

LAMPIRAN

Lampiran 1. Determinasi



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, email : labbiologi.unnes@yahoo.com

Semarang, 3 Januari 2019

No. : 873 /UN/37.1.4.5/LT/2018
Lampiran : -
Perihal : Hasil identifikasi tumbuhan

Kepada Yth.

Sdr. Intan Umari – NIM. 33101500370

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 : Liliopsida
SubClassis : Zingiberidae
Ordo : Zingiberales
Familia : Musaceae
Genus : Musa
Species : *Musa x paradisiaca* L.
Cultivar : *Musa x paradisiaca* L. ctv. Kepok - (ABB Group)
Vern. name : Pisang Kepok

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 2. Identifikasi hewan uji



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. 01 /PM/VIII/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 : Muhammad Samsul Nur Salim
 NIM : 33101500379
 Institusi : Prodi Farmasi Fakultas Kedokteran UNISSULA

Pada bulan April 2019 telah membeli Mencit galur *Swiss Webster*, jantan usia 8 minggu dengan taksonomi sebagai berikut :

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

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

Semarang, 7 Agustus 2019



(Rina Wijayanti, M. Sc., Apt)
 NIDN: 0618018201

Lampiran 3. Uji Kadar Air

```

TIME          M/W(%)
00:00:00      0.00
SHIMADZU CORP.
TYPE MOC63u
SN D209402743
ID 0000
CODE 0079
DATE 18-09-05
TIME 09:24
PNO. 1
UNIT M/W
MODE TIME
TEMP 120C
STOP 00:15

Met W(a)      0.319

TIME          M/W(%)
00:00:00      0.00
*00:15:00     3.45

```

Keterangan : Kadar Air Simplisia

```

SHIMADZU CORP.
TYPE MOC63u
SN D209402743
ID 0000
CODE 0016
DATE 19-03-15
TIME 09:52
PNO. 1
UNIT M/W
MODE TIME
TEMP 120C
STOP 00:15

Met W(a)      0.492

TIME          M/W(%)
00:00:00      0.00
*00:15:00     3.86

```

Keterangan : Kadar Air Simplisia

Lampiran 4. Perhitungan Rendemen dan Susut Pengeringan

Rendemen Ekstrak

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

$$Rendemen = \frac{42,35 \text{ gram}}{170 \text{ gram}} \times 100\%$$

$$Rendemen = 24,91 \%$$

Susut Pengeringan

$$= \frac{\text{berat simplisia basah} - \text{berat simplisia kering}}{\text{berat simplisia basah}} \times 100\%$$

$$= \frac{2.470 \text{ gram} - 0,170 \text{ gram}}{2.470 \text{ gram}} \times 100\%$$

$$= 93,11 \%$$

Lampiran 5. Hasil Uji Kualitatif Ekstrak Etanolik Jantung Pisang



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



PRODI FARMASI FK

Bismillah Membangun Generasi Khaira Ummah

LAPORAN HASIL UJI

No. Sertifikat : 91/LPF/II/2018

Informasi Peneliti

Nama : Intan Umari

Tanggal Pengujian: 22 Januari 2019

NIM : 33101500370

Hasil Pengujian

Skrining Fitokimia Ekstrak Etanolik Jantung Pisang (*Musa x paradisiaca* L):

Parameter Uji	Reagen	Hasil Identifikasi	Metode	Kesimpulan
Flavonoid	Serbuk Mg dan HCl pekat	Terbentuknya warna kecoklatan	Tabung	Positif
Saponin	Aquadest dan HCl 2N	Terbentuknya buih setinggi 1,5 cm	Tabung	Positif
Fenol	Etanol 70% dan FeCl ₃ 5%	Terbentuknya warna kehijauan	Tabung	Positif
Alkaloid	Reagen Dragendroff	Terbentuknya endapan warna jingga kecoklatan	Tabung	Positif

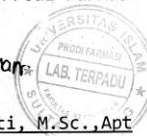
Semarang, 14 Maret 2019

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 6. Perhitungan Pengenceran, HLB dan Dosis Krim

Keterangan : Pengenceran konsentrasi ekstrak F1 (0,002 g)

0,2 g ekstrak ad 100 mL

$$F1 = \frac{2 \text{ mg}}{100 \text{ mg}} \times 100 \text{ mL} = 2 \text{ mL}$$

Keterangan : Perhitungan HLB Krim

$$Tween\ 80 = \frac{5,7}{10,35} \times 15 = 8,2608$$

$$Span\ 80 = \frac{2,2}{10,35} \times 4,3 = 0,9140$$

$$TEA = \frac{2,45}{10,35} \times 12 = 2,8405$$

$$HLB\ Campuran = (8,2608 + 0,9140 + 2,8405) = 12,0153$$

Keterangan : Perhitungan Dosis Krim

Nilai IC₅₀ = 21,241 ppm = 21,241 mg/L

$$\text{Formula 1 (1xIC}_{50}) = \frac{2 \text{ mg}}{100 \text{ ml}} = \frac{0,002 \text{ g}}{0,1 \text{ L}}$$

$$\text{Formula 2 (20xIC}_{50}) = 0,04 \text{ g/0,1L}$$

$$\text{Formula 3 (40xIC}_{50}) = 0,08 \text{ g/0,1L}$$

Lampiran 7. Hasil Uji DPPH

Data Absorbansi, % Inhibisi, Nilai IC₅₀, Kurva Regresi, dan data linearitas ekstrak etanolik jantung pisang kepok

a. Data Absorbansi dari ekstrak etanolik jantung pisang kepok

Tabel 1. Data Absorbansi ekstrak etanolik jantung pisang kepok

Konsentrasi (ppm)	Absorbansi		
	I	II	III
20	0,3873	0,3845	0,3861
40	0,3622	0,3656	0,364
60	0,3575	0,3586	0,3575
80	0,3432	0,3427	0,3531
100	0,3398	0,341	0,3387
DPPH	0,7603		

b. Hasil % inhibisi dari ekstrak etanolik jantung pisang kepok

Contoh :

Konsentrasi 20 ppm replikasi 1

$$\begin{aligned}
 \% \text{ Inhibisi} &= \left(1 - \frac{\text{abs sampel}}{\text{abs kontrol}}\right) \times 100\% \\
 &= \left(1 - \frac{0,3873}{0,7603}\right) \times 100\% \\
 &= 49,0596
 \end{aligned}$$

Tabel 2. Data % Inhibisi dari ekstrak etanolik jantung pisang kepok

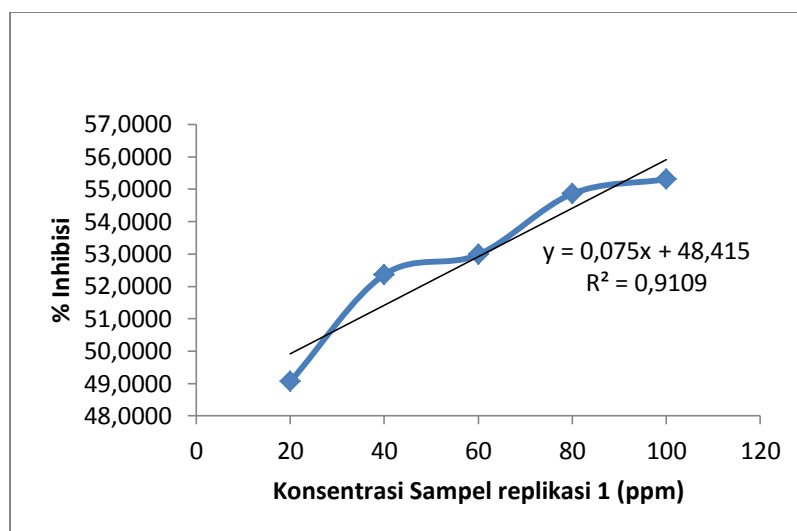
Konsentrasi (ppm)	% Inhibisi		
	I	II	III
20	49,0596	49,4279	49,2174
40	52,3609	51,9137	52,1242
60	52,9791	52,8344	52,9791
80	54,8599	54,9257	53,5578
100	55,3071	55,1493	55,4518

c. Hasil IC_{50} sub fraksi dari fraksi etil asetat dan fraksi tak larut etil asetat

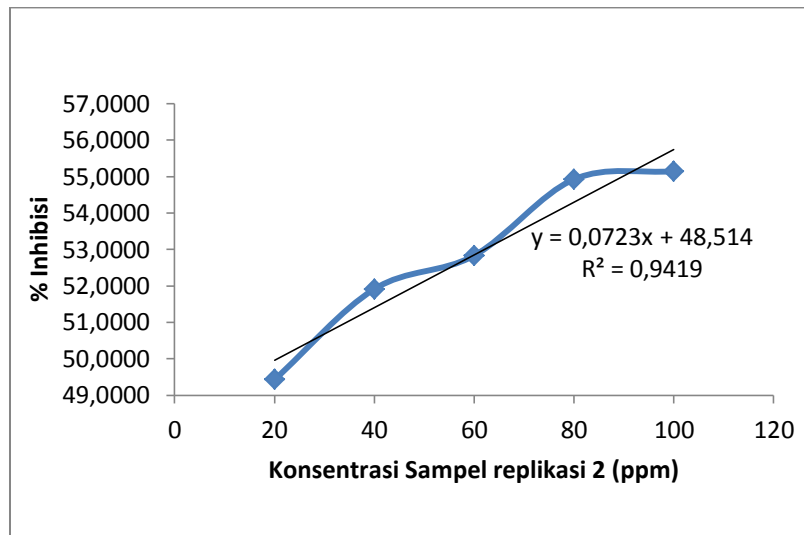
Tabel 3. Hasil IC_{50} sub fraksi dari fraksi etil asetat

Replikasi	IC ₅₀ ekstrak etanolik jantung pisang (ppm)
	Ekstrak Etanolik
I	49,0596
II	49,4279
III	49,2174
$\bar{x}$	49,2350
SD	0,1848

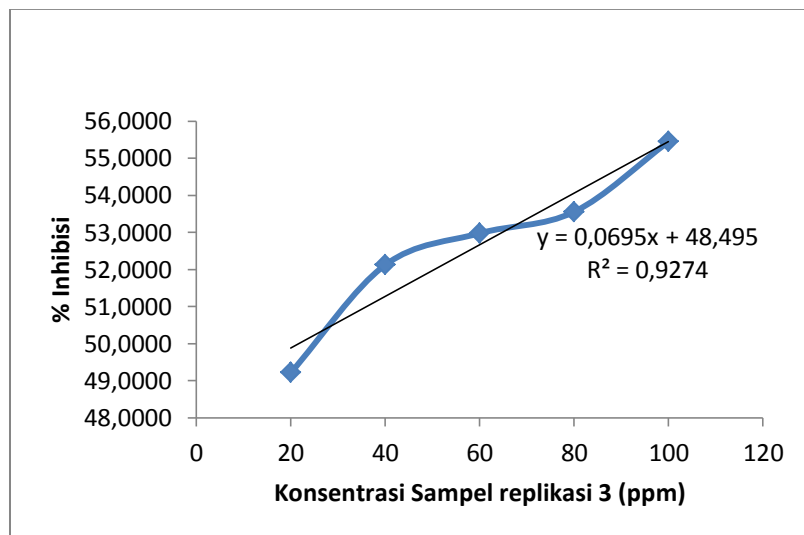
d. Kurva regresi linier antara sampel dengan % inhibisi Ekstrak etanolik jantung pisang



Gambar 1. Kurva regresi linier antara konsentrasi ekstrak etanol replikasi I dengan % inhibisi DPPH.



Gambar 2. Kurva regresi linier antara konsentrasi ekstrak etanol replikasi II dengan % inhibisi DPPH.



Gambar 3. Kurva regresi linier antara konsentrasi ekstrak etanol replikasi III dengan % inhibisi DPPH.

e. **Data Linieritas Hasil Uji Dpph Ekstrak etanolik Jantung Pisang Kepok**

Tabel 4. Data Linieritas Hasil Uji Dpph Ekstrak etanolik Jantung Pisang Kepok

replikasi	regresi linier	persamaan	IC50
1	48,41 0,075 0,91	$y = 1,195x + 29,87$	21,2000
2	48,514 0,072 0,941	$y = 1,275x + 28,97$	20,6389
3	48,49 0,069 0,927	$y = 1,221x + 30,04$	21,8841

Tabel 5. Data rata-rata IC50 ekstrak etanolik jantung pisang kepok

Replikasi	IC 50
	E-JAPI
I	21,2000
II	20,6389
III	21,8841
rerata	21,2410
SD	0,6236
rerata ± SD	21,2410 ± 0,6236

Lampiran 8. Ethical Clearen

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. 414/VII/2019/Komisi Bioetik

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

AKTIVITAS ANTIOKSIDAN FORMULA OPTIMUM KRIM EKTRAK ETANOL JANTUNG PISANG KEPOK (*Musa paradisiaca* L.) SEBAGAI AGEN PREVENTIF TERHADAP PAPARAN SINAR UV

Peneliti Utama : Muhammad Samsul Nur Salin
 Pembimbing : Dr. Naniek Widyaningrum, M. Sc., Apt
 Rina Wijayanti, M.Sc., Apt
 Tempat Penelitian : Laboratorium Hewan IBL Fakultas Kedokteran Unissula

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, 26 Juli 2019
 Komisi Bioetika Penelitian Kedokteran/Kesehatan
 Fakultas Kedokteran Unissula

Ketua,

 dr. Subhan Daulan, Sp.F(K)

Lampiran 9. Lampiran Hasil



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INTEGRATED BIOMEDICAL LABORATORY
FAKULTAS KEDOKTERAN
 Jl. Raya Kaligawe KM 4, Semarang 50112
 Tel. +62246581584, email: ibla.unissula.ac.id

Laboratorium Biomedik Terintegrasi

SURAT KETERANGAN
No. 067 /IBL-FK/VIII/2019

Yang Bertanda tangan di bawah ini :

Nama : Dina Fatmawati, S.Si, M.Sc
 Jabatan : Kepala Laboratorium Biomedik Terintegrasi FK Unissula

Menerangkan bahwa mahasiswa :

Nama : Muhamad Samsul Nur Salim
 NIM : 33101500379
 Fakultas : Kedokteran Farmasi
 Universitas : Universitas Islam Sultan Agung
 Judul : Aktivitas Antioksidan Formula Optimum Krim Ekstrak Etanolik Jantung Pisang Kepok (*Musa paradisiaca* L.) Sebagai Agen Preventif Terhadap Paparan Sinar UV

Telah selesai melakukan penelitian di Laboratorium Biomedik Terintegrasi Fakultas Kedokteran Universitas Islam Sultan Agung, untuk menunjang penyusunan tugas Akhir (Skripsi). Adapun penelitian dilakukan pada 22 April 2019 s/d 8 Agustus 2019 dengan hasil terlampir

Demikian surat keterangan ini dibuat untuk dapat dipergunakan seperlunya.

Semarang, 9 Agustus 2019
 Mengetahui,
 Kepala Lab Biomedik Terintegrasi
 Fakultas Kedokteran Unissula


Dina Fatmawati, S.Si, M.Sc.
 NIK 210109143



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FAKULTAS KEDOKTERAN

Jl. Raya Kaligawe KM.4, Semarang 50112

Tel. +62246583584, email: ibl@unissula.ac.id

Laboratorium Biomedik Terintegrasi

Lampiran 1 : 5 Lembar

HASIL PENELITIAN

DATA KETEBALAN EPIDERMIS KELOMPOK S					
NO	KODE PREPARAT	KETEBALAN EPIDERMIS (um)			RATA RATA (um)
		I	II	III	
1	S.KEXT1.1	33.81	30.86	31.18	31.95
2	S.KEXT1.2	35.11	28.73	33.99	32.61
3	S.KEXT2.1	40.15	35.37	38.04	37.85
4	S.KEXT2.2	40.05	40.14	41.40	40.53
5	S.KEXT3.1	36.28	37.14	39.52	37.65
6	S.KEXT3.2	40.48	38.47	40.00	39.65
7	S.KBAS1.1	37.30	40.41	38.62	38.77
8	S.KBAS1.2	38.90	45.52	40.23	41.55
9	S.KBAS2.1	30.46	29.47	27.20	29.04
10	S.KBAS2.2	38.81	35.02	37.05	36.96
11	S.KBAS3.1	28.18	30.54	29.55	29.42
12	S.KBAS3.2	30.50	32.77	28.47	30.58
13	S.KF11.1	60.97	59.77	51.00	57.25
14	S.KF11.2	67.66	60.26	65.73	64.55
15	S.KF12.1	47.81	58.57	53.79	53.39
16	S.KF12.2	50.20	47.42	43.41	47.01
17	S.KF13.1	45.03	41.45	45.86	44.11
18	S.KF13.2	47.48	47.01	49.86	48.11
19	S.KF21.1	44.36	52.20	59.77	52.11
20	S.KF21.2	40.48	54.59	49.03	48.03
21	S.KF22.1	64.95	57.78	53.30	58.68
22	S.KF22.2	58.97	47.19	52.66	52.94
23	S.KF23.1	59.05	57.60	53.97	56.87
24	S.KF23.2	47.81	44.64	46.24	46.23



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Jl. Raya Kaligawe KM.4, Semarang 50112
Tel. +62246583584, email: ibl@unissula.ac.id

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25	S.KF31.1	40.48	45.79	45.43	43.90
26	S.KF31.2	62.03	61.70	54.10	59.28
27	S.KF32.1	58.80	48.69	47.04	51.51
28	S.KF32.2	40.98	46.25	46.72	44.65
29	S.KF33.1	75.30	80.33	83.31	79.64
30	S.KF33.2	78.89	80.17	82.92	80.66
31	S.KPOS1.1	78.09	65.76	66.15	70.00
32	S.KPOS1.2	78.09	68.14	52.30	66.18
33	S.KPOS2.1	59.37	56.19	56.98	57.51
34	S.KPOS2.2	75.15	66.94	82.35	74.81
35	S.KPOS3.1	60.44	54.62	56.96	57.34
36	S.KPOS3.2	58.64	59.74	60.63	62.70
37	S.KNEG1.1	35.93	40.36	35.45	37.24
38	S.KNEG1.2	40.02	43.26	42.42	41.90
39	S.KNEG2.1	22.73	25.29	23.93	23.97
40	S.KNEG2.2	27.71	22.69	23.91	24.77
41	S.KNEG3.1	23.73	25.06	25.90	24.89
42	S.KNEG3.2	20.28	21.51	19.02	20.27
43	S.KN11.1	50.09	37.06	54.98	47.38
44	S.KN11.2	46.08	51.94	53.06	50.36
45	S.KN12.1	64.19	62.65	65.54	64.12
46	S.KN12.2	66.02	68.62	64.20	66.28
47	S.KN13.1	62.51	70.36	66.26	66.37
48	S.KN13.2	67.93	72.36	60.98	67.09



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FAKULTAS KEDOKTERAN

Jl. Raya Kaligawe KM.4, Semarang 50112

Tel. +62246583584, email: ibla@unissula.ac.id

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HASIL PENELITIAN

DATA PENGUKURAN LUAS AREA KOLAGEN

NO	KODE PREPARAT	LUAS AREA (%)
1	S.BAS1.1	24.308
2	S.BAS1.2	22.858
3	S.BAS1.3	31.436
4	S.BAS1.4	25.632
5	S.BAS1.5	28.266
6	S.BAS2.1	30.260
7	S.BAS2.2	31.455
8	S.BAS2.3	28.065
9	S.BAS2.4	32.041
10	S.BAS2.5	33.079
11	S.BAS3.1	28.185
12	S.BAS3.2	30.188
13	S.BAS3.3	34.753
14	S.BAS3.4	31.744
15	S.BAS3.5	33.430
16	S.EXT1.1	35.849
17	S.EXT1.2	34.626
18	S.EXT1.3	32.000
19	S.EXT1.4	34.625
20	S.EXT1.5	36.650
21	S.EXT2.1	32.651
22	S.EXT2.2	31.365
23	S.EXT2.3	30.634
24	S.EXT2.4	30.830
25	S.EXT2.5	34.620
26	S.EXT3.1	24.973
27	S.EXT3.2	33.322
28	S.EXT3.3	30.058
29	S.EXT3.4	33.298
30	S.EXT3.5	26.599
31	S.KF11.1	22.362
32	S.KF11.2	26.604
33	S.KF11.3	27.604
34	S.KF11.4	25.284
35	S.KF11.5	20.446
36	S.KF12.1	40.563
37	S.KF12.2	39.634
38	S.KF12.3	41.628
39	S.KF12.4	38.256



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Jl. Raya Kaligawe KM.4, Semarang 50112
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40	S.KF12.5	40.969
41	S.KF13.1	32.872
42	S.KF13.2	31.726
43	S.KF13.3	34.912
44	S.KF13.4	35.267
45	S.KF13.5	36.623
46	S.KF21.1	36.892
47	S.KF21.2	34.672
48	S.KF21.3	36.762
49	S.KF21.4	35.070
50	S.KF21.5	37.755
51	S.KF22.1	36.018
52	S.KF22.2	32.807
53	S.KF22.3	35.902
54	S.KF22.4	34.008
55	S.KF22.5	38.365
56	S.KF23.1	37.340
57	S.KF23.2	31.502
58	S.KF23.3	32.091
59	S.KF23.4	36.952
60	S.KF23.5	36.915
61	S.KF31.1	43.782
62	S.KF31.2	38.628
63	S.KF31.3	40.543
64	S.KF31.4	36.871
65	S.KF31.5	44.426
66	S.KF32.1	43.643
67	S.KF32.2	45.690
68	S.KF32.3	40.201
69	S.KF32.4	38.823
70	S.KF32.5	35.693
71	S.KF33.1	38.278
72	S.KF33.2	36.738
73	S.KF33.3	35.645
74	S.KF33.4	37.873
75	S.KF33.5	40.766
76	S.NEG1.1	15.471
78	S.NEG1.2	20.032
79	S.NEG1.3	16.706
80	S.NEG1.4	19.820
81	S.NEG1.5	14.971
82	S.NEG2.1	27.218
83	S.NEG2.2	24.400



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Jl. Raya Kaligawe KM.4, Semarang 50112
Tel. +62246583584, email: ibla@unissula.ac.id

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84	<u>S.NEG2.3</u>	25.745
85	<u>S.NEG2.4</u>	30.112
86	<u>S.NEG2.5</u>	21.525
87	<u>S.NEG3.1</u>	30.572
88	<u>S.NEG3.2</u>	32.436
89	<u>S.NEG3.3</u>	28.472
90	<u>S.NEG3.4</u>	35.369
91	<u>S.NEG3.5</u>	30.651
92	<u>S.KN1.1</u>	41.656
93	<u>S.KN1.2</u>	38.448
94	<u>S.KN1.3</u>	30.209
95	<u>S.KN1.4</u>	33.824
95	<u>S.KN1.5</u>	30.563
96	<u>S.KN2.1</u>	42.637
97	<u>S.KN2.2</u>	38.827
98	<u>S.KN2.3</u>	40.761
99	<u>S.KN2.4</u>	37.532
100	<u>S.KN2.5</u>	41.493
101	<u>S.KN3.1</u>	42.376
102	<u>S.KN3.2</u>	39.628
103	<u>S.KN3.3</u>	40.625
104	<u>S.KN3.4</u>	38.524
105	<u>S.KN3.5</u>	53.047
106	<u>S.POS1.1</u>	46.982
107	<u>S.POS1.2</u>	56.979
108	<u>S.POS1.3</u>	48.880
109	<u>S.POS1.4</u>	54.482
110	<u>S.POS1.5</u>	44.877
111	<u>S.POS2.1</u>	41.331
112	<u>S.POS2.2</u>	46.796
113	<u>S.POS2.3</u>	48.200
114	<u>S.POS2.4</u>	51.748
115	<u>S.POS2.5</u>	47.425
116	<u>S.POS3.1</u>	40.898
117	<u>S.POS3.2</u>	46.802
118	<u>S.POS3.3</u>	42.637
119	<u>S.POS3.4</u>	43.490
120	<u>S.POS3.5</u>	47.723

Lampiran 10. Hasil Analisa Data Ketebalan Epidermis dan Kolagen

c. Ketebalan Epidermis

Case Processing Summary

Kelompok		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
hasil	kelompok ekstrak	3	100.0%	0	.0%	3	100.0%
	kelompok basis	3	100.0%	0	.0%	3	100.0%
	formula 1	3	100.0%	0	.0%	3	100.0%
	formula 2	3	100.0%	0	.0%	3	100.0%
	formula 3	3	100.0%	0	.0%	3	100.0%
	kontrol positif	3	100.0%	0	.0%	3	100.0%
	kontrol negatif	3	100.0%	0	.0%	3	100.0%
	kelompok normal	3	100.0%	0	.0%	3	100.0%

Descriptives

Kelompok			Statistic	Std. Error
hasil	kelompok ekstrak	Mean	36.7067	2.21882
		95% Confidence Interval Lower Bound for Mean	27.1599	
		Upper Bound	46.2535	
		5% Trimmed Mean	.	
		Median	38.6500	
		Variance	14.769	
		Std. Deviation	3.84310	
		Minimum	32.28	
		Maximum	39.19	
		Range	6.91	
		Interquartile Range	.	
		Skewness	-1.694	1.225

	Kurtosis	.	.
kelompok basis	Mean	34.3867	3.01378
	95% Confidence Interval for Mean	Lower Bound 21.4194 Upper Bound 47.3539	
	5% Trimmed Mean	.	
	Median	33.0000	
	Variance	27.249	
	Std. Deviation	5.22001	
	Minimum	30.00	
	Maximum	40.16	
	Range	10.16	
	Interquartile Range	.	
	Skewness	1.111	1.225
	Kurtosis	.	.
formula 1	Mean	52.3667	4.43638
	95% Confidence Interval for Mean	Lower Bound 33.2785 Upper Bound 71.4549	
	5% Trimmed Mean	.	
	Median	50.2050	
	Variance	59.044	
	Std. Deviation	7.68403	
	Minimum	46.00	
	Maximum	60.90	
	Range	14.91	
	Interquartile Range	.	
	Skewness	1.166	1.225
	Kurtosis	.	.
formula 2	Mean	52.4767	1.72056
	95% Confidence Interval for Mean	Lower Bound 45.0737 Upper Bound 59.8796	

	5% Trimmed Mean		.	
	Median		51.5500	
	Variance		8.881	
	Std. Deviation		2.98009	
	Minimum		50.07	
	Maximum		55.81	
	Range		5.74	
	Interquartile Range		.	
	Skewness		1.264	1.225
	Kurtosis		.	.
formula 3	Mean		58.9417	6.37204
	95% Confidence Interval for Mean	Lower Bound	31.5250	
		Upper Bound	86.3584	
	5% Trimmed Mean		.	
	Median		58.5900	
	Variance		121.809	
	Std. Deviation		1.10367E	
			1	
	Minimum		48.08	
	Maximum		70.15	
	Range		22.07	
	Interquartile Range		.	
	Skewness		.143	1.225
	Kurtosis		.	.
kontrol positif	Mean		64.7567	2.43298
	95% Confidence Interval for Mean	Lower Bound	54.2884	
		Upper Bound	75.2250	
	5% Trimmed Mean		.	
	Median		66.1600	
	Variance		17.758	

	Std. Deviation		4.21405	
	Minimum		60.02	
	Maximum		68.09	
	Range		8.07	
	Interquartile Range		.	
	Skewness		-1.332	1.225
	Kurtosis		.	.
kontrol negatif	Mean		28.8400	5.38983
	95% Confidence Interval	Lower Bound	5.6494	
	for Mean	Upper Bound	52.0306	
	5% Trimmed Mean		.	
	Median		24.3700	
	Variance		87.151	
	Std. Deviation		9.33545	
	Minimum		22.58	
	Maximum		39.57	
	Range		16.99	
	Interquartile Range		.	
	Skewness		1.661	1.225
	Kurtosis		.	.
kelompok normal	Mean		60.2667	5.71542
	95% Confidence Interval	Lower Bound	35.6752	
	for Mean	Upper Bound	84.8582	
	5% Trimmed Mean		.	
	Median		65.2000	
	Variance		97.998	
	Std. Deviation		9.89941	
	Minimum		48.87	
	Maximum		66.73	
	Range		17.86	

Interquartile Range	.	.
Skewness	-1.686	1.225
Kurtosis	.	.

Tests of Normality

kelompok		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	Df	Sig.	Statistic	df	Sig.
hasil	kelompok ekstrak	.360	3	.	.808	3	.134
	kelompok basis	.271	3	.	.947	3	.557
	formula 1	.277	3	.	.941	3	.530
	formula 2	.289	3	.	.927	3	.479
	formula 3	.179	3	.	.999	3	.947
	kontrol positif	.297	3	.	.917	3	.441
	kontrol negatif	.351	3	.	.828	3	.183
	kelompok normal	.358	3	.	.814	3	.148

a. Lilliefors Significance Correction

Descriptives

Hasil								
					95% Confidence Interval for Mean			
	N	Mean	Std. Deviation	Std. Error	Lower Bound	Upper Bound	Minimum	Maximum
kelompok ekstrak	3	36.7067	3.84310	2.21882	27.1599	46.2535	32.28	39.19
kelompok basis	3	34.3867	5.22001	3.01378	21.4194	47.3539	30.00	40.16
formula 1	3	52.3667	7.68403	4.43638	33.2785	71.4549	46.00	60.90
formula 2	3	52.4767	2.98009	1.72056	45.0737	59.8796	50.07	55.81
formula 3	3	58.9417	11.03670	6.37204	31.5250	86.3584	48.08	70.15
kontrol positif	3	64.7567	4.21405	2.43298	54.2884	75.2250	60.02	68.09

kontrol negatif	3	28.8400	9.33545	5.38983	5.6494	52.0306	22.58	39.57
kelompok normal	3	60.2667	9.89941	5.71542	35.6752	84.8582	48.87	66.73
Total	24	48.5927	14.25093	2.90896	42.5751	54.6103	22.58	70.15

Test of Homogeneity of Variances

Hasil

Levene Statistic	df1	df2	Sig.
1.458	7	16	.251

ANOVA

Hasil

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	3801.728	7	543.104	9.996	.000
Within Groups	869.318	16	54.332		
Total	4671.047	23			

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
kelompok ekstrak	kelompok basis	2.32000	6.01844	.705	-10.4385	15.0785
	formula 1	-15.66000*	6.01844	.019	-28.4185	-2.9015
	formula 2	-15.77000*	6.01844	.019	-28.5285	-3.0115
	formula 3	-22.23500*	6.01844	.002	-34.9935	-9.4765
	kontrol positif	-28.05000*	6.01844	.000	-40.8085	-15.2915
	kontrol negatif	7.86667	6.01844	.210	-4.8919	20.6252
	kelompok normal	-23.56000*	6.01844	.001	-36.3185	-10.8015
kelompok basis	kelompok ekstrak	-2.32000	6.01844	.705	-15.0785	10.4385

	formula 1	-17.98000 ⁺	6.01844	.009	-30.7385	-5.2215
	formula 2	-18.09000 ⁺	6.01844	.008	-30.8485	-5.3315
	formula 3	-24.55500 ⁺	6.01844	.001	-37.3135	-11.7965
	kontrol positif	-30.37000 ⁺	6.01844	.000	-43.1285	-17.6115
	kontrol negatif	5.54667	6.01844	.370	-7.2119	18.3052
	kelompok normal	-25.88000 ⁺	6.01844	.001	-38.6385	-13.1215
formula 1	kelompok ekstrak	15.66000 ⁺	6.01844	.019	2.9015	28.4185
	kelompok basis	17.98000 ⁺	6.01844	.009	5.2215	30.7385
	formula 2	-.11000	6.01844	.986	-12.8685	12.6485
	formula 3	-6.57500	6.01844	.291	-19.3335	6.1835
	kontrol positif	-12.39000	6.01844	.056	-25.1485	.3685
	kontrol negatif	23.52667 ⁺	6.01844	.001	10.7681	36.2852
	kelompok normal	-7.90000	6.01844	.208	-20.6585	4.8585
formula 2	kelompok ekstrak	15.77000 ⁺	6.01844	.019	3.0115	28.5285
	kelompok basis	18.09000 ⁺	6.01844	.008	5.3315	30.8485
	formula 1	.11000	6.01844	.986	-12.6485	12.8685
	formula 3	-6.46500	6.01844	.299	-19.2235	6.2935
	kontrol positif	-12.28000	6.01844	.058	-25.0385	.4785
	kontrol negatif	23.63667 ⁺	6.01844	.001	10.8781	36.3952
	kelompok normal	-7.79000	6.01844	.214	-20.5485	4.9685
formula 3	kelompok ekstrak	22.23500 ⁺	6.01844	.002	9.4765	34.9935
	kelompok basis	24.55500 ⁺	6.01844	.001	11.7965	37.3135
	formula 1	6.57500	6.01844	.291	-6.1835	19.3335
	formula 2	6.46500	6.01844	.299	-6.2935	19.2235
	kontrol positif	-5.81500	6.01844	.348	-18.5735	6.9435
	kontrol negatif	30.10167 ⁺	6.01844	.000	17.3431	42.8602
	kelompok normal	-1.32500	6.01844	.829	-14.0835	11.4335
kontrol positif	kelompok ekstrak	28.05000 ⁺	6.01844	.000	15.2915	40.8085
	kelompok basis	30.37000 ⁺	6.01844	.000	17.6115	43.1285
	formula 1	12.39000	6.01844	.056	-.3685	25.1485
	formula 2	12.28000	6.01844	.058	-.4785	25.0385
	formula 3	5.81500	6.01844	.348	-6.9435	18.5735

	kontrol negatif	35.91667*	6.01844	.000	23.1581	48.6752
	kelompok normal	4.49000	6.01844	.466	-8.2685	17.2485
kontrol negatif	kelompok ekstrak	-7.86667	6.01844	.210	-20.6252	4.8919
	kelompok basis	-5.54667	6.01844	.370	-18.3052	7.2119
	formula 1	-23.52667*	6.01844	.001	-36.2852	-10.7681
	formula 2	-23.63667*	6.01844	.001	-36.3952	-10.8781
	formula 3	-30.10167*	6.01844	.000	-42.8602	-17.3431
	kontrol positif	-35.91667*	6.01844	.000	-48.6752	-23.1581
	kelompok normal	-31.42667*	6.01844	.000	-44.1852	-18.6681
kelompok normal	kelompok ekstrak	23.56000*	6.01844	.001	10.8015	36.3185
	kelompok basis	25.88000*	6.01844	.001	13.1215	38.6385
	formula 1	7.90000	6.01844	.208	-4.8585	20.6585
	formula 2	7.79000	6.01844	.214	-4.9685	20.5485
	formula 3	1.32500	6.01844	.829	-11.4335	14.0835
	kontrol positif	-4.49000	6.01844	.466	-17.2485	8.2685
	kontrol negatif	31.42667*	6.01844	.000	18.6681	44.1852

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

d. Kepadatan Kolagen

Case Processing Summary

		Cases					
		Valid		Missing		Total	
		N	Percent	N	Percent	N	Percent
hasil	kelompok ekstrak	3	100.0%	0	.0%	3	100.0%
	kelompok basis	3	100.0%	0	.0%	3	100.0%
	formula 1	3	100.0%	0	.0%	3	100.0%
	formula 2	3	100.0%	0	.0%	3	100.0%
	formula 3	3	100.0%	0	.0%	3	100.0%

kontrol positif	3	100.0%	0	.0%	3	100.0%
kontrol negatif	3	100.0%	0	.0%	3	100.0%
kelompok normal	3	100.0%	0	.0%	3	100.0%

Descriptives

Kelompok		Statistic	Std. Error
hasil	kelompok ekstrak	Mean	32.1407
		95% Confidence Interval Lower Bound for Mean	25.7993
		Upper Bound	38.4820
		5% Trimmed Mean	.
		Median	32.0170
		Variance	6.517
		Std. Deviation	2.55275
		Minimum	29.65
		Maximum	34.75
		Range	5.10
		Interquartile Range	.
		Skewness	.217
		Kurtosis	.
			1.225
	kelompok basis	Mean	29.7133
		95% Confidence Interval Lower Bound for Mean	22.7444
		Upper Bound	36.6822
		5% Trimmed Mean	.
		Median	30.9800
		Variance	7.870
		Std. Deviation	2.80536
		Minimum	26.50
		Maximum	31.66
		Range	5.16

	Interquartile Range	.	
	Skewness	-1.618	1.225
	Kurtosis	.	.
formula 1	Mean	33.3197	.52877
	95% Confidence Interval Lower Bound for Mean	31.0446	
	Upper Bound	35.5948	
	5% Trimmed Mean	.	
	Median	33.2110	
	Variance	.839	
	Std. Deviation	.91585	
	Minimum	32.46	
	Maximum	34.28	
	Range	1.82	
	Interquartile Range	.	
	Skewness	.526	1.225
	Kurtosis	.	.
formula 2	Mean	35.5357	.37149
	95% Confidence Interval Lower Bound for Mean	33.9373	
	Upper Bound	37.1341	
	5% Trimmed Mean	.	
	Median	35.4230	
	Variance	.414	
	Std. Deviation	.64344	
	Minimum	34.96	
	Maximum	36.23	
	Range	1.27	
	Interquartile Range	.	
	Skewness	.764	1.225
	Kurtosis	.	.
formula 3	Mean	40.5097	1.43958

	95% Confidence Interval Lower Bound for Mean	34.3157	1.225
	Upper Bound	46.7037	
	5% Trimmed Mean	.	
	Median	40.8590	
	Variance	6.217	
	Std. Deviation	2.49342	
	Minimum	37.86	
	Maximum	42.81	
	Range	4.95	
	Interquartile Range	.	
	Skewness	-.618	
	Kurtosis	.	
kontrol positif	Mean	47.2857	1.77178
	95% Confidence Interval Lower Bound for Mean	39.6623	
	Upper Bound	54.9090	
	5% Trimmed Mean	.	
	Median	47.1090	
	Variance	9.418	
	Std. Deviation	3.06882	
	Minimum	44.31	
	Maximum	50.44	
	Range	6.13	
	Interquartile Range	.	
	Skewness	.258	
	Kurtosis	.	
kontrol negatif	Mean	24.9000	4.09512
	95% Confidence Interval Lower Bound for Mean	7.2801	
	Upper Bound	42.5199	
	5% Trimmed Mean	.	
	Median	25.8000	

	Variance	50.310	
	Std. Deviation	7.09295	
	Minimum	17.40	
	Maximum	31.50	
	Range	14.10	
	Interquartile Range	.	
	Skewness	-.562	1.225
	Kurtosis	.	.
kelompok normal	Mean	39.3433	2.32515
	95% Confidence Interval Lower Bound for Mean	29.3390	
	Upper Bound	49.3477	
	5% Trimmed Mean	.	
	Median	40.2500	
	Variance	16.219	
	Std. Deviation	4.02729	
	Minimum	34.94	
	Maximum	42.84	
	Range	7.90	
	Interquartile Range	.	
	Skewness	-.962	1.225
	Kurtosis	.	.

Tests of Normality

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
hasil	kelompok ekstrak	.186	3	.	.998	3	.920
	kelompok basis	.341	3	.	.847	3	.233
	formula 1	.214	3	.	.989	3	.803
	formula 2	.236	3	.	.977	3	.709
	formula 3	.222	3	.	.985	3	.768

kontrol positif	.190	3	.	.998	3	.905
kontrol negatif	.217	3	.	.988	3	.790
kelompok normal	.256	3	.	.962	3	.625

a. Lilliefors Significance Correction

Descriptives

Hasil								
					95% Confidence Interval for Mean			
			Std.					
	N	Mean	Deviation	Std. Error	Lower Bound	Upper Bound	Minimum	Maximum
kelompok ekstrak	3	32.1407	2.55275	1.47383	25.7993	38.4820	29.65	34.75
kelompok basis	3	29.7133	2.80536	1.61968	22.7444	36.6822	26.50	31.66
formula 1	3	33.3197	.91585	.52877	31.0446	35.5948	32.46	34.28
formula 2	3	35.5357	.64344	.37149	33.9373	37.1341	34.96	36.23
formula 3	3	40.5097	2.49342	1.43958	34.3157	46.7037	37.86	42.81
kontrol positif	3	47.2857	3.06882	1.77178	39.6623	54.9090	44.31	50.44
kontrol negatif	3	24.9000	7.09295	4.09512	7.2801	42.5199	17.40	31.50
kelompok normal	3	39.3433	4.02729	2.32515	29.3390	49.3477	34.94	42.84
Total	24	35.3435	7.27409	1.48482	32.2719	38.4151	17.40	50.44

Test of Homogeneity of Variances

Hasil

Levene Statistic	df1	df2	Sig.
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Test of Homogeneity of Variances

Hasil

Levene Statistic	df1	df2	Sig.
2.049	7	16	.111

ANOVA

Hasil					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1021.379	7	145.911	11.935	.000
Within Groups	195.606	16	12.225		
Total	1216.986	23			

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
kelompok ekstrak	kelompok basis	2.42733	2.85487	.408	-3.6247	8.4794
	formula 1	-1.17900	2.85487	.685	-7.2310	4.8730
	formula 2	-3.39500	2.85487	.252	-9.4470	2.6570
	formula 3	-8.36900*	2.85487	.010	-14.4210	-2.3170
	kontrol positif	-15.14500*	2.85487	.000	-21.1970	-9.0930
	kontrol negatif	7.24067*	2.85487	.022	1.1886	13.2927
	kelompok normal	-7.20267*	2.85487	.023	-13.2547	-1.1506
kelompok basis	kelompok ekstrak	-2.42733	2.85487	.408	-8.4794	3.6247
	formula 1	-3.60633	2.85487	.225	-9.6584	2.4457
	formula 2	-5.82233	2.85487	.058	-11.8744	.2297
	formula 3	-10.79633*	2.85487	.002	-16.8484	-4.7443
	kontrol positif	-17.57233*	2.85487	.000	-23.6244	-11.5203
	kontrol negatif	4.81333	2.85487	.111	-1.2387	10.8654

	kelompok normal	-9.63000*	2.85487	.004	-15.6820	-3.5780
formula 1	kelompok ekstrak	1.17900	2.85487	.685	-4.8730	7.2310
	kelompok basis	3.60633	2.85487	.225	-2.4457	9.6584
	formula 2	-2.21600	2.85487	.449	-8.2680	3.8360
	formula 3	-7.19000*	2.85487	.023	-13.2420	-1.1380
	kontrol positif	-13.96600*	2.85487	.000	-20.0180	-7.9140
	kontrol negatif	8.41967*	2.85487	.009	2.3676	14.4717
	kelompok normal	-6.02367	2.85487	.051	-12.0757	.0284
formula 2	kelompok ekstrak	3.39500	2.85487	.252	-2.6570	9.4470
	kelompok basis	5.82233	2.85487	.058	-.2297	11.8744
	formula 1	2.21600	2.85487	.449	-3.8360	8.2680
	formula 3	-4.97400	2.85487	.101	-11.0260	1.0780
	kontrol positif	-11.75000*	2.85487	.001	-17.8020	-5.6980
	kontrol negatif	10.63567*	2.85487	.002	4.5836	16.6877
	kelompok normal	-3.80767	2.85487	.201	-9.8597	2.2444
formula 3	kelompok ekstrak	8.36900*	2.85487	.010	2.3170	14.4210
	kelompok basis	10.79633*	2.85487	.002	4.7443	16.8484
	formula 1	7.19000*	2.85487	.023	1.1380	13.2420
	formula 2	4.97400	2.85487	.101	-1.0780	11.0260
	kontrol positif	-6.77600*	2.85487	.030	-12.8280	-.7240
	kontrol negatif	15.60967*	2.85487	.000	9.5576	21.6617
	kelompok normal	1.16633	2.85487	.688	-4.8857	7.2184
kontrol positif	kelompok ekstrak	15.14500*	2.85487	.000	9.0930	21.1970
	kelompok basis	17.57233*	2.85487	.000	11.5203	23.6244
	formula 1	13.96600*	2.85487	.000	7.9140	20.0180
	formula 2	11.75000*	2.85487	.001	5.6980	17.8020
	formula 3	6.77600*	2.85487	.030	.7240	12.8280
	kontrol negatif	22.38567*	2.85487	.000	16.3336	28.4377
	kelompok normal	7.94233*	2.85487	.013	1.8903	13.9944
kontrol negatif	kelompok ekstrak	-7.24067*	2.85487	.022	-13.2927	-1.1886
	kelompok basis	-4.81333	2.85487	.111	-10.8654	1.2387

	formula 1	-8.41967 [*]	2.85487	.009	-14.4717	-2.3676
	formula 2	-10.63567 [*]	2.85487	.002	-16.6877	-4.5836
	formula 3	-15.60967 [*]	2.85487	.000	-21.6617	-9.5576
	kontrol positif	-22.38567 [*]	2.85487	.000	-28.4377	-16.3336
	kelompok normal	-14.44333 [*]	2.85487	.000	-20.4954	-8.3913
kelompok normal	kelompok ekstrak	7.20267 [*]	2.85487	.023	1.1506	13.2547
	kelompok basis	9.63000 [*]	2.85487	.004	3.5780	15.6820
	formula 1	6.02367	2.85487	.051	-.0284	12.0757
	formula 2	3.80767	2.85487	.201	-2.2444	9.8597
	formula 3	-1.16633	2.85487	.688	-7.2184	4.8857
	kontrol positif	-7.94233 [*]	2.85487	.013	-13.9944	-1.8903
	kontrol negatif	14.44333 [*]	2.85487	.000	8.3913	20.4954

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

Lampiran 11. Dokumentasi Penelitian

Keterangan	Foto	Keterangan	Foto
1). Jantung pisang kepok		2). Simplisia jantung pisang kepok	
3). Maserasi		4). Penyaringan filtrat	
5). Pemekatan ekstrak		6). Ekstrak kental	
7). Uji Dpph		8). Uji kualitatif flavonoid	

9). Pembuatan
sediaan krim



10). Aklimasi
hewan coba



11). Pencukuran
bulu mencit



12). Pengolesan
sediaan pada
punggung
mencit



13). Pemaparan
menggunakan
sinar UV



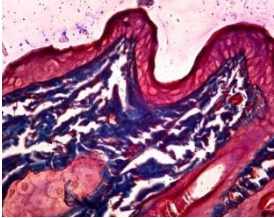
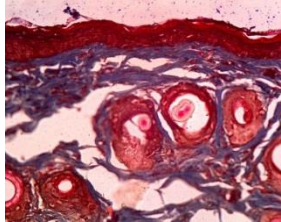
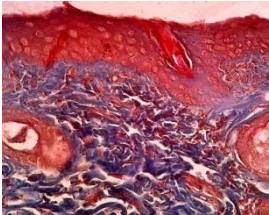
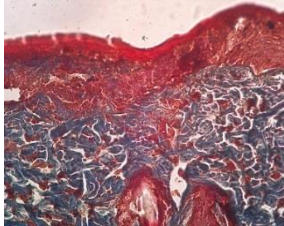
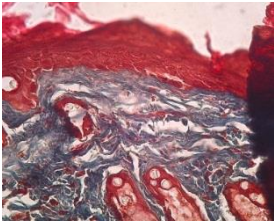
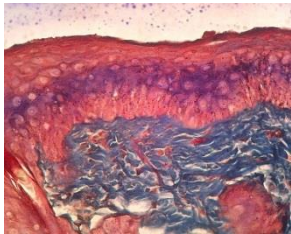
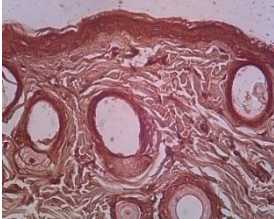
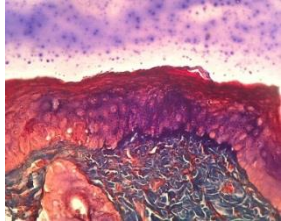
14). pengambilan
sampling
kulit
punggung
mencit



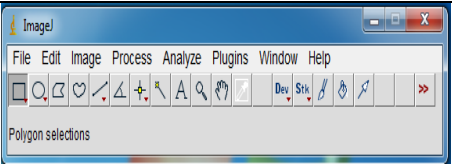
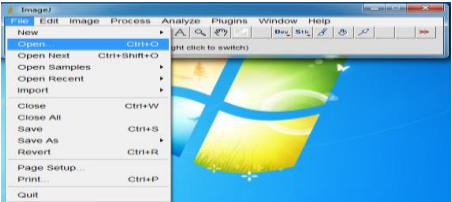
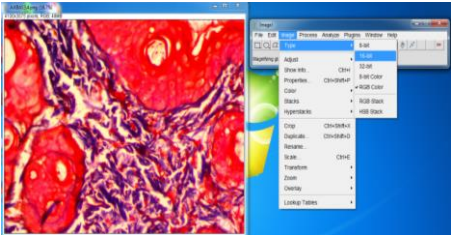
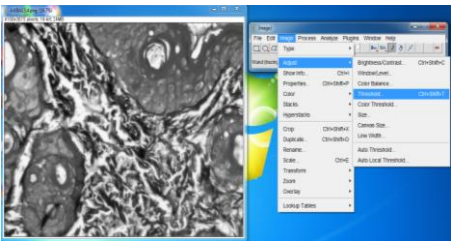
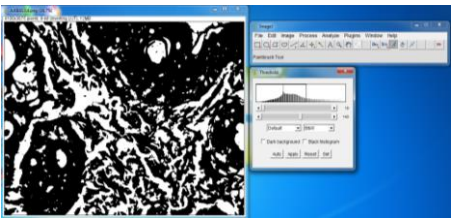
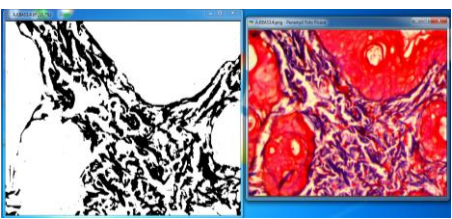
15). Penempelan
sampel



Lampiran 12. Foto Preparat

Foto Preparat	Keterangan	Foto Preparat	Keterangan
	Kelompok Ekstrak		Kelompok Basis
	Kelompok Formula 1		Kelompok Formula 2
	Kelompok Formula 3		Kontrol Positif
	Kontrol Negatif		Kelompok Normal

Lampiran 13. Cara Pembacaan Kolagen menggunakan Software Image J

No	Keterangan	Foto
1.	Buka aplikasi software image J.	
2.	Pilih file kemudian open (Ctrl+O). Pilih file yang akan di baca.	
3.	Pilih image kemudian pilih Type dan pilih 16 bit.	
4.	Pilih image kemudian pilih Adjust dan pilih Threshold (Ctrl+Shift+T).	
5.	Setelah itu akan muncul hasil Threshold dan pilih Apply.	
6.	Setelah di Threshold hapus bagian selain berwarna biru (warna biru menandakan adanya kolagen) dengan membandingkan antara foto asli dengan hasil Threshold.	
7.	Setelah di hapus pilih Analyze selanjutnya pilih Measure (Ctrl+M).	