (blangko)

formulasi	Awal (0 menit)	15 menit	30 menit	1 jam	2 jam	3 jam	4 jam	5 jam	6 jam
basis	38%	44%	41%	39%	36%	36%	36%	36%	36%
basis	36%	45%	40%	39%	36%	36%	36%	36%	36%
basis	39%	44%	41%	40%	36%	36%	36%	36%	36%
basis	41%	44%	43%	40%	39%	39%	39%	39%	39%
basis	32%	38%	37%	35%	35%	35%	35%	35%	34%
basis	31%	35%	35%	34%	34%	33%	33%	32%	32%
basis	36%	42%	42%	40%	40%	39%	39%	39%	39%
basis	41%	45%	40%	39%	36%	36%	36%	36%	36%
basis	46%	48%	48%	45%	44%	43%	42%	41%	40%
basis	45%	46%	46%	45%	45%	44%	44%	43%	42%
basis	37%	38%	37%	35%	35%	35%	35%	35%	34%
Rata-rata	38%	43%	41%	39%	28%	37%	37%	37%	37%

Tabel 16. Hasil uji kelembapan sediaan krim yang menggunakan bahan pelembab *sweet almond oil* 5% (A1)

Formulasi	Awal (0 menit)	15 menit	30 menit	1 jam	2 jam	3 jam	4 jam	5 jam	6 jam
A1	32%	36%	39%	35%	33%	33%	33%	33%	33%
A1	26%	39%	39%	39%	36%	36%	36%	36%	36%
A1	44%	49%	48%	45%	45%	44%	44%	44%	44%

Tabel 17. Hasil uji kelembapan sediaan krim yang menggunakan bahan pelembab *sweet almond oil* 10% (A2)

Formulasi	Awal (0 menit)	15 menit	30 menit	1 jam	2 jam	3 jam	4 jam	5 jam	6 jam
A2	32%	38%	39%	36%	36%	35%	35%	34%	34%
A2	20%	39%	39%	39%	41%	38%	37%	36%	36%
A2	41%	44%	42%	40%	40%	40%	39%	39%	39%

Tabel 18. Hasil uji kelembapan sediaan krim yang menggunakan bahan pelembab sweet almond oil 15% (A3)

Formulasi	Awal (0 menit)	15 menit	30 menit	1 jam	2 jam	3 jam	4 jam	5 jam	6 jam
A3	39%	41%	39%	39%	39%	39%	39%	39%	39%
A3	24%	41%	41%	44%	41%	41%	40%	39%	39%
A3	45%	48%	48%	45%	45%	45%	45%	45%	45%

Tabel 19. Hasil rata-rata pengujian kelembapan sediaan krim yang menggunakan bahan pelembab *sweet almond oil*

Waktu	A1	A2	A3
0 menit	34%	31%	36%
15 menit	41%	40%	43%
30 menit	42%	40%	43%
1 jam	40%	38%	43%
2 jam	38%	39%	42%
3 jam	38%	38%	42%
4 jam	38%	37%	41%
5 jam	38%	36%	41%
6 jam	38%	36%	41%

Tabel 20. Hasil uji kelembapan sediaan krim yang menggunakan bahan pelembab *shea butter* 5% (B1)

Formulasi	Awal (0 menit)	15 menit	30 menit	1 jam	2 jam	3 jam	4 jam	5 jam	6 jam
B1	32%	39%	39%	39%	39%	39%	39%	39%	39%
B1	44%	45%	43%	43%	43%	43%	43%	43%	43%
B1	39%	45%	45%	45%	45%	45%	45%	45%	45%

Tabel 21. Hasil uji kelembapan sediaan krim yang menggunakan bahan pelembab *shea butter* 10% (B2)

Formulasi	Awal (0 menit)	15 menit	30 menit	1 jam	2 jam	3 jam	4 jam	5 jam	6 jam
B2	32%	40%	40%	42%	42%	42%	42%	42%	42%
B2	41%	45%	44%	44%	44%	44%	44%	44%	44%
B2	42%	45%	45%	45%	45%	45%	45%	45%	45%

Tabel 22. Hasil uji kelembapan sediaan krim yang menggunakan bahan pelembab *shea butter* 15% (B3)

Formulasi	Awal (0 menit)	15 menit	30 menit	1 jam	2 jam	3 jam	4 jam	5 jam	6 jam
B3	42%	52%	52%	51%	51%	51%	50%	50%	50%
B3	44%	50%	50%	49%	48%	48%	47%	46%	45%
B3	39%	48%	48%	47%	47%	47%	46%	46%	46%

Tabel 23. Hasil rata-rata pengujian kelembapan sediaan krim yang menggunakan bahan pelembab *shea butter*

Waktu	B1	B2	B3
0 menit	38%	38%	38%
15 menit	43%	43%	46%
30 menit	42%	43%	46%
1 jam	42%	44%	46%
2 jam	42%	44%	45%
3 jam	42%	44%	44%
4 jam	42%	44%	44%
5 jam	42%	44%	44%
6 jam	42%	44%	44%

Tabel 24. Hasil uji kelembapan sediaan krim yang menggunakan bahan pelembab *caprylic/capric tryglyceride* 5% (C1)

Formulasi	Awal (0 menit)	15 menit	30 menit	1 jam	2 jam	3 jam	4 jam	5 jam	6 jam
C1	41%	48%	44%	44%	43%	43%	43%	43%	43%
C1	36%	44%	44%	43%	43%	43%	42%	42%	42%
C1	32%	36%	36%	35%	30%	30%	30%	30%	30%

Tabel 25. Hasil uji kelembapan sediaan krim yang menggunakan bahan pelembab *caprylic/capric tryglyceride* 10% (C2)

Formulasi	Awal (0 menit)	15 menit	30 menit	1 jam	2 jam	3 jam	4 jam	5 jam	6 jam
C2	36%	44%	41%	40%	40%	39%	39%	39%	39%
C2	10%	41%	41%	40%	36%	36%	35%	35%	35%
C2	39%	46%	46%	40%	40%	39%	39%	39%	39%

Tabel 26. Hasil uji kelembapan sediaan krim yang menggunakan bahan pelembab *caprylic/capric tryglyceride* 15% (C3)

Formulasi	Awal (0 menit)	15 menit	30 menit	1 jam	2 jam	3 jam	4 jam	5 jam	6 jam
C3	31%	41%	41%	40%	40%	40%	40%	40%	40%
C3	44%	46%	45%	45%	45%	45%	45%	45%	45%
C3	39%	46%	46%	46%	46%	46%	46%	46%	46%

Tabel 27. Hasil rata-rata pengujian kelembapan sediaan krim yang menggunakan bahan pelembab *caprylic/capric tryglyceride*

Waktu	C1	C2	C3
0 menit	36%	28%	38%
15 menit	43%	44%	44%
30 menit	41%	43%	44%
1 jam	41%	40%	43%
2 jam	39%	39%	42%
3 jam	39%	38%	41%
4 jam	38%	38%	40%
5 jam	38%	38%	40%
6 jam	38%	38%	40%

Tabel 28. Hasil uji kelembapan sediaan krim yang menggunakan bahan pelembab *coco caprylate caprate* 5% (D1)

Formulasi	Awal (0 menit)	15 menit	30 menit	1 jam	2 jam	3 jam	4 jam	5 jam	6 jam
D1	40%	39%	40%	39%	39%	39%	39%	39%	39%
D1	42%	43%	44%	44%	43%	39%	39%	39%	39%
D1	36%	40%	40%	39%	38%	38%	37%	37%	36%

Tabel 29. Hasil uji kelembapan sediaan krim yang menggunakan bahan pelembab *coco caprylate caprate* 10% (D2)

Formulasi	Awal (0 menit)	15 menit	30 menit	1 jam	2 jam	3 jam	4 jam	5 jam	6 jam
D2	41%	42%	42%	41%	41%	40%	40%	40%	40%
D2	36%	42%	42%	41%	41%	40%	40%	40%	39%
D2	36%	40%	40%	39%	39%	39%	39%	39%	39%

Tabel 30. Hasil uji kelembapan sediaan krim yang menggunakan bahan pelembab *coco caprylate caprate* 15% (D3)

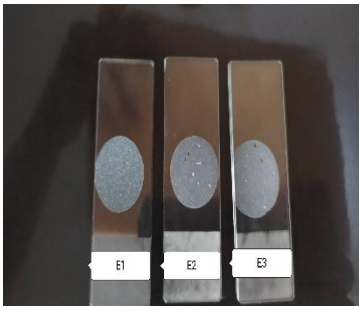
Formulasi	Awal (0 menit)	15 menit	30 menit	1 jam	2 jam	3 jam	4 jam	5 jam	6 jam
D3	41%	45%	45%	45%	45%	45%	45%	44%	44%
D3	32%	39%	40%	40%	39%	38%	38%	38%	38%
D3	36%	40%	41%	41%	41%	41%	41%	41%	41%

Tabel 31. Hasil rata-rata pengujian kelembapan sediaan krim yang menggunakan bahan pelembab *coco caprylate caprate*

Waktu	D1	D2	D3
0 menit	39%	38%	36%
15 menit	41%	41%	41%
30 menit	41%	41%	42%
1 jam	41%	40%	42%
2 jam	40%	40%	42%
3 jam	39%	40%	41%
4 jam	38%	40%	41%
5 jam	38%	40%	41%
6 jam	38%	39%	41%

Lampiran 15. Dokumentasi

Gambar	Keterangan
	Penimbangan bahan *Ceteareth 25*
	Penimbangan bahan *lexemul cs-20*
	Penimbangan setil alkohol
	Penimbangan gliserin
	Penimbangan nipagin

	Penimbangan asam stearate
	Hasil sediaan krim pelembab kulit
	Pengujian homogenitas sediaan
	Pengujian pH sediaan
	Pengujian viskositas sediaan

	Pengujian *cycling test* pada suhu 4ºC
	Pengujian *cycling test* pada suhu 40 ºC
	Pengujian kelembapan sediaan krim pada panelis