

BAB V

KESIMPULAN DAN SARAN

A. Kesimpulan

Berdasarkan hasil penelitian dapat disimpulkan bahwa:

Pertama, ekstrak etanol daun cocor bebek (*Kalanchoe pinnata* Pers.) dapat diformulasikan dalam bentuk salep.

Kedua, salep ekstrak etanol daun cocor bebek (*Kalanchoe pinnata* Pers.) memiliki efek sebagai obat luka bakar

Ketiga, salep ekstrak etanol daun cocor bebek (*Kalanchoe pinnata* Pers.) formula I (vaselin putih 50:50 parafin cair) paling efektif sebagai obat luka bakar.

B. Saran

Saran pada penelitian ini adalah:

Perlu dilakukan penelitian salep ekstrak etanol daun cocor (*Kalanchoe pinnata* Pers.) sebagai obat luka bakar dengan basis salep lain.

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Lampiran 1. Hasil determinasi



No : 380/DET/UPT-LAB/23/IV/2019

Hal : Surat Keterangan Determinasi Tumbuhan

Menerangkan bahwa :

Nama : Maria Imaculata Lewomuda

NIM : 21154546 A

Fakultas : Farmasi Universitas Setia Budi

Telah mendeterminasikan tumbuhan : **Cocor bebek (*Kalanchoe pinnata* Pers.** Determinasi berdasarkan Steenis: FLORA

1b – 2b – 3b – 4b – 6b – 7b – 9b – 10b – 11b – 12b – 13b – 14b – 16a. golongan 10. 239b – 243b – 244b – 248b – 249b – 250b – 266b – 267b – 273b – 276b – 278b – 279a – 280b – 281b. familia 56. Crassulaceae. 1. *Kalanchoe*. ***Kalanchoe pinnata* Pers.**

Deskripsi :

Habitus : Herba berdaging, umumnya berumur panjang, pada pangkalnya agak berkayu, tegak, tinggi 0,3 – 2 m, gundul.

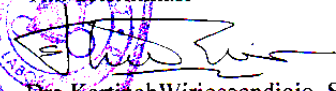
Akar : Sistem akar tunggang.

Batang : Batang segi empat tumpul atau hampir membulat.

Daun : Tunggal, berhadapan, memanjang atau oval, ujung tumpul, tepi beringgit, panjang 8 – 16 cm, lebar 3 – 12 cm. Daun penumpu tidak ada.

Bunga : Bunga beraturan, berkelamin dua; berbilangan empat, menggantung, pada malai yang tidak rapat. Kelopak berdaun 4 – 5, lekat, bulat silindris, melembung, panjang 1,5 – 4 cm, taju pendek. Mahkota bersatu, bertaju 4, bentuk periuk atau lonceng, jelas menyempit di atas pangkal yang melebar, di atasnya lagi melebar, panjang 3,5 – 5,5 cm, bagian yang muncul di atas kelopak merah, pangkal tabung dengan 8 lipatan yang dalam, taju bulat telur bentuk lanset, bentuk ekor yang meruncing. Benang sari 8, dua lingkaran, tertancap pada mahkota. Tangkai putik panjang. Bakal buah 4, menumpang.

Pustaka : Steenis C.G.G.J., Bloembergen S. Eyma P.J. (1978): *FLORA*, PT Pradnya Paramita. Jl. Kebon Sirih 46. Jakarta Pusat, 1978.

Surakarta, 23 April 2019
Tim determinasi

Dra. Kartinah Wirjosoendjojo, SU.

Lampiran 2. Ethical clearance

3/29/2019

Form A2



HEALTH RESEARCH ETHICS COMMITTEE
KOMISI ETIK PENELITIAN KESEHATAN
Dr. Moewardi General Hospital
RSUD Dr. Moewardi



School of Medicine Sebelas Maret University
Fakultas Kedokteran Universitas Sebelas Maret

ETHICAL CLEARANCE
KELAIKAN ETIK

Nomor : 389 / III / HREC /2019

The Health Research Ethics Committee Dr. Moewardi General Hospital / School of Medicine Sebelas
 Komisi Etik Penelitian Kesehatan RSUD Dr. Moewardi / Fakultas Kedokteran Universitas Sebelas Maret

Maret University Of Surakarta, after reviewing the proposal design, herewith to certify
 Surakarta, setelah menilai rancangan penelitian yang diusulkan, dengan ini menyatakan

That the research proposal with topic :
 Bahwa usulan penelitian dengan judul

FORMULASI SALEP EKSTRAK ETANOL DAUN COCOR BEBEK (Kalanchoe pinnata) SEBAGAI ANTI LUKA
BAKAR PADA KELINCI New Zealand

Principal investigator : Maria Imaculata Lewomuda
 Peneliti Utama : 21154578A

Location of research : Universitas Setia Budi Surakarta
 Lokasi Tempat Penelitian :

Is ethically approved
 Dinyatakan layak etik

Issued on : 29 Mar 2019

Chairman
 Ketua

Dr. Wahyu Dwi Atmoko, SpF
 NIP. 19770224 201001 1 004

Lampiran 3. Perhitungan rendemen

1. Rendemen daun kering terhadap daun basah

Jumlah bahan		Rendemen
Daun basah	Daun kering	
7000 g	350 g	5%

$$\text{Rendemen} = \frac{\text{berat daun kering}}{\text{berat daun basah}} \times 100\%$$

2. Rendemen serbuk terhadap daun kering

Jumlah bahan		Rendemen
Daun kering	Serbuk	
350 g	300 g	85,71%

$$\text{Rendemen} = \frac{\text{berat serbuk}}{\text{berat daun kering}} \times 100\%$$

3. Rendemen ekstrak kental terhadap serbuk

Jumlah bahan		Rendemen
Serbuk	Ekstrak kental	
270 g	59,2 g	21,92%

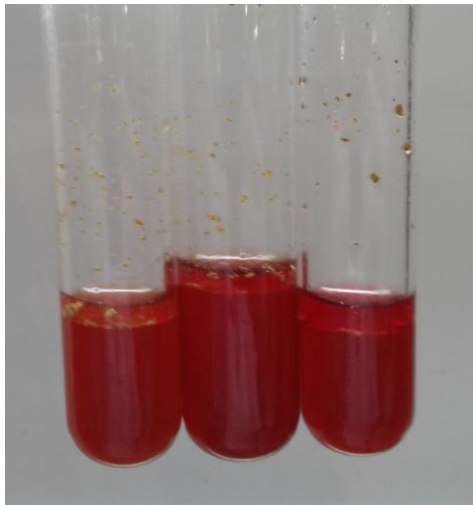
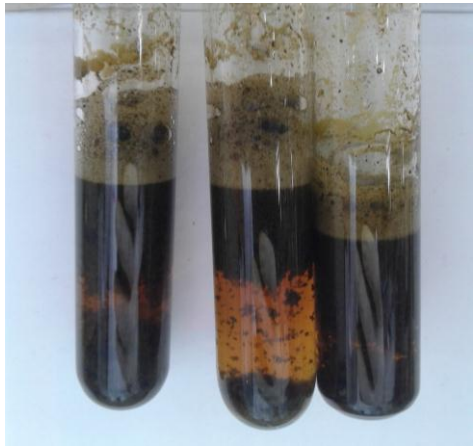
$$\text{Rendemen} = \frac{\text{berat ekstrak kental}}{\text{berat serbuk}} \times 100\%$$

Lampiran 4. Pengukuran kadar kelembaban

Simplisia	Berat	Susut pengeringan (%)
Daun cocor bebek	2,00 g	10,9
	2,00 g	11
	2,01 g	11
Rata-rata	10,96	

Lampiran 5. Skrining fitokimia pada ekstrak

Senyawa	Pustaka (Sumiati dkk 2017)	Hasil	Keterangan
Flavonoid	Warna jingga hingga merah ungu	Terbentuk warna merah pada lapisan amil alkohol	+
Saponin	Terbentuk busa yang stabil	Terbentuk busa yang stabil	+
Tanin	Warna hijau kecoklatan atau biru kehitaman	Terbentuk warna hijau pekat	+

Senyawa	Hasil
Flavonoid	
Saponin	

Tanin



Lampiran 6. Perhitungan Penimbangan bahan

Penimbangan bahan untuk pembuatan salep

Formula	Ekstrak daun cocor bebek	Vaselin album	Paraffin cair
I	2,5 g	23,75 g	23,75 g
II	2,5 g	33,25 g	15,25 g
III	2,5 g	42,75 g	4,75 g
	Jumlah	50 g	

Perhitungan

1. Formula I

Perbandingan Vaselin album dan paraffin cair 50 : 50

- **Ekstrak**

Ekstrak daun cocor bebek yang digunakan 2,5 gram sehingga jumlah basis salep

$$50 \text{ g} - 2,5 \text{ g} = 47,5 \text{ g}$$

- **Vaselin album**

$$\frac{50}{100} \times 47,5 \text{ g} = 23,75 \text{ g}$$

- **Paraffin cair**

$$\frac{50}{100} \times 47,5 \text{ g} = 23,75 \text{ g}$$

2. Formula II

perbandingan Vaselin album dan Paraffin cair 70 : 30

- **Ekstrak**

Ekstrak daun cocor bebek yang digunakan 2,5 gram sehingga jumlah basis salep

$$50 \text{ g} - 2,5 \text{ g} = 47,5 \text{ g}$$

- **Vaselin album**

$$\frac{70}{100} \times 47,5 \text{ g} = 33,25 \text{ g}$$

- **Paraffin cair**

$$\frac{30}{100} \times 47,5 \text{ g} = 14,25 \text{ g}$$

3. Formula III

- **Ekstrak**

Ekstrak daun cocor bebek yang digunakan 2,5 gram sehingga jumlah basis salep

$$50 \text{ g} - 2,5 \text{ g} = 47,5 \text{ g}$$

- **Vaselin album**

$$\frac{90}{100} \times 47,5 \text{ g} = 42,75 \text{ g}$$

- **Paraffin cair**

$$\frac{10}{100} \times 47,5 \text{ g} = 4,75 \text{ g}$$

Lampiran 7. Uji mutu fisik sediaan salep

1. Uji homogenitas

Formula	Hasil
I	Homogen
II	Homogen
III	Homogen
IV	Homogen

2. Pengamatan organoleptis

Formula	Warna	Bentuk	Bau
I	Hijau tua	Semi padat	Khas
II	Hijau tua	Semi padat	khas
III	Hijau tua	Semi padat	khas
IV	Putih	Semi padat	Tidak berbau

3. Uji Viskositas

Replikasi	Formula I	Formula II	Formula III	Formula IV
1	25 dpas	125 dpas	300 dpas	150 dpas
2	25 dpas	150 dpas	300 dpas	150 dpas
3	25 dpas	150 dpas	280 dpas	150 dpas
Rata-rata	25 dpas	141,67 dpas	293 dpas	150 dpas

4. Uji pH

Formula	Hasil
I	5,79
II	5,08
III	5,21
IV	6,5

5. Uji daya sebar

Formula I								
Replikasi 1			Replikasi 2			Replikasi 3		
Tanpa beban	50 g	100 g	Tanpa beban	50 g	100 g	Tanpa beban	50 g	100 g
3,9	4,6	5,1	3,9	4,4	4,6	3,9	4,4	4,8
3,9	4,7	5	4,0	4,5	4,7	3,9	4,2	4,5
3,9	4,6	4,9	4,0	4,4	4,7	3,8	4,2	4,5
4,0	4,6	5	3,9	4,2	4,6	4,1	4,5	4,7

Formula II								
Replikasi 1			Replikasi 2			Replikasi 3		
Tanpa beban	50 g	100 g	Tanpa beban	50 g	100 g	Tanpa beban	50 g	100 g
2,9	3,4	3,6	3	3,6	3,9	3,2	3,6	3,9
2,9	3,5	3,5	3	3,6	3,9	3	3,6	3,9
3	3,3	3,8	3,1	3,5	3,8	3,1	3,6	3,9
3,1	3,4	3,7	3	3,5	3,9	3,2	3,6	3,9

Formula III								
Replikasi 1			Replikasi 2			Replikasi 3		
Tanpa beban	50 g	100 g	Tanpa beban	50 g	100 g	Tanpa beban	50 g	100 g
3	3,6	3,7	2,9	3,4	3,9	2,8	3,3	3,7
3,3	3,7	3,8	2,9	3,3	3,7	2,9	3,4	3,8
3,1	3,7	3,8	2,8	3,5	3,6	2,8	3,4	3,7
3,1	3,8	3,9	2,9	3,5	3,8	2,7	3,3	3,6

Formula IV								
Replikasi 1			Replikasi 2			Replikasi 3		
Tanpa beban	50 g	100 g	Tanpa beban	50 g	100 g	Tanpa beban	50 g	100 g
2,9	3,4	3,6	2,8	3,4	3,9	3,2	3,3	3,4
2,8	3,3	3,6	2,9	3,3	3,8	3,2	3,3	3,9
2,8	3,3	3,6	2,9	3,3	3,8	3,4	3,4	3,9
2,9	3,2	3,7	2,9	3,3	3,7	3,4	3,4	3,9

6. Uji daya lekat

Formula	Replikasi 1	Replikasi 2	Replikasi 3	Rata-rata
I	1 detik	<1 detik	<1 detik	<1 detik
II	1 detik	1 detik	1 detik	1 detik
III	2 detik	2 detik	2 detik	2 detik
IV	1 detik	1 detik	1 detik	1 detik

Lampiran 8. Uji aktivitas salep

1. Data diameter luka bakar

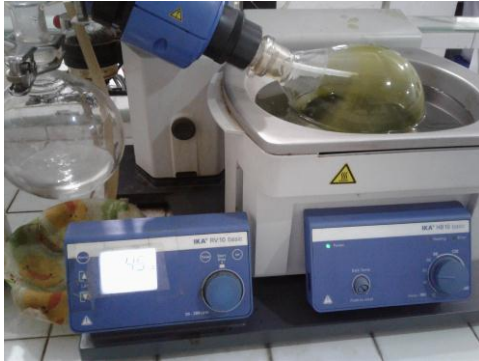
DIAMTER PENYUSUTAN LUKA BAKAR																																
SEDIAAN	KELINCI	DIAMETER PENYUSUTAN LUKA BAKAR (HARI)																														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
KP	1	1.275	1.275	1.275	1.325	1.525	1.525	1.65	1.7	1.6	1.5	1.35	1.325	1.3	1.275	1.025	1.025	0.975	0.875	0.775	0.5	0	0	0	0	0	0	0	0	0	0	0
	2	1.257	1.35	1.4	1.525	1.625	1.75	1.45	1.25	0.875	0.525	0.25	0.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	1.357	1.35	1.35	1.425	1.45	1.55	1.9	1.875	1.75	1.625	1.625	1.625	1.45	1.2	1.25	1	0.85	0.675	0.5	0.45	0.45	0	0	0	0	0	0	0	0	0	
	4	1.4	1.375	1.35	1.35	1.475	1.575	1.6	1.525	1.2	0.975	0.925	0.525	0.475	0.3	0.3	0.3	0.1	0	0	0	0	0	0	0	0	0	0	0	0	0	
	5	1.2	1.275	1.25	1.325	1.45	1.5	1.45	1.55	1.4	1.4	1.2	1	0.925	0.6	0.325	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
F I	1	1.175	1.175	1.25	1.2	1.275	1.55	1.6	1.75	1.675	1.55	1.45	1.425	1.45	1.4	1.45	1.45	1.4	1.4	1.35	1.025	1	0.925	0.725	0.65	0.625	0.475	0.3	0.2	0	0	
	2	1.475	1.4	1.425	1.425	1.475	1.55	1.5	1.425	0.975	0.875	0.75	0.575	0.4	0.325	0.3	0.2	0.2	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	
	3	1.35	1.325	1.2	1.225	1.275	1.55	1.575	1.55	1.45	1.4	1.4	1.5	1.45	1.375	1.225	1.1	0.975	1	0.975	0.725	0.7	0.35	0.3	0.275	0.2	0.2	0.2	0.1	0	0	
	4	1.275	1.325	1.425	1.4	1.45	1.575	1.55	1.475	1.35	0.95	0.875	0.725	0.725	0.525	0.35	0.2	0.25	0.1	0	0	0	0	0	0	0	0	0	0	0	0	
	5	1.15	1.2	1.175	1.2	1.275	1.375	1.4	1.475	1.45	1.325	1.125	1.05	0.85	0.825	0.65	0.55	0.5	0.35	0.275	0	0	0	0	0	0	0	0	0	0	0	0
F II	1	1.125	1.2	1.275	1.3	1.575	1.675	1.8	1.725	1.825	1.7	1.65	1.525	1.65	1.6	1.575	1.55	1.525	1.5	1.475	1.425	1.025	0.9	0.65	0.5	0.275	0.225	0.2	0	0	0	
	2	2.45	1.45	1.475	1.5	1.6	1.575	1.5	1.325	1.175	0.825	0.925	0.9	0.6	0.575	0.325	0.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3	2.475	1.475	1.275	1.35	1.45	1.425	1.65	1.625	2	1.625	1.625	1.5	1.475	1.55	1.425	1.4	1.4	1.3	1.25	1.125	1.05	0.575	0.5	0.375	0.25	0.25	0.125	0.125	0	0	
	4	1.45	1.475	1.5	1.55	1.6	1.7	1.7	1.65	1.25	1.175	1.1	0.75	0.6	0.4	0.375	0.35	0.225	0.2	0.2	0.2	0.2	0	0	0	0	0	0	0	0	0	
	5	1.15	1.25	1.3	1.325	1.375	1.525	1.45	1.55	1.45	1.425	1.375	1.3	1.05	1	0.85	0.8	0.7	0.4	0.325	0	0	0	0	0	0	0	0	0	0	0	0
F III	1	1.275	1.275	1.35	1.425	1.5	1.6	1.55	1.625	1.575	1.575	1.5	1.475	1.525	1.575	1.5	1.575	1.35	1.25	1.1	1.05	0.675	0.45	0.35	0	0	0	0	0	0	0	
	2	1.475	1.45	1.475	1.75	1.65	1.575	1.55	1.525	1.325	1.275	0.9	0.9	0.675	0.55	0.4	0.25	0	0.1	0.1	0	0	0	0	0	0	0	0	0	0	0	
	3	1.325	1.425	1.45	1.55	1.65	1.75	2	2	1.925	1.875	1.675	1.6	1.65	1.725	1.525	1.425	1.225	1.3	1.2	1.125	0.975	0.875	0.65	0.575	0.4	0.325	0.225	0.1	0	0	
	4	1.35	1.3	1.425	1.475	1.425	1.5	1.375	1.3	1	0.825	0.675	0.5	0.475	0.45	0.425	0.4	0.375	0.325	0.325	0.3	0.3	0.3	0.2	0.2	0.1	0	0	0	0	0	
	5	1.1	1.3	1.15	1.275	1.475	1.5	1.55	1.65	1.475	1.425	1.375	1.225	0.875	0.8	0.575	0.55	0.5	0.425	0.425	0.25	0.225	0	0	0	0	0	0	0	0	0	
KN	1	1.3	1.4	1.4	1.725	1.725	1.7	1.6	1.375	1.625	1.55	1.55	1.45	1.45	1.45	1.45	1.425	1.375	1.275	1.15	1.05	0.85	0.6	0.6	0.5	0.4	0.4	0.3	0.2	0.2	0	
	2	1.35	1.45	1.4425	1.65	1.75	1.975	1.625	1.85	1.525	1.575	1.15	1.075	0.9	0.875	0.575	0.45	0.3	0.2	0.1	0.1	0	0	0	0	0	0	0	0	0	0	
	3	1.375	1.45	1.575	1.65	1.775	1.925	2.025	2.05	2	2	1.975	1.9	1.825	1.65	1.675	1.55	1.5	1.375	1.2	1.15	0.8	0.725	0.65	0.757	0.425	0.35	0.3	0.275	0.2	0	
	4	1.325	1.4	1.475	1.525	1.7	1.95	1.65	1.65	1.525	1.55	1.4	0.5	0.475	0.35	0.3	0.3	0.275	0.275	0.2	0.2	0.15	0.15	0.1	0.1	0.1	0.1	0	0	0	0	
	5	1.25	1.25	1.175	1.425	1.475	1.5	1.575	1.45	1.45	1.4	1.275	1.025	0.825	0.875	0.75	0.75	0.7	0.7	0.575	0.5	0.5	0.225	0	0	0	0	0	0	0	0	0

2. Data Presentase Penyembuhan Luka Bakar

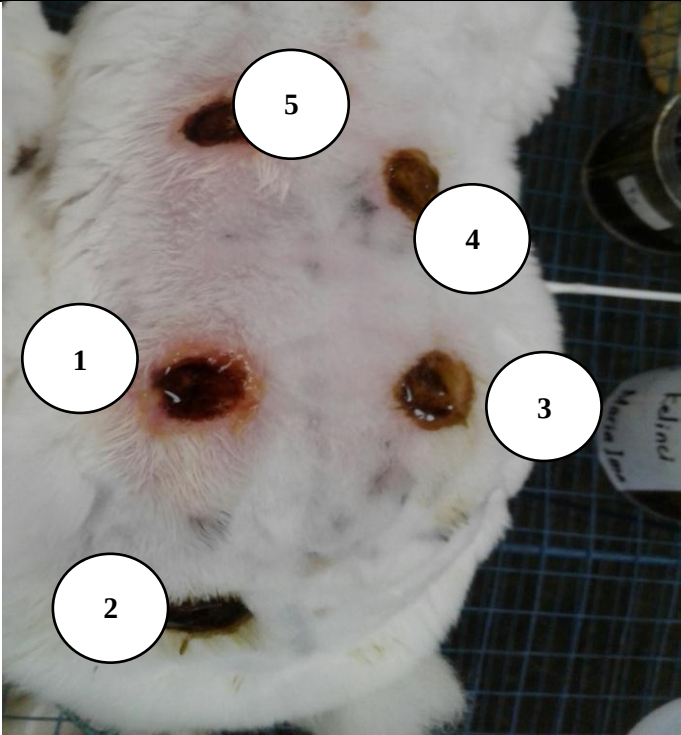
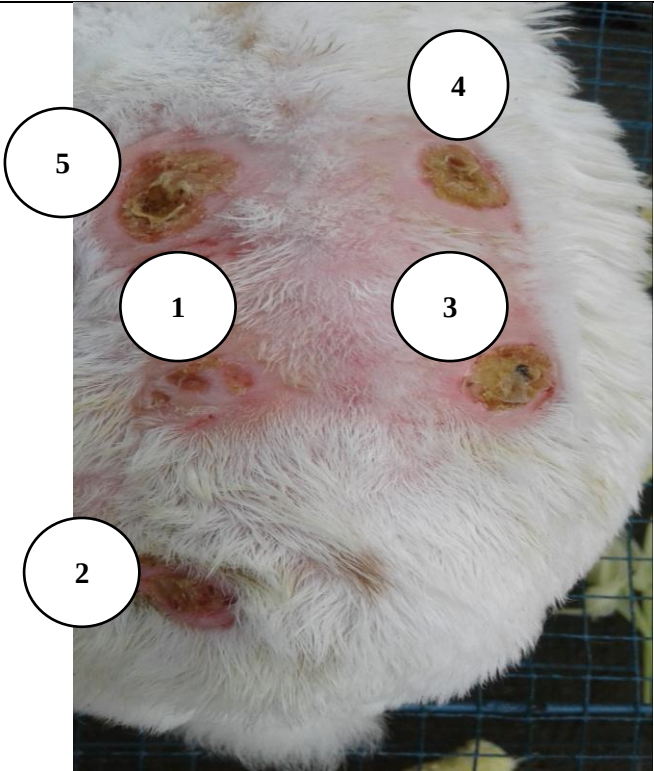
Hari	Presentase penyusutan diameter luka bakar (%)				
	Kontrol Positif	Formula I	Formula II	Formula III	Kontrol Negatif
1	0	0	0	0	0
2	-2,32	0	2,98	-7,06	-10,88
3	-3,08	-0,77	-5,193	-10,048	-14,10
4	-13,45	-1,56	-11,59	-31,23	-46,00
5	-33	-9,39	-28,89	-39,25	-62,94
6	-46,58	-39,92	-48,36	-47,51	-88,02
7	-52,20	-42,69	-41,12	-54,10	-64,88
8	-46,40	-40,84	-40,23	-51,26	-59,1
9	-9,40	-15,33	-21,33	-25,16	-51,55
10	14,73	9,86	-3,03	-14,26	-49,69
11	32,77	24,03	-0,753	9,71	-24,01
12	46,66	32,59	19,27	22,34	18,72
13	59,54	42,42	35,87	36,48	31,18
14	73,24	52,02	37,07	38,02	37,92
15	80,24	61,82	53,18	54,00	48,20
16	83,81	70,32	57,21	58,56	54,02
17	91,29	73,21	66,48	71,55	60,46
18	94,53	78,91	73,47	72,84	66,41
19	96,18	82,34	76,11	76,69	74,61
20	97,88	92,58	82,89	82,55	81,35
21	99,52	92,99	88,55	88,88	87,32
22	100	96,06	95,08	93,79	93,36
23	100	97,45	97,00	96,61	95,50
24	100	97,92	98,26	98,58	96,83
25	100	98,35	99,37	99,41	98,03
26	100	98,88	99,48	99,75	98,34
27	100	99,39	99,76	99,88	98,87
28	100	99,78	99,96	99,97	99,48
29	100	100	100	100	99,63
30	100	100	100	100	100

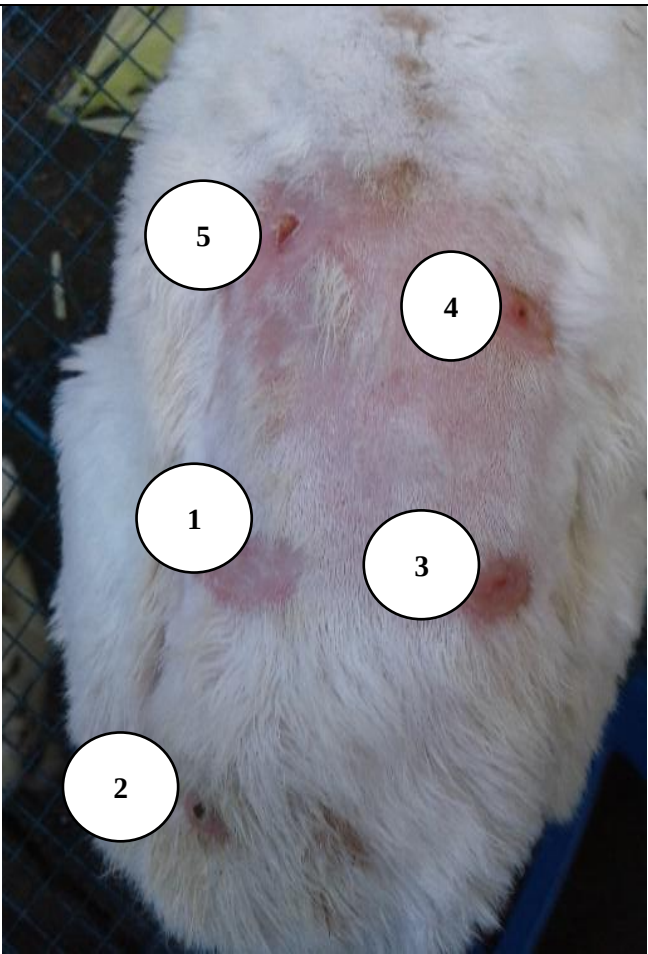
Lampiran 9. Gambar alat dan bahan penelitian

1. Gambar alat dan bahan



3. Gambar hewan uji

Hari	Hasil
1	
9	

14	
21	

Keterangan :

Luka 1 : Kontrol Positif (Salep Mebo[®])

Luka 2 : Formula I

Luka 3 : Formula II

Luka 4 : Formula III

Luka 5 : Kontrol Negatif

Lampiran 10. Hasil uji statistik

Tests of Normality ^a							
	Hari	Kolmogorov-Smirnov ^b			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Peresentase Sembuh	2	.177	5	.200 [*]	.976	5	.915
	3	.186	5	.200 [*]	.959	5	.803
	4	.255	5	.200 [*]	.944	5	.691
	5	.207	5	.200 [*]	.970	5	.877
	6	.268	5	.200 [*]	.943	5	.687
	7	.205	5	.200 [*]	.935	5	.629
	8	.285	5	.200 [*]	.876	5	.291
	9	.211	5	.200 [*]	.897	5	.395
	10	.160	5	.200 [*]	.968	5	.864
	11	.281	5	.200 [*]	.842	5	.171
	12	.262	5	.200 [*]	.854	5	.207
	13	.269	5	.200 [*]	.863	5	.239
	14	.294	5	.183	.872	5	.275
	15	.279	5	.200 [*]	.913	5	.486

*. This is a lower bound of the true significance.

a. Peresentase Sembuh is constant when Hari = 1. It has been omitted.

b. Lilliefors Significance Correction

Two Way ANOVA**Between-Subjects Factors**

	Value Label	N
Hari	1	5
	2	5
	3	5
	4	5
	5	5
	6	5
	7	5
	8	5
	9	5
	10	5
	11	5
	12	5
	13	5
	14	5
	15	5
Perlakuan	1	KP
	2	FI
	3	FII
	4	FIII
	5	KN

Tests of Between-Subjects Effects

Dependent Variable: Peresentase Sembuh

Source	Type III Sum of Squares	Df	Mean Square	F	Sig.
Corrected Model	120212.035 ^a	18	6678.446	80.478	.000
Intercept	1799.858	1	1799.858	21.689	.000
Perlakuan	7352.631	4	1838.158	22.150	.000
Hari	112859.404	14	8061.386	97.142	.000
Error	4647.174	56	82.985		
Total	126659.068	75			
Corrected Total	124859.210	74			

a. R Squared = .963 (Adjusted R Squared = .951)

Multiple Comparisons

Dependent Variable: PeresentaseSembuh

Tukey HSD

(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
KP	FI	3.0347	3.32636	.891	-6.3412	12.4105
	FII	12.2895*	3.32636	.004	2.9137	21.6654
	FIII	15.2612*	3.32636	.000	5.8854	24.6370
	KN	27.9840*	3.32636	.000	18.6082	37.3598
FI	KP	-3.0347	3.32636	.891	-12.4105	6.3412
	FII	9.2549	3.32636	.055	-.1210	18.6307
	FIII	12.2265*	3.32636	.005	2.8507	21.6024
	KN	24.9493*	3.32636	.000	15.5735	34.3252
FII	KP	-12.2895*	3.32636	.004	-21.6654	-2.9137
	FI	-9.2549	3.32636	.055	-18.6307	.1210
	FIII	2.9717	3.32636	.898	-6.4042	12.3475
	KN	15.6945*	3.32636	.000	6.3186	25.0703
FIII	KP	-15.2612*	3.32636	.000	-24.6370	-5.8854
	FI	-12.2265*	3.32636	.005	-21.6024	-2.8507
	FII	-2.9717	3.32636	.898	-12.3475	6.4042
	KN	12.7228*	3.32636	.003	3.3470	22.0986
KN	KP	-27.9840*	3.32636	.000	-37.3598	-18.6082
	FI	-24.9493*	3.32636	.000	-34.3252	-15.5735
	FII	-15.6945*	3.32636	.000	-25.0703	-6.3186
	FIII	-12.7228*	3.32636	.003	-22.0986	-3.3470

Based on observed means.

The error term is Mean Square(Error) = 82.985.

*. The mean difference is significant at the 0.05 level.

PeresentaseSembuh

Tukey HSD^{a,b}

Perlakuan	N	Subset			
		1	2	3	4
KN	15	-11.3713			
FIII	15		1.3515		
FII	15		4.3231	4.3231	
FI	15			13.5780	13.5780
KP	15				16.6127
Sig.		1.000	.898	.055	.891

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 82.985.

a. Uses Harmonic Mean Sample Size = 15.000.

b. Alpha = .05.

Multiple Comparisons

Dependent Variable: PerSembuh

Tukey HSD

(I) Hari	(J) Hari	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	3.4560	5.84760	1.000	-17.2843	24.1963
	3	6.7962	5.84760	.997	-13.9441	27.5365
	4	20.6080	5.84760	.053	-.1323	41.3483
	5	34.6940 [*]	5.84760	.000	13.9537	55.4343
	6	50.3520 [*]	5.84760	.000	29.6117	71.0923
	7	49.6600 [*]	5.84760	.000	28.9197	70.4003
	8	24.1820 [*]	5.84760	.009	3.4417	44.9223
	9	8.8500	5.84760	.969	-11.8903	29.5903
	10	-8.3494	5.84760	.981	-29.0897	12.3909
	11	-27.9160 [*]	5.84760	.001	-48.6563	-7.1757
	12	-41.0980 [*]	5.84760	.000	-61.8383	-20.3577
	13	-59.4880 [*]	5.84760	.000	-80.2283	-38.7477
	14	-64.7840 [*]	5.84760	.000	-85.5243	-44.0437
	15	-72.5980 [*]	5.84760	.000	-93.3383	-51.8577
2	1	-3.4560	5.84760	1.000	-24.1963	17.2843
	3	3.3402	5.84760	1.000	-17.4001	24.0805
	4	17.1520	5.84760	.213	-3.5883	37.8923
	5	31.2380 [*]	5.84760	.000	10.4977	51.9783
	6	46.8960 [*]	5.84760	.000	26.1557	67.6363
	7	46.2040 [*]	5.84760	.000	25.4637	66.9443
	8	20.7260	5.84760	.050	-.0143	41.4663
	9	5.3940	5.84760	1.000	-15.3463	26.1343
	10	-11.8054	5.84760	.779	-32.5457	8.9349
	11	-31.3720 [*]	5.84760	.000	-52.1123	-10.6317
	12	-44.5540 [*]	5.84760	.000	-65.2943	-23.8137
	13	-62.9440 [*]	5.84760	.000	-83.6843	-42.2037
	14	-68.2400 [*]	5.84760	.000	-88.9803	-47.4997
	15	-76.0540 [*]	5.84760	.000	-96.7943	-55.3137
3	1	-6.7962	5.84760	.997	-27.5365	13.9441
	2	-3.3402	5.84760	1.000	-24.0805	17.4001
	4	13.8118	5.84760	.552	-6.9285	34.5521
	5	27.8978 [*]	5.84760	.001	7.1575	48.6381
	6	43.5558 [*]	5.84760	.000	22.8155	64.2961
	7	42.8638 [*]	5.84760	.000	22.1235	63.6041
	8	17.3858	5.84760	.197	-3.3545	38.1261
	9	2.0538	5.84760	1.000	-18.6865	22.7941
	10	-15.1456	5.84760	.398	-35.8859	5.5947
	11	-34.7122 [*]	5.84760	.000	-55.4525	-13.9719
	12	-47.8942 [*]	5.84760	.000	-68.6345	-27.1539
	13	-66.2842 [*]	5.84760	.000	-87.0245	-45.5439
	14	-71.5802 [*]	5.84760	.000	-92.3205	-50.8399
	15	-79.3942 [*]	5.84760	.000	-100.1345	-58.6539
4	1	-20.6080	5.84760	.053	-41.3483	13.23
	2	-17.1520	5.84760	.213	-37.8923	3.5883
	3	-13.8118	5.84760	.552	-34.5521	6.9285
	5	14.0860	5.84760	.519	-6.6543	34.8263
	6	29.7440 [*]	5.84760	.000	9.0037	50.4843
	7	29.0520 [*]	5.84760	.001	8.3117	49.7923
	8	3.5740	5.84760	1.000	-17.1663	24.3143
	9	-11.7580	5.84760	.783	-32.4983	8.9823

5	10	-28.9574*	5.84760	.001	-49.6977	-8.2171
	11	-48.5240*	5.84760	.000	-69.2643	-27.7837
	12	-61.7060*	5.84760	.000	-82.4463	-40.9657
	13	-80.0960*	5.84760	.000	-100.8363	-59.3557
	14	-85.3920*	5.84760	.000	-106.1323	-64.6517
	15	-93.2060*	5.84760	.000	-113.9463	-72.4657
	1	-34.6940*	5.84760	.000	-55.4343	-13.9537
	2	-31.2380*	5.84760	.000	-51.9783	-10.4977
	3	-27.8978*	5.84760	.001	-48.6381	-7.1575
	4	-14.0860	5.84760	.519	-34.8263	6.6543
	6	15.6580	5.84760	.345	-5.0823	36.3983
	7	14.9660	5.84760	.418	-5.7743	35.7063
	8	-10.5120	5.84760	.889	-31.2523	10.2283
	9	-25.8440*	5.84760	.004	-46.5843	-5.1037
	10	-43.0434*	5.84760	.000	-63.7837	-22.3031
6	11	-62.6100*	5.84760	.000	-83.3503	-41.8697
	12	-75.7920*	5.84760	.000	-96.5323	-55.0517
	13	-94.1820*	5.84760	.000	-114.9223	-73.4417
	14	-99.4780*	5.84760	.000	-120.2183	-78.7377
	15	-107.2920*	5.84760	.000	-128.0323	-86.5517
	1	-50.3520*	5.84760	.000	-71.0923	-29.6117
	2	-46.8960*	5.84760	.000	-67.6363	-26.1557
	3	-43.5558*	5.84760	.000	-64.2961	-22.8155
	4	-29.7440*	5.84760	.000	-50.4843	-9.0037
	5	-15.6580	5.84760	.345	-36.3983	5.0823
	7	-.6920	5.84760	1.000	-21.4323	20.0483
	8	-26.1700*	5.84760	.003	-46.9103	-5.4297
	9	-41.5020*	5.84760	.000	-62.2423	-20.7617
	10	-58.7014*	5.84760	.000	-79.4417	-37.9611
	11	-78.2680*	5.84760	.000	-99.0083	-57.5277
7	12	-91.4500*	5.84760	.000	-112.1903	-70.7097
	13	-109.8400*	5.84760	.000	-130.5803	-89.0997
	14	-115.1360*	5.84760	.000	-135.8763	-94.3957
	15	-122.9500*	5.84760	.000	-143.6903	-102.2097
	1	-49.6600*	5.84760	.000	-70.4003	-28.9197
	2	-46.2040*	5.84760	.000	-66.9443	-25.4637
	3	-42.8638*	5.84760	.000	-63.6041	-22.1235
	4	-29.0520*	5.84760	.001	-49.7923	-8.3117
	5	-14.9660	5.84760	.418	-35.7063	5.7743
	6	.6920	5.84760	1.000	-20.0483	21.4323
	8	-25.4780*	5.84760	.005	-46.2183	-4.7377
	9	-40.8100*	5.84760	.000	-61.5503	-20.0697
	10	-58.0094*	5.84760	.000	-78.7497	-37.2691
	11	-77.5760*	5.84760	.000	-98.3163	-56.8357
	12	-90.7580*	5.84760	.000	-111.4983	-70.0177
8	13	-109.1480*	5.84760	.000	-129.8883	-88.4077
	14	-114.4440*	5.84760	.000	-135.1843	-93.7037
	15	-122.2580*	5.84760	.000	-142.9983	-101.5177
	1	-24.1820*	5.84760	.009	-44.9223	-3.4417
	2	-20.7260	5.84760	.050	-41.4663	.0143
	3	-17.3858	5.84760	.197	-38.1261	3.3545
	4	-3.5740	5.84760	1.000	-24.3143	17.1663
	5	10.5120	5.84760	.889	-10.2283	31.2523
	6	26.1700*	5.84760	.003	5.4297	46.9103
	7	25.4780*	5.84760	.005	4.7377	46.2183
	9	-15.3320*	5.84760	.378	-36.0723	5.4083
	10	-32.5314*	5.84760	.000	-53.2717	-11.7911
	11	-52.0980*	5.84760	.000	-72.8383	-31.3577
	12	-65.2800*	5.84760	.000	-86.0203	-44.5397
	13	-83.6700*	5.84760	.000	-104.4103	-62.9297
	14	-88.9660*	5.84760	.000	-109.7063	-68.2257
	15	-96.7800*	5.84760	.000	-117.5203	-76.0397

9	1	-8.8500	5.84760	.969	-29.5903	11.8903
	2	-5.3940	5.84760	1.000	-26.1343	15.3463
	3	-2.0538	5.84760	1.000	-22.7941	18.6865
	4	11.7580	5.84760	.783	-8.9823	32.4983
	5	25.8440*	5.84760	.004	5.1037	46.5843
	6	41.5020*	5.84760	.000	20.7617	62.2423
	7	40.8100*	5.84760	.000	20.0697	61.5503
	8	15.3320	5.84760	.378	-5.4083	36.0723
	10	-17.1994	5.84760	.210	-37.9397	3.5409
	11	-36.7660*	5.84760	.000	-57.5063	-16.0257
	12	-49.9480*	5.84760	.000	-70.6883	-29.2077
	13	-68.3380*	5.84760	.000	-89.0783	-47.5977
	14	-73.6340*	5.84760	.000	-94.3743	-52.8937
	15	-81.4480*	5.84760	.000	-102.1883	-60.7077
10	1	8.3494	5.84760	.981	-12.3909	29.0897
	2	11.8054	5.84760	.779	-8.9349	32.5457
	3	15.1456	5.84760	.398	-5.5947	35.8859
	4	28.9574*	5.84760	.001	8.2171	49.6977
	5	43.0434*	5.84760	.000	22.3031	63.7837
	6	58.7014*	5.84760	.000	37.9611	79.4417
	7	58.0094*	5.84760	.000	37.2691	78.7497
	8	32.5314*	5.84760	.000	11.7911	53.2717
	9	17.1994	5.84760	.210	-3.5409	37.9397
	11	-19.5666	5.84760	.084	-40.3069	1.1737
	12	-32.7486*	5.84760	.000	-53.4889	-12.0083
	13	-51.1386*	5.84760	.000	-71.8789	-30.3983
	14	-56.4346*	5.84760	.000	-77.1749	-35.6943
	15	-64.2486*	5.84760	.000	-84.9889	-43.5083
11	1	27.9160*	5.84760	.001	7.1757	48.6563
	2	31.3720*	5.84760	.000	10.6317	52.1123
	3	34.7122*	5.84760	.000	13.9719	55.4525
	4	48.5240*	5.84760	.000	27.7837	69.2643
	5	62.6100*	5.84760	.000	41.8697	83.3503
	6	78.2680*	5.84760	.000	57.5277	99.0083
	7	77.5760*	5.84760	.000	56.8357	98.3163
	8	52.0980*	5.84760	.000	31.3577	72.8383
	9	36.7660*	5.84760	.000	16.0257	57.5063
	10	19.5666	5.84760	.084	-1.1737	40.3069
	12	-13.1820	5.84760	.626	-33.9223	7.5583
	13	-31.5720*	5.84760	.000	-52.3123	-10.8317
	14	-36.8680*	5.84760	.000	-57.6083	-16.1277
	15	-44.6820*	5.84760	.000	-65.4223	-23.9417
12	1	41.0980*	5.84760	.000	20.3577	61.8383
	2	44.5540*	5.84760	.000	23.8137	65.2943
	3	47.8942*	5.84760	.000	27.1539	68.6345
	4	61.7060*	5.84760	.000	40.9657	82.4463
	5	75.7920*	5.84760	.000	55.0517	96.5323
	6	91.4500*	5.84760	.000	70.7097	112.1903
	7	90.7580*	5.84760	.000	70.0177	111.4983
	8	65.2800*	5.84760	.000	44.5397	86.0203
	9	49.9480*	5.84760	.000	29.2077	70.6883
	10	32.7486*	5.84760	.000	12.0083	53.4889
	11	13.1820	5.84760	.626	-7.5583	33.9223
	13	-18.3900	5.84760	.135	-39.1303	2.3503
	14	-23.6860*	5.84760	.012	-44.4263	-2.9457
	15	-31.5000*	5.84760	.000	-52.2403	-10.7597
13	1	59.4880*	5.84760	.000	38.7477	80.2283
	2	62.9440*	5.84760	.000	42.2037	83.6843
	3	66.2842*	5.84760	.000	45.5439	87.0245
	4	80.0960*	5.84760	.000	59.3557	100.8363
	5	94.1820*	5.84760	.000	73.4417	114.9223
	6	109.8400*	5.84760	.000	89.0997	130.5803

14	7	109.1480*	5.84760	.000	88.4077	129.8883
	8	83.6700*	5.84760	.000	62.9297	104.4103
	9	68.3380*	5.84760	.000	47.5977	89.0783
	10	51.1386*	5.84760	.000	30.3983	71.8789
	11	31.5720*	5.84760	.000	10.8317	52.3123
	12	18.3900	5.84760	.135	-2.3503	39.1303
	14	-5.2960	5.84760	1.000	-26.0363	15.4443
	15	-13.1100	5.84760	.635	-33.8503	7.6303
	1	64.7840*	5.84760	.000	44.0437	85.5243
	2	68.2400*	5.84760	.000	47.4997	88.9803
	3	71.5802*	5.84760	.000	50.8399	92.3205
	4	85.3920*	5.84760	.000	64.6517	106.1323
	5	99.4780*	5.84760	.000	78.7377	120.2183
	6	115.1360*	5.84760	.000	94.3957	135.8763
	7	114.4440*	5.84760	.000	93.7037	135.1843
15	8	88.9660*	5.84760	.000	68.2257	109.7063
	9	73.6340*	5.84760	.000	52.8937	94.3743
	10	56.4346*	5.84760	.000	35.6943	77.1749
	11	36.8680*	5.84760	.000	16.1277	57.6083
	12	23.6860*	5.84760	.012	2.9457	44.4263
	13	5.2960	5.84760	1.000	-15.4443	26.0363
	15	-7.8140	5.84760	.989	-28.5543	12.9263
	1	72.5980*	5.84760	.000	51.8577	93.3383
	2	76.0540*	5.84760	.000	55.3137	96.7943
	3	79.3942*	5.84760	.000	58.6539	100.1345
	4	93.2060*	5.84760	.000	72.4657	113.9463
	5	107.2920*	5.84760	.000	86.5517	128.0323
	6	122.9500*	5.84760	.000	102.2097	143.6903
	7	122.2580*	5.84760	.000	101.5177	142.9983
	8	96.7800*	5.84760	.000	76.0397	117.5203
	9	81.4480*	5.84760	.000	60.7077	102.1883
	10	64.2486*	5.84760	.000	43.5083	84.9889
	11	44.6820*	5.84760	.000	23.9417	65.4223
	12	31.5000*	5.84760	.000	10.7597	52.2403
	13	13.1100	5.84760	.635	-7.6303	33.8503
	14	7.8140	5.84760	.989	-12.9263	28.5543

Based on observed means.

The error term is Mean Square(Error) = 85.486.

*. The mean difference is significant at the .05 level.

PerSembuh

Tukey HSD^{a,b}

Hari	N	Subset								
		1	2	3	4	5	6	7	8	9
6	5	-50.3520								
7	5	-49.6600								
5	5	-34.6940	-34.6940							
8	5		-24.1820	-24.1820						
4	5		-20.6080	-20.6080	-20.6080					
9	5			-8.8500	-8.8500	-8.8500				
3	5			-6.7962	-6.7962	-6.7962				
2	5			-3.4560	-3.4560	-3.4560				
1	5				.0000	.0000				
10	5					8.3494	8.3494			
11	5						27.9160	27.9160		
12	5							41.0980	41.0980	
13	5								59.4880	59.4880
14	5									64.7840
15	5									72.5980
Sig.		.345	.519	.050	.053	.210	.084	.626	.135	.635

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 85.486.

a. Uses Harmonic Mean Sample Size = 5.000.

b. Alpha = .05.