

## LAMPIRAN

### Lampiran 1. *Ethical Clearance*

**KOMISI BIOETIKA PENELITIAN KEDOKTERAN/KESEHATAN  
FAKULTAS KEDOKTERAN  
UNIVERSITAS ISLAM SULTAN AGUNG SEMARANG**  
Sekretariat : Gedung C Lantai I Fakultas Kedokteran Unissula  
Jl. Raya Kaligawe Km 4 Semarang, Telp. 024-6583584, Fax 024-6594366

# Ethical Clearance

No. 275/V/2019/Komisi Bioetik

Komisi Bioetika Penelitian Kedokteran/Kesehatan Fakultas Kedokteran Universitas Islam Sultan Agung Semarang, setelah melakukan pengkajian atas usulan penelitian yang berjudul :

**UJI AKTIVITAS PENYEMBUHAN LUKA BAKAR SEDIAAN KRIM EKSTRAK DAUN  
KELOR (*Moringa Oleifera* L.) DALAM KONSENTRASI 5%, 10% DAN 15% PADA  
TIKUS PUTIH (*Rattus norvegicus*) JANTAN GALUR WISTAR**

Peneliti Utama : Norramadan  
Pembimbing : Fadzil Latifah, M.Farm., Apt  
Wili Wahyu Timur, M.Sc., Apt  
Tempat Penelitian : Laboratorium Farmasi FK Unissula Semarang

dengan ini menyatakan bahwa usulan penelitian diatas telah memenuhi prasyarat etik penelitian. Oleh karena itu Komisi Bioetika merekomendasikan agar penelitian ini dapat dilaksanakan dengan mempertimbangkan prinsip-prinsip yang dinyatakan dalam Deklarasi Helsinki dan panduan yang tertuang dalam Pedoman Nasional Etik Penelitian Kesehatan (PNEPK) Departemen Kesehatan RI tahun 2004.

Semarang, 8 Mei 2019

Komisi Bioetika Penelitian Kedokteran/Kesehatan  
Fakultas Kedokteran Unissula

Ketua,  
  
(dr. Sorwan Dahlan, Sp.F(K))

## Lampiran 2. Surat Keterangan Pembelian



MELAYANI :  
 • PENJUALAN TIKUS PUTIH/ MENCIT UNTUK PENELITIAN  
 • PERAWATAN HEWAN UJI SELAMA PENELITIAN

ALAMAT :  
 JL. BLIMBING IV NO 204 PERUM GREEN VILLAGE  
 NGIJO, GUNUNGPATI  
 SEMARANG  
 085-641-700-766/ 085-800-355-766

### SURAT KETERANGAN No. 09 /PM/IX/2019

Yang bertanda tangan di bawah ini :

Nama : Rina Wijayanti, M. Sc., Apt  
 Alamat : Jl. Blimbing IV no 204 Perum Green Village Gunungpati Semarang

Menerangkan bahwa :

Nama : Norramadan  
 NIM : 33101500391  
 Institusi : Universitas Islam Sultan Agung Semarang

Pada bulan Juli 2019 telah membeli Tikus Putih (*Rattus norvegicus*) jantan galur Wistar usia 2-3 bulan dengan taksonomi sebagai berikut :

Kingdom : Animalia  
 Filum : Chordata  
 Sub Filum : Vertebrata  
 Class : Mamalia  
 Ordo : Rodentia  
 Sub Ordo : Myomorpha  
 Family : Muridae  
 Genus : Rattus  
 Species : *Rattus norvegicus*  
 (American Fancy Rat and Mouse Association, 2004)

Demikian Surat Keterangan ini dibuat, agar dapat digunakan sebagaimana mestinya.

Semarang, 30 September 2019

  
 (Rina Wijayanti, M. Sc., Apt)  
 085 641 700 766 / 085 800 355 766  
 NIDN 70618018201

### Lampiran 3. Determinasi Daun Kelor



KEMENTERIAN RISET, TEKNOLOGI, DAN PENDIDIKAN TINGGI  
UNIVERSITAS NEGERI SEMARANG  
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM  
LABORATORIUM JURUSAN BIOLOGI

Alamat : Gedung D11 FMIPA UNNES Kampus Sekaran Gunungpati Semarang 50229  
website : [biologi.unnes.ac.id](http://biologi.unnes.ac.id), email : [labbiologi.unnes@yahoo.com](mailto:labbiologi.unnes@yahoo.com)

Semarang, 06 Maret 2019

No. : 196 /UN/37.1.4.5/LT/2019  
Lampiran : -  
Perihal : Hasil identifikasi tumbuhan

Kepada Yth.

Sdr. Norramadan – NIM. 33101500391

Mahasiswa Program Studi Farmasi - Fakultas Kedokteran  
Universitas Islam Sultan Agung (UNISSULA)  
Semarang

Dengan hormat,

Bersama ini kami sampaikan hasil identifikasi tumbuhan yang Saudara kirimkan ke Laboratorium Taksonomi Tumbuhan Jurusan Biologi-FMIPA Universitas Negeri Semarang (UNNES), adalah sebagai berikut.

Divisio : Magnoliophyta  
Classis : Magnoliopsida  
SubClassis : Dilleniidae  
Ordo : Capparales  
Familia : Moringaceae  
Genus : Moringa  
Species : *Moringa oleifera* Lam.  
Vern. name : Kelor/ Horseradish tree

Demikian, semoga berguna bagi Saudara.

Mengetahui  
Ketua Jurusan Biologi FMIPA UNNES

Dr. Endah Peniati, M.Si.  
NIP. 196511161991032001

Kepala Laboratorium Biologi

Dr. Ning Setiati, M.Si.  
NIP. 195903101987032001

## Lampiran 4. Kadar Air

### 1. Kadar air simplisia



#### A. Pengukuran 1 ( Daun kelor A)

Hasil kadar air simplisia (%MC) = 6,58%

#### B. Pengukuran 2 (Daun kelor B)

Hasil kadar air simplisia (%MC) = 6,18%

#### C. Pengukuran 3 (Daun kelor C)

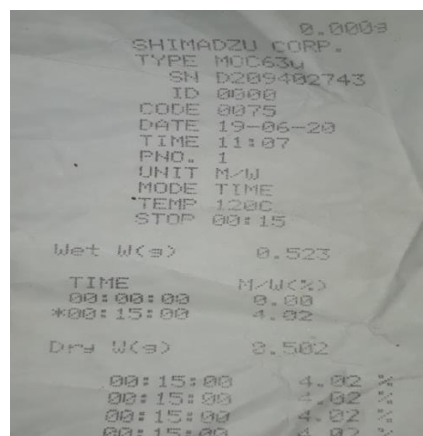
Hasil kadar air simplisia (%MC) = 6,94%

Rata – rata kadar air simplisia =  $\frac{\text{Pengukuran 1} + \text{Pengukuran 2} + \text{Pengukuran 3}}{3}$

Rata – rata kadar air simplisia =  $\frac{6,58\% + 6,18\% + 6,94\%}{3}$

Rata – rata kadar air simplisia = 6,56%

### 2. Kadar air ekstrak



### Lampiran 5. Perhitungan Rendemen

Rendemen ekstrak

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

$$\text{Rendemen} = \frac{207,94 \text{ gram}}{1000 \text{ gram}} \times 100\%$$

$$\text{Rendemen} = 20,79 \%$$



Keterangan:

Massa simplisia



Keterangan:

Massa ekstrak kental

## Lampiran 6. Senyawa Fitokimia



YAYASAN BADAN WAKAF SULTAN AGUNG  
**UNIVERSITAS ISLAM SULTAN AGUNG (UNISSULA)**  
 Jl. Raya Kaligawe Km.4 Semarang 50112 Telp.(024) 6583584 (8 Sal) Faks.(024) 6582455  
 email: informasi@unissula.ac.id web: www.unissula.ac.id



PRODI FARMASI FK

Bismillah Membangun Generasi Khalifa Ummah

### LAPORAN HASIL UJI

No. Sertifikat : 99/LPF/II/2019

#### Informasi Peneliti

Nama : Norramadan

Tanggal Pengujian: 2 Mei 2019

NIM : 33101500391


#### Hasil Pengujian

Skrining Fitokimia Ekstrak Etanolik Daun Kelor (*Moringa oleifera* L.):


Parameter Uji	Reagen	Hasil Identifikasi	Metode	Kesimpulan
Flavonoid	Serbuk Mg dan HCl pekat	Larutan menjadi jingga	Tabung	Positif
Tannin	FeCl <sub>3</sub>	Warna hijau kehitaman	Tabung	Positif

Semarang, 10 Mei 2019

Laboran Prodi Farmasi  
 FK UNISSULA

  
 Nisrina Nur A, Amd. AF

Kepala Laboratorium Prodi Farmasi  
 FK UNISSULA

  
 Ika Buana Januarti, M.Sc., Apt  
 NIK. 211213007

### Lampiran 7. Perhitungan HLB

Berdasarkan komposisi yang didapatkan, maka diperoleh hasil formula sebagai berikut :

R/ Ekstrak Kental Daun Kelor

Asam Stearate	6,7 gram
TEA	3,4 ml
Setil Alkohol	0,5 gram
Metil Paraben	0,02 gram
Propilen Glikol	15 ml
Aquadest add	100 ml

Perhitungan HLB

$$\text{Rumus} = \frac{\text{Gram (A)}}{\text{Gram (A) + Gram (B)}} \times \text{HLB}$$

$$\text{TEA (A)} = \frac{3,4}{3,4 + 6,7} \times 12 = 3,96$$

$$\text{Asam Stearat (B)} = \frac{6,7}{6,7 + 3,4} \times 12 = 3,96$$

Maka hasil HLB campuran =  $3,96 + 3,96 = 7,92$  dimana HLB 4-8 merupakan tipe krim A/M

## Lampiran 8. Gambar Uji Fisik



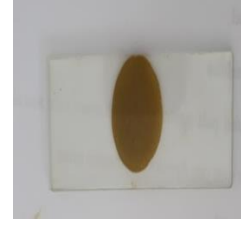
Keterangan:  
Basis krim  
Krim



Keterangan:  
Basis krim ekstrak  
daun kelor



Keterangan:  
Uji homogenitas  
basis



Keterangan:  
Uji homogenitas  
ekstrak daun kelor



Keterangan:  
Uji daya sebar basis



Keterangan:  
Uji daya sebar krim  
ekstrak daun kelor



Keterangan:  
Uji pH basis



Keterangan:  
Uji pH krim  
ekstrak daun kelor



Keterangan:  
Uji viskositas basis



Keterangan:  
Uji viskositas krim ekstrak daun kelor



## Lampiran 9. Analisis Uji Daya Sebar

### Perlakuan

Case Processing Summary

Perlakuan		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
Daya_Sebar	Basis	3	100.0%	0	.0%	3	100.0%
	5%	3	100.0%	0	.0%	3	100.0%
	10%	3	100.0%	0	.0%	3	100.0%
	15%	3	100.0%	0	.0%	3	100.0%

Descriptives

Perlakuan	Statistic	Std. Error		
Daya_Sebar	Basis	Mean	6.5000	.05774
		95% Confidence Interval for Mean	Lower Bound	6.2516
		Upper Bound	6.7484	
		5% Trimmed Mean		
		Median	6.5000	
		Variance	.010	
		Std. Deviation	.10000	
		Minimum	6.40	
		Maximum	6.60	
		Range	.20	
		Interquartile Range		
		Skewness	.000	1.225
		Kurtosis		
		5%	Mean	5.7667
95% Confidence Interval for Mean	Lower Bound		5.1415	
Upper Bound	6.3918			
5% Trimmed Mean				
Median	5.8000			
Variance	.063			
Std. Deviation	.25166			
Minimum	5.50			
Maximum	6.00			
Range	.50			
Interquartile Range				
Skewness	-.586		1.225	
Kurtosis				
10%	Mean		6.6000	.05774
	95% Confidence Interval for Mean	Lower Bound	6.3516	
	Upper Bound	6.8484		
	5% Trimmed Mean			
	Median	6.6000		
	Variance	.010		
	Std. Deviation	.10000		
	Minimum	6.50		
	Maximum	6.70		
	Range	.20		
	Interquartile Range			
	Skewness	.000	1.225	
	Kurtosis			
	15%	Mean	6.6000	.05774
95% Confidence Interval for Mean		Lower Bound	6.3516	
Upper Bound		6.8484		
5% Trimmed Mean				
Median		6.6000		
Variance		.010		
Std. Deviation		.10000		
Minimum		6.50		
Maximum		6.70		
Range		.20		
Interquartile Range				
Skewness		.000	1.225	
Kurtosis				

### Tests of Normality

Perlakuan	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Daya_Sebar Basis	.175	3	.	1.000	3	1.000
5%	.219	3	.	.987	3	.780
10%	.175	3	.	1.000	3	1.000
15%	.175	3	.	1.000	3	1.000

a. Lilliefors Significance Correction

### Test of Homogeneity of Variances

Daya\_Sebar

Levene Statistic	df1	df2	Sig.
1.429	3	8	.304

### ANOVA

Daya\_Sebar

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.460	3	.487	20.857	.000
Within Groups	.187	8	.023		
Total	1.647	11			

## Post Hoc Tests

### Multiple Comparisons

Daya\_Sebar

LSD

(I) Perla kuan	(J) Perla kuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Basis	5%	.73333'	.12472	.000	.4457	1.0209
	10%	-.10000	.12472	.446	-.3876	.1876
	15%	-.10000	.12472	.446	-.3876	.1876
5%	Basis	-.73333'	.12472	.000	-1.0209	-.4457
	10%	-.83333'	.12472	.000	-1.1209	-.5457
	15%	-.83333'	.12472	.000	-1.1209	-.5457
10%	Basis	.10000	.12472	.446	-.1876	.3876
	5%	.83333'	.12472	.000	.5457	1.1209
	15%	.00000	.12472	1.000	-.2876	.2876
15%	Basis	.10000	.12472	.446	-.1876	.3876
	5%	.83333'	.12472	.000	.5457	1.1209
	10%	.00000	.12472	1.000	-.2876	.2876

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

## Lampiran 10. Analisis Uji pH

### Kelompok Perlakuan

Case Processing Summary

Kelompok Perlakuan		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
Hasil pH	Basis	3	100.0%	0	.0%	3	100.0%
	5%	3	100.0%	0	.0%	3	100.0%
	10%	3	100.0%	0	.0%	3	100.0%
	15%	3	100.0%	0	.0%	3	100.0%

Descriptives

Kelompok Perlakuan			Statistic	Std. Error	
Hasil pH	Basis	Mean	6.9833	.01202	
		95% Confidence Interval for Mean	Lower Bound 6.9316 Upper Bound 7.0350		
		5% Trimmed Mean	.		
		Median	6.9900		
		Variance	.000		
		Std. Deviation	.02082		
		Minimum	6.96		
		Maximum	7.00		
		Range	.04		
		Interquartile Range	.		
		Skewness	-1.293	1.225	
		Kurtosis	.		
		5%	Mean	6.9867	.00882
		95% Confidence Interval for Mean	Lower Bound 6.9487 Upper Bound 7.0246		
		5% Trimmed Mean	.		
		Median	6.9900		
Variance	.000				
Std. Deviation	.01528				
Minimum	6.97				
Maximum	7.00				
Range	.03				
Interquartile Range	.				
Skewness	-.935	1.225			
10%	Mean	6.9867	.00882		
95% Confidence Interval for Mean	Lower Bound 6.9487 Upper Bound 7.0246				
5% Trimmed Mean	.				
Median	6.9900				
Variance	.000				
Std. Deviation	.01528				
Minimum	6.97				
Maximum	7.00				
Range	.03				
Interquartile Range	.				
Skewness	-.935	1.225			
Kurtosis	.				
15%	Mean	6.9767	.01202		
95% Confidence Interval for Mean	Lower Bound 6.9250 Upper Bound 7.0284				
5% Trimmed Mean	.				
Median	6.9700				
Variance	.000				
Std. Deviation	.02082				
Minimum	6.96				
Maximum	7.00				
Range	.04				
Interquartile Range	.				
Skewness	1.293	1.225			
Kurtosis	.				

**Tests of Normality**

Kelompok Perlakuan	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Hasil pH Basis	.292	3	.	.923	3	.463
5%	.253	3	.	.964	3	.637
10%	.253	3	.	.964	3	.637
15%	.292	3	.	.923	3	.463

a. Lilliefors Significance Correction

**Test of Homogeneity of Variances**

Hasil pH

Levene Statistic	df1	df2	Sig.
.333	3	8	.802

**ANOVA**

Hasil pH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.000	3	.000	.200	.894
Within Groups	.003	8	.000		
Total	.003	11			

## Lampiran 11. Analisis Uji Viskositas

### Perlakuan

Perlakuan		Case Processing Summary					
		Cases				Total	
		Valid		Missing		N	Percent
N	Percent	N	Percent	N	Percent		
Viskositas	Basis	3	100.0%	0	.0%	3	100.0%
	5%	3	100.0%	0	.0%	3	100.0%
	10%	3	100.0%	0	.0%	3	100.0%
	15%	3	100.0%	0	.0%	3	100.0%

Kelompok				Statistic	Std. Error
Uji_Viskositas	Basis	Mean		3.05E4	60.093
		95% Confidence Interval for Mean	Lower Bound	3.02E4	
			Upper Bound	3.07E4	
		5% Trimmed Mean		.	
		Median		3.05E4	
		Variance		1.083E4	
		Std. Deviation		104.083	
		Minimum		30340	
		Maximum		30540	
		Range		200	
		Interquartile Range		.	
		Skewness		-1.293	1.225
		Kurtosis		.	
		Konsentrasi 5%		Mean	
95% Confidence Interval for Mean	Lower Bound			2.96E4	
	Upper Bound			3.09E4	
5% Trimmed Mean				.	
Median				3.02E4	
Variance				6.603E4	
Std. Deviation				256.970	
Minimum				30040	
Maximum				30550	
Range				510	
Interquartile Range				.	
Skewness				.629	1.225
Kurtosis				.	
Konsentrasi 10%				Mean	
		95% Confidence Interval for Mean	Lower Bound	3.06E4	
			Upper Bound	3.16E4	
		5% Trimmed Mean		.	
		Median		3.12E4	
		Variance		3.583E4	
		Std. Deviation		189.297	
		Minimum		30890	
		Maximum		31240	
		Range		350	
		Interquartile Range		.	
		Skewness		-1.597	1.225
		Kurtosis		.	
		Konsentrasi 15%		Mean	
95% Confidence Interval for Mean	Lower Bound			3.09E4	
	Upper Bound			3.15E4	
5% Trimmed Mean				.	
Median				3.12E4	
Variance				1.583E4	
Std. Deviation				125.831	
Minimum				31090	
Maximum				31340	
Range				250	
Interquartile Range				.	
Skewness				.586	1.225
Kurtosis				.	

### Tests of Normality

Kelompok	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Uji_Viskositas Basis	.292	3	.	.923	3	.463
Konsentrasi 5%	.223	3	.	.985	3	.763
Konsentrasi 10%	.337	3	.	.855	3	.253
Konsentrasi 15%	.219	3	.	.987	3	.780

a. Lilliefors Significance Correction

### Test of Homogeneity of Variances

Uji\_Viskositas

Levene Statistic	df1	df2	Sig.
1.083	3	8	.410

### ANOVA

Uji\_Viskositas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1935900.000	3	645300.000	20.082	.000
Within Groups	257066.667	8	32133.333		
Total	2192966.667	11			

## Post Hoc

### Multiple Comparisons

Uji\_Viskositas  
LSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Basis	Konsentrasi 5%	180.000'	146.363	.254	-157.51	517.51
	Konsentrasi 10%	-650.000'	146.363	.002	-987.51	-312.49
	Konsentrasi 15%	-750.000'	146.363	.001	-1087.51	-412.49
Konsentrasi 5%	Basis	-180.000	146.363	.254	-517.51	157.51
	Konsentrasi 10%	-830.000'	146.363	.000	-1167.51	-492.49
	Konsentrasi 15%	-930.000'	146.363	.000	-1267.51	-592.49
Konsentrasi 10%	Basis	650.000'	146.363	.002	312.49	987.51
	Konsentrasi 5%	830.000'	146.363	.000	492.49	1167.51
	Konsentrasi 15%	-100.000	146.363	.514	-437.51	237.51
Konsentrasi 15%	Basis	750.000'	146.363	.001	412.49	1087.51
	Konsentrasi 5%	930.000'	146.363	.000	592.49	1267.51
	Konsentrasi 10%	100.000	146.363	.514	-237.51	437.51

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

### Lampiran 12. Hasil Uji Diameter Luka Bakar

Kelompok	Tikus	Hari 2	Hari 4	Hari 6	Hari 8	Hari 10	Hari 12	Hari 14
Kontrol Normal	I	19,80	18,85	17,85	16,92	15,00	13,25	10,43
	II	19,65	18,58	17,78	16,90	15,63	12,68	11,38
	III	19,75	18,60	17,80	16,93	15,45	14,45	12,33
	IV	19,68	18,55	17,90	17,08	15,73	14,00	11,60
	<b>Mean</b>	<b>19,72</b>	<b>18,65</b>	<b>17,83</b>	<b>16,96</b>	<b>15,45</b>	<b>13,59</b>	<b>11,43</b>
	<b>±SD</b>	<b>0,07</b>	<b>0,14</b>	<b>0,05</b>	<b>0,08</b>	<b>0,32</b>	<b>0,79</b>	<b>0,78</b>
Kontrol Positif	I	18,70	17,25	16,23	14,15	13,42	11,63	9,95
	II	19,00	18,38	17,25	15,00	14,30	12,75	10,43
	III	18,55	17,95	16,65	14,40	13,38	11,58	9,80
	IV	18,95	17,23	16,30	14,20	13,78	11,88	9,50
	<b>Mean</b>	<b>18,80</b>	<b>17,70</b>	<b>16,61</b>	<b>14,44</b>	<b>13,72</b>	<b>11,96</b>	<b>9,92</b>
	<b>±SD</b>	<b>0,21</b>	<b>0,56</b>	<b>0,47</b>	<b>0,39</b>	<b>0,43</b>	<b>0,54</b>	<b>0,39</b>
Kontrol Negatif	I	19,85	19,18	18,15	17,03	15,80	13,90	11,98
	II	19,83	18,98	18,18	17,37	16,43	13,05	12,10
	III	19,75	19,30	18,33	17,38	16,08	13,00	11,95
	IV	19,76	18,95	18,00	16,98	15,95	13,10	12,33
	<b>Mean</b>	<b>19,80</b>	<b>19,10</b>	<b>18,17</b>	<b>17,19</b>	<b>16,06</b>	<b>13,26</b>	<b>12,09</b>
	<b>±SD</b>	<b>0,05</b>	<b>0,17</b>	<b>0,14</b>	<b>0,22</b>	<b>0,27</b>	<b>0,43</b>	<b>0,17</b>
Konsentrasi 5%	I	17,30	16,08	14,30	12,73	11,53	10,53	9,53
	II	17,43	16,40	13,68	12,50	11,75	10,53	9,76
	III	17,95	16,50	13,68	12,23	11,28	10,73	9,80
	IV	17,45	16,80	13,35	12,00	11,00	8,20	8,45
	<b>Mean</b>	<b>17,53</b>	<b>16,44</b>	<b>13,75</b>	<b>12,37</b>	<b>11,39</b>	<b>9,99</b>	<b>9,39</b>
	<b>±SD</b>	<b>0,29</b>	<b>0,30</b>	<b>0,40</b>	<b>0,32</b>	<b>0,32</b>	<b>1,20</b>	<b>0,63</b>
Konsentrasi 10%	I	17,30	15,93	12,95	12,28	9,08	8,20	7,50
	II	17,55	16,33	12,90	11,85	8,88	8,47	7,60
	III	17,63	16,13	13,18	11,93	8,88	8,10	7,69
	IV	17,38	16,28	13,05	11,53	8,98	7,90	7,42
	<b>Mean</b>	<b>17,47</b>	<b>16,16</b>	<b>13,02</b>	<b>11,89</b>	<b>8,95</b>	<b>8,17</b>	<b>7,55</b>
	<b>±SD</b>	<b>0,15</b>	<b>0,18</b>	<b>0,12</b>	<b>0,31</b>	<b>0,10</b>	<b>0,24</b>	<b>0,12</b>
Konsentrasi 15%	I	17,00	15,50	12,73	11,05	7,13	7,00	6,10
	II	17,00	15,60	12,33	10,78	6,53	6,90	5,95
	III	17,18	15,65	12,70	11,30	7,20	6,75	5,79
	IV	17,25	15,83	12,70	11,33	6,48	6,20	5,80
	<b>Mean</b>	<b>17,11</b>	<b>15,64</b>	<b>12,61</b>	<b>11,11</b>	<b>6,83</b>	<b>6,71</b>	<b>5,91</b>
	<b>±SD</b>	<b>0,13</b>	<b>0,14</b>	<b>0,19</b>	<b>0,26</b>	<b>0,38</b>	<b>0,36</b>	<b>0,15</b>

### Lampiran 13. Analisis Hasil Uji Diameter Luka Bakar

#### Kelompok

Case Processing Summary

Kelompok	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
Hasil Kontrol Normal	7	100.0%	0	.0%	7	100.0%
Kontrol Positif	7	100.0%	0	.0%	7	100.0%
Kontrol Negatif	7	100.0%	0	.0%	7	100.0%
Konsentrasi 5%	7	100.0%	0	.0%	7	100.0%
Konsentrasi 10%	7	100.0%	0	.0%	7	100.0%
Konsentrasi 15%	7	100.0%	0	.0%	7	100.0%

Descriptives

Kelompok	Statistic	Std. Error
Hasil Kontrol Normal	Mean	16.2329
	95% Confidence Interval for Mean	13.5168
	Lower Bound	18.9489
	Upper Bound	16.3060
	5% Trimmed Mean	16.9600
	Median	8.625
	Variance	2.93676
	Std. Deviation	11.43
	Minimum	19.72
	Maximum	8.29
	Range	5.06
	Interquartile Range	-.633
	Skewness	.794
	Kurtosis	-1.587
Kontrol Positif	Mean	14.7357
	95% Confidence Interval for Mean	11.7909
	Lower Bound	17.6806
	Upper Bound	14.7775
	5% Trimmed Mean	14.4400
	Median	10.139
	Variance	3.18416
	Std. Deviation	9.92
	Minimum	18.80
	Maximum	8.88
	Range	5.74
	Interquartile Range	-.248
	Skewness	.794
	Kurtosis	-1.039
Kontrol Negatif	Mean	16.5243
	95% Confidence Interval for Mean	13.8266
	Lower Bound	19.2220
	Upper Bound	16.5887
	5% Trimmed Mean	17.1900
	Median	8.508
	Variance	2.91691
	Std. Deviation	12.09
	Minimum	19.80
	Maximum	7.71
	Range	5.84
	Interquartile Range	-.612
	Skewness	.794
	Kurtosis	-1.101
Konsentrasi 5%	Mean	12.9800
	95% Confidence Interval for Mean	10.1047
	Lower Bound	15.8553
	Upper Bound	12.9267
	5% Trimmed Mean	12.3700
	Median	9.666
	Variance	3.10900
	Std. Deviation	9.39
	Minimum	17.53
	Maximum	8.14
	Range	6.45
	Interquartile Range	.457
	Skewness	.794
	Kurtosis	-1.280



Konsentrasi 10%	Mean		11.8871	1.47973
	95% Confidence Interval for Mean	Lower Bound	8.2664	
		Upper Bound	15.5079	
	5% Trimmed Mean		11.8179	
	Median		11.8900	
	Variance		15.327	
	Std. Deviation		3.91501	
	Minimum		7.55	
	Maximum		17.47	
	Range		9.92	
	Interquartile Range		7.99	
	Skewness		.370	.794
	Kurtosis		-1.575	1.587
Konsentrasi 15%	Mean		10.8457	1.71131
	95% Confidence Interval for Mean	Lower Bound	6.6583	
		Upper Bound	15.0331	
	5% Trimmed Mean		10.7719	
	Median		11.1100	
	Variance		20.500	
	Std. Deviation		4.52770	
	Minimum		5.91	
	Maximum		17.11	
	Range		11.20	
	Interquartile Range		8.93	
	Skewness		.266	.794
	Kurtosis		-1.820	1.587

#### Tests of Normality

Kelompok	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Hasil						
Kontrol Normal	.169	7	.200 <sup>*</sup>	.956	7	.787
Kontrol Positif	.151	7	.200 <sup>*</sup>	.970	7	.896
Kontrol Negatif	.162	7	.200 <sup>*</sup>	.925	7	.509
Konsentrasi 5%	.153	7	.200 <sup>*</sup>	.934	7	.585
Konsentrasi 10%	.202	7	.200 <sup>*</sup>	.916	7	.437
Konsentrasi 15%	.241	7	.200 <sup>*</sup>	.896	7	.310

a. Lilliefors Significance Correction

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

## Oneway

[DataSet1] C:\Users\ACER\Documents\Bismillah variabel view fix.sav

#### Test of Homogeneity of Variances

Hasil

Levene Statistic	df1	df2	Sig.
.761	5	36	.584

#### ANOVA

Hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	190.735	5	38.147	3.145	.019
Within Groups	436.590	36	12.128		
Total	627.325	41			

## Post Hoc Tests

### Multiple Comparisons

Hasil LSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol Normal	Kontrol Positif	1.49714	1.86145	.427	-2.2781	5.2723
	Kontrol Negatif	-.29143	1.86145	.876	-4.0666	3.4838
	Konsentrasi 5%	3.25286	1.86145	.089	-.5223	7.0281
	Konsentrasi 10%	4.34571 <sup>*</sup>	1.86145	.025	.5705	8.1209
	Konsentrasi 15%	5.38714 <sup>*</sup>	1.86145	.006	1.6119	9.1623
Kontrol Positif	Kontrol Normal	-1.49714	1.86145	.427	-5.2723	2.2781
	Kontrol Negatif	-1.78857	1.86145	.343	-5.5638	1.9866
	Konsentrasi 5%	1.75571	1.86145	.352	-2.0195	5.5309
	Konsentrasi 10%	2.84857	1.86145	.135	-.9266	6.6238
	Konsentrasi 15%	3.89000 <sup>*</sup>	1.86145	.044	.1148	7.6652
Kontrol Negatif	Kontrol Normal	.29143	1.86145	.876	-3.4838	4.0666
	Kontrol Positif	1.78857	1.86145	.343	-1.9866	5.5638
	Konsentrasi 5%	3.54429	1.86145	.065	-.2309	7.3195
	Konsentrasi 10%	4.63714 <sup>*</sup>	1.86145	.017	.8619	8.4123
	Konsentrasi 15%	5.67857 <sup>*</sup>	1.86145	.004	1.9034	9.4538
Konsentrasi 5%	Kontrol Normal	-3.25286	1.86145	.089	-7.0281	.5223
	Kontrol Positif	-1.75571	1.86145	.352	-5.5309	2.0195
	Kontrol Negatif	-3.54429	1.86145	.065	-7.3195	.2309
	Konsentrasi 10%	1.09286	1.86145	.561	-2.6823	4.8681
	Konsentrasi 15%	2.13429	1.86145	.259	-1.6409	5.9095
Konsentrasi 10%	Kontrol Normal	-4.34571 <sup>*</sup>	1.86145	.025	-8.1209	-.5705
	Kontrol Positif	-2.84857	1.86145	.135	-6.6238	.9266
	Kontrol Negatif	-4.63714 <sup>*</sup>	1.86145	.017	-8.4123	-.8619
	Konsentrasi 5%	-1.09286	1.86145	.561	-4.8681	2.6823
	Konsentrasi 15%	1.04143	1.86145	.579	-2.7338	4.8166
Konsentrasi 15%	Kontrol Normal	-5.38714 <sup>*</sup>	1.86145	.006	-9.1623	-1.6119
	Kontrol Positif	-3.89000 <sup>*</sup>	1.86145	.044	-7.6652	-.1148
	Kontrol Negatif	-5.67857 <sup>*</sup>	1.86145	.004	-9.4538	-1.9034
	Konsentrasi 5%	-2.13429	1.86145	.259	-5.9095	1.6409
	Konsentrasi 10%	-1.04143	1.86145	.579	-4.8166	2.7338

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

**Lampiran 14. Hasil Persentase Penyembuhan Luka Bakar**

Kelompok	Tikus	Hari 2	Hari 4	Hari 6	Hari 8	Hari 10	Hari 12	Hari 14
Kontrol Normal	I	1	6	11	15	25	34	48
	II	2	7	11	15	22	37	43
	III	1	7	11	15	23	28	38
	IV	2	7	10	15	21	30	42
	<b>Mean</b>	<b>1,50</b>	<b>6,75</b>	<b>10,75</b>	<b>15,00</b>	<b>22,75</b>	<b>32,25</b>	<b>42,75</b>
	<b>±SD</b>	<b>0,58</b>	<b>0,50</b>	<b>0,50</b>	<b>0,00</b>	<b>1,71</b>	<b>4,03</b>	<b>4,11</b>
Kontrol Positif	I	6	14	19	29	33	42	50
	II	5	8	14	25	28	36	48
	III	7	10	17	28	33	42	51
	IV	9	14	18	29	31	41	52
	<b>Mean</b>	<b>6,75</b>	<b>11,50</b>	<b>17,00</b>	<b>27,75</b>	<b>31,25</b>	<b>40,25</b>	<b>50,25</b>
	<b>±SD</b>	<b>1,71</b>	<b>3,00</b>	<b>2,16</b>	<b>1,89</b>	<b>2,36</b>	<b>2,87</b>	<b>1,71</b>
Kontrol Negatif	I	1	4	9	15	21	30	40
	II	1	5	9	13	18	35	39
	III	1	3	8	13	20	35	40
	IV	1	5	10	15	20	34	38
	<b>Mean</b>	<b>1,00</b>	<b>4,25</b>	<b>9,00</b>	<b>14,00</b>	<b>19,75</b>	<b>33,50</b>	<b>39,25</b>
	<b>±SD</b>	<b>0,00</b>	<b>0,96</b>	<b>0,82</b>	<b>1,15</b>	<b>1,26</b>	<b>2,38</b>	<b>0,96</b>
Konsentrasi 5%	I	13	16	28	36	42	47	52
	II	13	18	32	37	41	47	51
	III	10	17	32	39	44	46	51
	IV	13	16	33	40	45	59	58
	<b>Mean</b>	<b>12,25</b>	<b>16,75</b>	<b>31,25</b>	<b>38,00</b>	<b>43,00</b>	<b>49,75</b>	<b>53,00</b>
	<b>±SD</b>	<b>1,50</b>	<b>0,96</b>	<b>2,22</b>	<b>1,83</b>	<b>1,83</b>	<b>6,18</b>	<b>3,37</b>
Konsentrasi 10%	I	13	20	35	39	55	59	62
	II	12	18	35	41	56	58	62
	III	12	19	34	40	56	59	61
	IV	13	19	35	42	55	60	63
	<b>Mean</b>	<b>12,50</b>	<b>19,00</b>	<b>34,75</b>	<b>40,50</b>	<b>55,50</b>	<b>59,00</b>	<b>62,00</b>
	<b>±SD</b>	<b>0,58</b>	<b>0,82</b>	<b>0,50</b>	<b>1,29</b>	<b>0,58</b>	<b>0,82</b>	<b>0,82</b>
Konsentrasi 15%	I	15	22	38	45	64	65	69
	II	15	22	38	46	67	65	70
	III	14	22	36	43	64	66	71
	IV	14	21	36	43	68	69	71
	<b>Mean</b>	<b>14,50</b>	<b>21,75</b>	<b>37,00</b>	<b>44,25</b>	<b>65,75</b>	<b>66,25</b>	<b>70,25</b>
	<b>±SD</b>	<b>0,58</b>	<b>0,50</b>	<b>1,15</b>	<b>1,50</b>	<b>2,06</b>	<b>1,89</b>	<b>0,96</b>

## Lampiran 15. Hasil Analisis Persentase Luka Bakar

### Kelompok

		Case Processing Summary					
		Cases					
		Valid		Missing		Total	
	Kelompok	N	Percent	N	Percent	N	Percent
Persentase	Kontrol Normal	7	100.0%	0	.0%	7	100.0%
	Kontrol Positif	7	100.0%	0	.0%	7	100.0%
	Kontrol Negatif	7	100.0%	0	.0%	7	100.0%
	Konsentrasi 5%	7	100.0%	0	.0%	7	100.0%
	Konsentrasi 10%	7	100.0%	0	.0%	7	100.0%
	Konsentrasi 15%	7	100.0%	0	.0%	7	100.0%

		Descriptives				Statistic	Std. Error
	Kelompok						
Persentase	Kontrol Normal	Mean			18.8214	5.55029	
		95% Confidence Interval for Mean	Lower Bound	5.2404			
			Upper Bound	32.4025			
		5% Trimmed Mean		18.4544			
		Median		15.0000			
		Variance		215.640			
		Std. Deviation		1.4684E1			
		Minimum		1.50			
		Maximum		42.75			
		Range		41.25			
		Interquartile Range		25.50			
		Skewness		.637		.794	
		Kurtosis		-.620		1.587	
		Kontrol Positif	Kontrol Positif	Mean			26.3929
95% Confidence Interval for Mean	Lower Bound			11.8554			
	Upper Bound			40.9303			
5% Trimmed Mean				26.1587			
Median				27.7500			
Variance				247.080			
Std. Deviation				1.5718E1			
Minimum				6.75			
Maximum				50.25			
Range				43.50			
Interquartile Range				28.75			
Skewness				.279		.794	
Kurtosis				-1.064		1.587	
Kontrol Negatif	Kontrol Negatif			Mean			17.1429
		95% Confidence Interval for Mean	Lower Bound	3.7260			
			Upper Bound	30.5597			
		5% Trimmed Mean		16.8115			
		Median		14.0000			
		Variance		210.455			
		Std. Deviation		1.4507E1			
		Minimum		1.00			
		Maximum		39.25			
		Range		38.25			
		Interquartile Range		29.25			
		Skewness		.632		.794	
		Kurtosis		-1.075		1.587	
		Konsentrasi 5%	Konsentrasi 5%	Mean			34.8571
95% Confidence Interval for Mean	Lower Bound			20.3362			
	Upper Bound			49.3780			
5% Trimmed Mean				35.1052			
Median				38.0000			
Variance				246.518			
Std. Deviation				1.5700E1			
Minimum				12.25			
Maximum				53.00			
Range				40.75			
Interquartile Range				33.00			
Skewness				-.464		.794	
Kurtosis				-1.323		1.587	

Konsentrasi 10%	Mean		40.4643	7.41428
	95% Confidence Interval for Mean	Lower Bound	22.3222	
		Upper Bound	58.6064	
	5% Trimmed Mean		40.8214	
	Median		40.5000	
	Variance		384.801	
	Std. Deviation		1.9616E1	
	Minimum		12.50	
	Maximum		62.00	
	Range		49.50	
	Interquartile Range		40.00	
	Skewness		-.377	.794
	Kurtosis		-1.589	1.587
	Konsentrasi 15%	Mean		45.6786
95% Confidence Interval for Mean		Lower Bound	24.8205	
		Upper Bound	66.5367	
5% Trimmed Mean			46.0456	
Median			44.2500	
Variance			508.640	
Std. Deviation			2.2553E1	
Minimum			14.50	
Maximum			70.25	
Range			55.75	
Interquartile Range			44.50	
Skewness			-.265	.794
Kurtosis			-1.821	1.587

#### Tests of Normality

Kelompok	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Persentase Kontrol Normal	.174	7	.200 <sup>*</sup>	.953	7	.761
Kontrol Positif	.154	7	.200 <sup>*</sup>	.965	7	.862
Kontrol Negatif	.163	7	.200 <sup>*</sup>	.921	7	.480
Konsentrasi 5%	.161	7	.200 <sup>*</sup>	.928	7	.534
Konsentrasi 10%	.207	7	.200 <sup>*</sup>	.912	7	.412
Konsentrasi 15%	.242	7	.200 <sup>*</sup>	.896	7	.305

a. Lilliefors Significance Correction

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

#### Oneway

[DataSet1] C:\Users\ACER\Documents\Variabel view persentase.sav

#### Test of Homogeneity of Variances

Persentase			
Levene Statistic	df1	df2	Sig.
.766	5	36	.581

#### ANOVA

Persentase					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	4762.173	5	952.435	3.152	.018
Within Groups	10878.804	36	302.189		
Total	15640.976	41			

## Post Hoc Tests

### Multiple Comparisons

Persentase  
LSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Kontrol Normal	Kontrol Positif	-7.57143	9.29192	.421	-26.4163	11.2735
	Kontrol Negatif	1.67857	9.29192	.858	-17.1663	20.5235
	Konsentrasi 5%	-16.03571	9.29192	.093	-34.8806	2.8092
	Konsentrasi 10%	-21.64286 <sup>*</sup>	9.29192	.026	-40.4877	-2.7980
	Konsentrasi 15%	-26.85714 <sup>*</sup>	9.29192	.006	-45.7020	-8.0123
Kontrol Positif	Kontrol Normal	7.57143	9.29192	.421	-11.2735	26.4163
	Kontrol Negatif	9.25000	9.29192	.326	-9.5949	28.0949
	Konsentrasi 5%	-8.46429	9.29192	.368	-27.3092	10.3806
	Konsentrasi 10%	-14.07143	9.29192	.139	-32.9163	4.7735
	Konsentrasi 15%	-19.28571 <sup>*</sup>	9.29192	.045	-38.1306	-4.408
Kontrol Negatif	Kontrol Normal	-1.67857	9.29192	.858	-20.5235	17.1663
	Kontrol Positif	-9.25000	9.29192	.326	-28.0949	9.5949
	Konsentrasi 5%	-17.71429	9.29192	.065	-36.5592	1.1306
	Konsentrasi 10%	-23.32143 <sup>*</sup>	9.29192	.017	-42.1663	-4.4765
	Konsentrasi 15%	-28.53571 <sup>*</sup>	9.29192	.004	-47.3806	-9.6908
Konsentrasi 5%	Kontrol Normal	16.03571	9.29192	.093	-2.8092	34.8806
	Kontrol Positif	8.46429	9.29192	.368	-10.3806	27.3092
	Kontrol Negatif	17.71429	9.29192	.065	-1.1306	36.5592
	Konsentrasi 10%	-5.60714	9.29192	.550	-24.4520	13.2377
	Konsentrasi 15%	-10.82143	9.29192	.252	-29.6663	8.0235
Konsentrasi 10%	Kontrol Normal	21.64286 <sup>*</sup>	9.29192	.026	2.7980	40.4877
	Kontrol Positif	14.07143	9.29192	.139	-4.7735	32.9163
	Kontrol Negatif	23.32143 <sup>*</sup>	9.29192	.017	4.4765	42.1663
	Konsentrasi 5%	5.60714	9.29192	.550	-13.2377	24.4520
	Konsentrasi 15%	-5.21429	9.29192	.578	-24.0592	13.6306
Konsentrasi 15%	Kontrol Normal	26.85714 <sup>*</sup>	9.29192	.006	8.0123	45.7020
	Kontrol Positif	19.28571 <sup>*</sup>	9.29192	.045	4.408	38.1306
	Kontrol Negatif	28.53571 <sup>*</sup>	9.29192	.004	9.6908	47.3806
	Konsentrasi 5%	10.82143	9.29192	.252	-8.0235	29.6663
	Konsentrasi 10%	5.21429	9.29192	.578	-13.6306	24.0592

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

## Lampiran 16. Dokumentasi Penelitian



Keterangan:  
Pengeringan



Keterangan:  
Penimbangan simplisia



Keterangan:  
Blender simplisia



Keterangan:  
Penimbangan Serbuk



Keterangan:  
Proses maserasi



Keterangan:  
Penyaringan



Keterangan:  
Pengentalan ekstrak dengan *evaporator*



Keterangan:  
Ekstrak kental



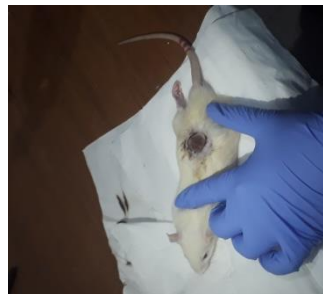
Keterangan:  
Uji kadar air



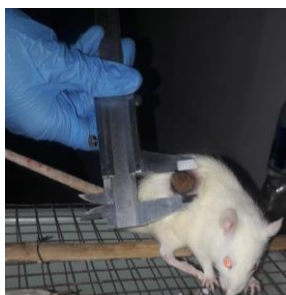
Keterangan :  
Kontrol positif



Keterangan:  
Perlakuan luka bakar



Keterangan:  
Luka bakar



Keterangan:  
Pengukuran diameter  
luka bakar



Keterangan:  
Uji flavonoid



Keterangan:  
Uji tanin



Keterangan:  
Penentuan bercak noda  
pada lempeng KLT

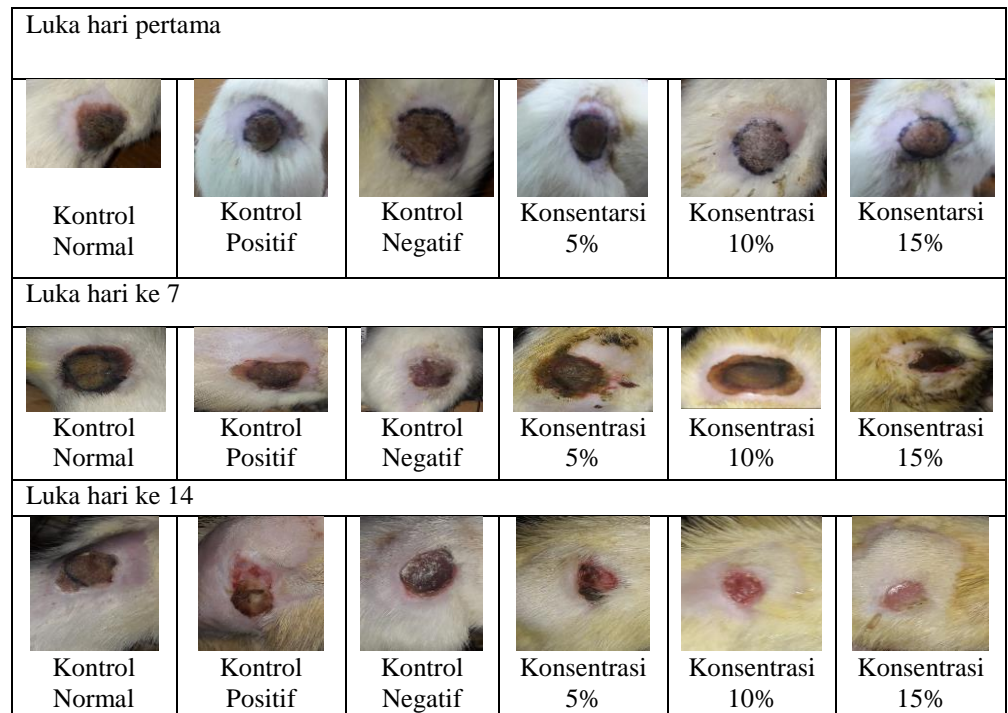


Keterangan:  
Larutan sampel dan  
larutan standart



Keterangan:  
Bercak noda sebelum di  
semprot  $\text{FeCl}_3$





**Gambar luka pada hari ke- 1, ke- 7 dengan ke-14.**