L A M P I R A N

Lampiran 1. Hasil Determinasi Tanaman

PEMERINTAH PROVINSI JAWA TIMUR
DINAS KESEHATAN
UPT LABORATORIUM HERBAL
MATERIA MEDICA BATU
Jl. Lahor 87 Kota Batu
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Nomor : 000.9.3/ 3187/ 102.20/ 2023
Sifat : Biasa
Perihal : **Determinasi Tanaman Patah Tulang**

Memenuhi permohonan saudara :

Nama : LETICIA FATIMA SENANES
NIM/NIP/NIK : 26206148A
FAKULTAS : FARMASI, UNIVERSITAS SETIA BUDI

1. Perihal determinasi tanaman patah tulang
   - Kingdom : Plantae (Tumbuhan)
   - Divisi : Magnoliophyta (Tumbuhan berbunga)
   - Kelas : Magnoliopsida (berkeping dua / dikotil)
   - Sub Kelas : Rosidae
   - Ordo : Euphorbiales
   - Famili : Euphorbiaceae
   - Genus : Euphorbia
   - Spesies : *Euphorbia tirucalli* L.
   - Nama Daerah : Susuru (Sunda), kayu urip, pacing tawa, tikel balung (Jawa),; Kayu jaliso, kayu leso, kayu langtolangan, kayu tabar (Madura); Patah tulang (Sumatera).
   - Kunci Determinasi : 1b-2b-3b-4b-6a-1b-34b-37a:Euphorbiaceae-1a-2a:Euphorbia-1b-2a:*E.tirucalli*.
2. Morfologi : Perdu, tumbuh tegak, tinggi 2-6 m, pangkal berkayu, banyak bercabang, bergetah seperti susu yang beracun. Tangkainya setelah tumbuh sekitar 1 jengkal akan segera bercabang dua yang letaknya melintang, demikian seterusnya sehingga tampak seperti percabangan yang terpatah-patah. Rantingnya bulat silindris berbentuk pensil, beralur halus membujur, warnanya hijau. Daunnya jarang, terdapat pada ujung ranting yang masih muda, kecil-kecil, bentuknya lanset, panjang 7-25 mm, cepat rontok. Bunga terdapat diujung batang, berupa bunga majemuk yang tersusun seperti mangkok, warnanya kuning kehijauan. Buahnya bila masak akan pecah dan melemparkan biji-bijinya.
3. Bagian yang digunakan : Ranting.
4. Penggunaan : Penelitian.
5. Daftar Pustaka
   - Van Steenis, CGGJ. 2008. *FLORA: untuk Sekolah di Indonesia*. Pradnya Paramita, Jakarta.

Demikian surat keterangan determinasi ini kami buat untuk dipergunakan sebagaimana mestinya.

Batu, 23 November 2023

KEPALA UPT LABORATORIUM HERBAL
MATERIA MEDICA BATU

dr. RATNA YULIANTI, M.M.
Pembina Tk. I
NIP. 19710711 200012 2 002

Lampiran 2. Surat *Ethical Clereance*

HEALTH RESEARCH ETHICS COMITTE
KOMISI ETIK PENELITIAN KESEHATAN

Dr. Moewardi General Hospital
RSUD Dr. Moewardi

ETHICAL CLEARANCE
KELAIKAN ETIK

Nomor : 1.767 / IX / HREC / 2023

The Health Research Ethics Committee Dr. Moewardi
Komisi Etik Penelitian Kesehatan RSUD Dr. Moewardi

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

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

FORMULASI DAN UJI AKTIVITAS SEDIAAN GEL EKSTRAK RANTING PATAH TULANG (Euphorbia tirucalli) SEBAGAI PENYEMBUH LUKA BAKAR PADA PUNGGUNG KELINCI NEW ZEALAND

Principal investigator : Leticia Fatima Senanes
Peneliti Utama 26206148A

Location of research : Laboratorium Universitas Setia Budi
Lokasi Tempat Penelitian

Is ethically approved
Dinyatakan layak etik

Issued on : 02 Oktober 2023
Chairman
Ketua

KOMISI ETIK PENELITIAN KESEHATAN RSUD. Dr. MOEWARDI

Dr. Wahyu Dwi Atmoko., Sp.F
19770224 201001 1 005

Lampiran 3. Surat Izin Hewan

"ABIMANYU FARM"
√ Mencit putih jantan √ Tikus Wistar √ Swis Webster √ Cacing
√ Mencit Balb/C √ Kelinci New Zaeland
Ngampon RT 04 / RW 04. Mojosongo Kec. Jebres Surakarta. Phone 0897-8729-933/ Lab USB Ska

Yang bertanda tangan di bawah ini:
Nama : Sigit Pramono

Selaku pengelola Abimanyu Farm, menerangkan bahwa hewan uji yang digunakan untuk penelitian, oleh:

Nama	: Leticia Fatima Senanes
NIM	: 26206148A
Institusi	: Universitas Setia Budi

Merupakan hewan uji dengan spesifikasi sebagai berikut:

Jenis hewan	: Kelinci New Zealand
Umur	: 2-3 bulan
Jumlah	: 5 ekor
Keterangan	: Sehat
Asal-usul	: Unit Pengembangan Hewan Percobaan Boyolali

Yang pengembangan dan pengelolaannya disesuaikan standar baku penelitian. Demikian surat keterangan ini dibuat untuk digunakan sebagaimana mestinya.

Surakarta, 16 Desember 2023
Hormat kami

Sigit Pramono
"ABIMANYU FARM"

Lampiran 4. Pengumpulan Sampel Ranting Patah Tulang

Ranting Patah Tulang

Pencucian Sampel

Pengeringan Sampel

Serbuk Ranting Patah Tulang

Lampiran 5. Hasil susut Pengeringan dan Kadar air Serbuk






Lampiran 6. Pembuatan Ekstrak Ranting Patah Tulang


Penimbangan Serbuk

Maserasi


Penyaringan



Lampiran 7. Kadar Air Ekstrak

Wadah kosong R1

Wadah kosong R2

Wadah kosong R3

Wadah + Ekstrak R1

Wadah + Ekstrak R2

Wadah + Ekstrak R3

Bobot akhir replikasi 1

Bobot akhir replikasi 2

Bobot akhir replikasi 3

Lampiran 8. Hasil Uji Fitokimia Ekstrak

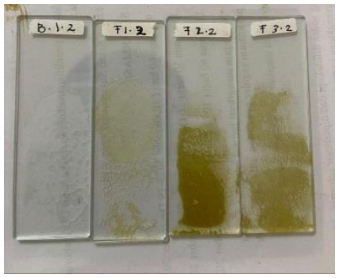
Uji Flavonoid

Uji Saponin

Uji Tannin

Lampiran 9. Hasil Pembuatan Sediaan Gel

Lampiran 10. Pengujian Mutu Fisik Sediaan Gel



Homogenitas

pH

Daya Sebar

Viskositas

Daya Lekat

Lampiran 11. Pengujian Stabilitas

Sebelum Cycling Test

Sesudah Cycling Test

Lampiran 12. Perlakuan Terhadap Hewan Uji

Pencukuran Bulu Kelinci

Pembuatan Luka

Luka Hari 1

Luka Hari 7

Luka Hari 14

Luka Hari 21

Lampiran 13. Hasil Analisis SPSS

- **Uji Normalitas**

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
pH hari ke-1	Basis	.175	3	.	1.000	3	1.000
	Formula 1	.175	3	.	1.000	3	1.000
	Formula 2	.253	3	.	.964	3	.637
	Formula 3	.253	3	.	.964	3	.637
pH hari ke-7	Basis	.314	3	.	.893	3	.363
	Formula 1	.175	3	.	1.000	3	1.000
	Formula 2	.314	3	.	.893	3	.363
	Formula 3	.175	3	.	1.000	3	1.000
pH hari ke-14	Basis	.276	3	.	.942	3	.537
	Formula 1	.175	3	.	1.000	3	1.000
	Formula 2	.175	3	.	1.000	3	1.000
	Formula 3	.328	3	.	.871	3	.298
pH hari ke-21	Basis	.314	3	.	.893	3	.363
	Formula 1	.175	3	.	1.000	3	1.000
	Formula 2	.253	3	.	.964	3	.637
	Formula 3	.253	3	.	.964	3	.637
Daya lekat hari ke-1	Basis	.219	3	.	.987	3	.780
	Formula 1	.241	3	.	.974	3	.688
	Formula 2	.223	3	.	.985	3	.765
	Formula 3	.328	3	.	.871	3	.298
Daya lekat hari ke-7	Basis	.337	3	.	.855	3	.253
	Formula 1	.262	3	.	.957	3	.600
	Formula 2	.217	3	.	.988	3	.792
	Formula 3	.253	3	.	.964	3	.637
Daya lekat hari ke-14	Basis	.193	3	.	.997	3	.890
	Formula 1	.219	3	.	.987	3	.780
	Formula 2	.343	3	.	.842	3	.220
	Formula 3	.304	3	.	.907	3	.407
Daya lekat hari ke-21	Basis	.265	3	.	.953	3	.583
	Formula 1	.189	3	.	.998	3	.908
	Formula 2	.198	3	.	.995	3	.870
	Formula 3	.178	3	.	.999	3	.952
Viskositas hari ke-1	Basis	.270	3	.	.948	3	.562
	Formula 1	.291	3	.	.925	3	.471
	Formula 2	.225	3	.	.984	3	.756
	Formula 3	.232	3	.	.980	3	.726
Viskositas hari ke-7	Basis	.262	3	.	.957	3	.600
	Formula 1	.295	3	.	.919	3	.451
	Formula 2	.251	3	.	.966	3	.644
	Formula 3	.348	3	.	.833	3	.195
Viskositas hari ke-14	Basis	.286	3	.	.930	3	.490
	Formula 1	.258	3	.	.960	3	.615

	Formula 2	.191	3	.	.997	3	.898
	Formula 3	.347	3	.	.835	3	.202
Viskositas hari ke-21	Basis	.233	3	.	.979	3	.723
	Formula 1	.177	3	.	1.000	3	.961
	Formula 2	.234	3	.	.979	3	.720
	Formula 3	.361	3	.	.806	3	.129
Daya sebar hari ke-1	Basis	.279	3	.	.939	3	.524
	Formula 1	.362	3	.	.805	3	.126
	Formula 2	.261	3	.	.958	3	.603
	Formula 3	.385	3	.	.750	3	.000
Daya sebar hari ke-7	Basis	.319	3	.	.885	3	.339
	Formula 1	.215	3	.	.989	3	.797
	Formula 2	.241	3	.	.974	3	.690
	Formula 3	.322	3	.	.880	3	.323
Daya sebar hari ke-14	Basis	.245	3	.	.971	3	.674
	Formula 1	.197	3	.	.996	3	.872
	Formula 2	.334	3	.	.860	3	.267
	Formula 3	.278	3	.	.940	3	.529
Daya sebar hari ke-21	Basis	.226	3	.	.983	3	.750
	Formula 1	.302	3	.	.910	3	.418
	Formula 2	.175	3	.	1.000	3	.994
	Formula 3	.328	3	.	.871	3	.298
pH sebelum stabilitas	Basis	.354	3	.	.821	3	.165
	Formula 1	.378	3	.	.767	3	.037
	Formula 2	.371	3	.	.784	3	.077
	Formula 3	.364	3	.	.801	3	.116
pH sesudah stabilitas	Basis	.385	3	.	.750	3	.000
	Formula 1	.308	3	.	.901	3	.389
	Formula 2	.375	3	.	.773	3	.052
	Formula 3	.185	3	.	.998	3	.923
Viskositas sebelum stabilitas	Basis	.235	3	.	.978	3	.713
	Formula 1	.177	3	.	1.000	3	.961
	Formula 2	.234	3	.	.979	3	.720
	Formula 3	.361	3	.	.806	3	.129
Viskositas setelah stabilitas	Basis	.286	3	.	.931	3	.493
	Formula 1	.298	3	.	.915	3	.435
	Formula 2	.279	3	.	.939	3	.525
	Formula 3	.323	3	.	.879	3	.322

a. Lilliefors Significance Correction

- **Uji Homogenitas**

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
pH hari ke-1	Based on Mean	.874	3	8	.494
	Based on Median	.750	3	8	.552
	Based on Median and with adjusted df	.750	3	5.120	.567
	Based on trimmed mean	.868	3	8	.497
pH hari ke-7	Based on Mean	1.333	3	8	.330
	Based on Median	.258	3	8	.854
	Based on Median and with adjusted df	.258	3	5.414	.853
	Based on trimmed mean	1.217	3	8	.365
pH hari ke-14	Based on Mean	3.223	3	8	.082
	Based on Median	.514	3	8	.684
	Based on Median and with adjusted df	.514	3	3.308	.699
	Based on trimmed mean	2.884	3	8	.103
pH hari ke-21	Based on Mean	1.634	3	8	.257
	Based on Median	.317	3	8	.813
	Based on Median and with adjusted df	.317	3	4.255	.814
	Based on trimmed mean	1.487	3	8	.290
Daya lekat hari ke-1	Based on Mean	1.735	3	8	.237
	Based on Median	.597	3	8	.635
	Based on Median and with adjusted df	.597	3	5.905	.640
	Based on trimmed mean	1.633	3	8	.257
Daya lekat hari ke-7	Based on Mean	1.912	3	8	.206
	Based on Median	.891	3	8	.486
	Based on Median and with adjusted df	.891	3	5.081	.505
	Based on trimmed mean	1.832	3	8	.219
Daya lekat hari ke-14	Based on Mean	.833	3	8	.513
	Based on Median	.165	3	8	.917
	Based on Median and with adjusted df	.165	3	5.028	.916
	Based on trimmed mean	.758	3	8	.548
Daya lekat hari ke-21	Based on Mean	.196	3	8	.896
	Based on Median	.121	3	8	.945
	Based on Median and with adjusted df	.121	3	7.186	.945
	Based on trimmed mean	.190	3	8	.900
Viskositas hari ke-1	Based on Mean	3.773	3	8	.059
	Based on Median	1.207	3	8	.368
	Based on Median and with adjusted df	1.207	3	3.702	.421
	Based on trimmed mean	3.532	3	8	.068
Viskositas hari ke-7	Based on Mean	2.748	3	8	.112
	Based on Median	.717	3	8	.569
	Based on Median and with adjusted df	.717	3	5.011	.583
	Based on trimmed mean	2.528	3	8	.131
Viskositas hari ke-14	Based on Mean	1.572	3	8	.270
	Based on Median	.766	3	8	.544
	Based on Median and with adjusted df	.766	3	5.535	.556
	Based on trimmed mean	1.512	3	8	.284
Viskositas	Based on Mean	1.301	3	8	.339

hari ke-21	Based on Median	.886	3	8	.488
	Based on Median and with adjusted df	.886	3	5.842	.501
	Based on trimmed mean	1.278	3	8	.346
Daya sebar hari ke-1	Based on Mean	.675	3	8	.591
	Based on Median	.159	3	8	.921
	Based on Median and with adjusted df	.159	3	7.011	.921
	Based on trimmed mean	.610	3	8	.627
Daya sebar hari ke-7	Based on Mean	1.818	3	8	.222
	Based on Median	.491	3	8	.698
	Based on Median and with adjusted df	.491	3	4.816	.704
	Based on trimmed mean	1.683	3	8	.247
Daya sebar hari ke-14	Based on Mean	2.557	3	8	.128
	Based on Median	.471	3	8	.711
	Based on Median and with adjusted df	.471	3	3.554	.721
	Based on trimmed mean	2.310	3	8	.153
Daya sebar hari ke-21	Based on Mean	.704	3	8	.576
	Based on Median	.386	3	8	.766
	Based on Median and with adjusted df	.386	3	6.660	.767
	Based on trimmed mean	.681	3	8	.588
pH sebelum stabilitas	Based on Mean	1.913	3	8	.206
	Based on Median	.154	3	8	.924
	Based on Median and with adjusted df	.154	3	6.078	.923
	Based on trimmed mean	1.551	3	8	.275
pH sesudah stabilitas	Based on Mean	2.553	3	8	.129
	Based on Median	.238	3	8	.867
	Based on Median and with adjusted df	.238	3	5.118	.866
	Based on trimmed mean	2.149	3	8	.172
Viskositas sebelum stabilitas	Based on Mean	1.290	3	8	.342
	Based on Median	.881	3	8	.491
	Based on Median and with adjusted df	.881	3	5.851	.503
	Based on trimmed mean	1.267	3	8	.349
Viskositas setelah stabilitas	Based on Mean	3.174	3	8	.085
	Based on Median	.714	3	8	.570
	Based on Median and with adjusted df	.714	3	4.738	.586
	Based on trimmed mean	2.883	3	8	.103

- **Uji mutu fisik pH**

Waktu	Formula	Uji pH			Rata - Rata	SD
		R1	R2	R3		
Hari 1	F0	6,56	6,53	6,59	6,56	0,03
	F1	5,88	5,89	5,89	5,88	0,005
	F2	5,21	5,19	5,22	5,20	0,01
	F3	5,1	5,12	5,09	5,10	0,01
Hari 7	F0	6,49	6,45	6,50	6,48	0,02
	F1	5,76	5,75	5,77	5,76	0,01
	F2	5,18	5,13	5,17	5,16	0,02
	F3	5,06	5,08	5,04	5,06	0,02
Hari 14	F0	6,20	6,15	6,22	6,19	0,03
	F1	5,70	5,66	5,68	5,68	0,02
	F2	5,12	5,08	5,10	5,10	0,02
	F3	4,90	5,00	4,88	4,92	0,06
Hari 21	F0	6,08	6,00	6,10	6,06	0,05
	F1	5,62	5,58	5,60	5,60	0,02
	F2	5,06	5,00	5,02	5,02	0,03
	F3	4,78	4,84	4,80	4,80	0,03

- **Uji mutu fisik viskositas**

Waktu	Formula	Uji Visko			Rata - Rata	SD
		R1	R2	R3		
Hari 1	F0	6280	6140	5810	6076,666667	241,3158373
	F1	41680	42560	45150	43130	1803,856979
	F2	34720	33600	36480	34933,33333	1451,803476
	F3	28560	28800	29200	28853,33333	323,3161507
Hari 7	F0	6000	5820	5430	5750	291,3760457
	F1	41420	42200	44620	42746,66667	1668,572244
	F2	34080	33120	35970	34390	1450,068964
	F3	27280	27430	28620	27776,66667	734,1888949
Hari 14	F0	5760	5200	5000	5320	393,9543121
	F1	41110	42108	44200	42472,66667	1576,946839
	F2	33880	32610	35410	33966,66667	1402,010461
	F3	26770	26920	28070	27253,33333	711,2196098
Hari 21	F0	5230	4710	4400	4780	419,4043395
	F1	39760	41810	43720	41763,33333	1980,412415
	F2	33210	32090	35100	33466,66667	1521,326176
	F3	26110	26230	27710	26683,33333	891,1415899

Keterangan
F0 : Kontrol negative
F1 : Konsentrasi ekstrak ranting patah tulang 5%
F2 : Konsentrasi ekstrak ranting patah tulang 10%
F3 : Konsentrasi ekstrak ranting patah tulang 20%
R1 : Replikasi 1
R2 : Replikasi 2
R3 : Replikasi 3

- **Uji mutu fisik daya sebar**

Waktu	Formula	Daya Sebar			Rata – Rata	SD
		R1	R2	R3		
Hari 1	F0	5,05	5,19	5,53	5,26	0,24
	F1	5,17	5,14	4,79	5,03	0,20
	F2	5,29	5,40	5,03	5,24	0,18
	F3	5,61	5,61	5,39	5,54	0,12
Hari 7	F0	5,92	5,99	6,32	6,08	0,21
	F1	5,29	5,19	5,04	5,17	0,12
	F2	5,39	5,52	5,15	5,35	0,18
	F3	5,63	5,62	5,54	5,59	0,05
Hari 14	F0	6,00	6,16	6,24	6,13	0,12
	F1	5,37	5,27	5,15	5,26	0,10
	F2	5,54	5,60	5,22	5,45	0,20
	F3	5,73	5,71	5,64	5,69	0,04
Hari 21	F0	6,27	6,45	6,74	6,49	0,23
	F1	5,55	5,47	5,22	5,41	0,17
	F2	5,60	5,78	5,42	5,60	0,18
	F3	5,90	5,87	5,74	5,84	0,08

- **Uji mutu fisik daya lekat**

Waktu	Formula	Daya Lekat			Rata - Rata	SD
		R1	R2	R3		
Hari 1	**0**	2,15	2,20	2,18	2,17	0,02
	1	4,92	5,02	5,20	5,04	0,14
	2	4,15	3,98	4,26	4,13	0,14
	3	3,81	3,85	4,05	3,90	0,12
Hari 7	**0**	2,10	2,17	2,10	2,12	0,04
	1	4,78	4,90	5,16	4,94	0,19
	2	4,02	3,80	4,17	3,99	0,18
	3	3,70	3,76	3,88	3,78	0,09
Hari 14	**0**	2,10	2,09	1,89	1,99	0,10
	1	4,70	4,82	5,00	4,84	0,15
	2	3,96	3,68	4,00	3,88	0,17
	3	3,58	3,62	3,76	3,65	0,09
Hari 21	**0**	1,88	1,96	1,70	1,84	0,13
	1	4,62	4,73	4,86	4,73	0,12
	2	3,77	3,58	3,92	3,75	0,17
	3	3,40	3,52	3,63	3,51	0,11

Keterangan
F0 : Kontrol negative
F1 : Konsentrasi ekstrak ranting patah tulang 5%
F2 : Konsentrasi ekstrak ranting patah tulang 10%
F3 : Konsentrasi ekstrak ranting patah tulang 20%
R1 : Replikasi 1
R2 : Replikasi 2
R3 : Replikasi 3

Lampiran 14. Hasil Analisis Data Stabilitas Gel

- **Stabilitas Viskositas**

Replikasi	Formula	Viskositas		Rata - Rata	SD
		Sebelum	Sesudah		
I	F0	5240	4820	5030	296,9848481
	F1	39760	29200	34480	7467,047609
	F2	33210	23070	28140	7170,062761
	F3	26110	19460	22785	4702,260095
II	F0	4710	4140	4425	403,0508653
	F1	41810	30050	35930	8315,575747
	F2	32090	22180	27135	7007,428202
	F3	26230	19700	22965	4617,407281
III	F0	4400	4320	4360	56,56854249
	F1	43720	32800	38260	7721,606051
	F2	35100	25360	30230	6887,220049
	F3	27710	20800	24255	4886,107858

Keterangan
F0 : Kontrol negative
F1 : Konsentrasi ekstrak ranting patah tulang 5%
F2 : Konsentrasi ekstrak ranting patah tulang 10%
F3 : Konsentrasi ekstrak ranting patah tulang 20%

- **Stabilitas pH**

Replikasi	Formula	pH		Rata - Rata	SD
		Sebelum	Sesudah		
I	F0	6,08	5,05	5,56	0,72
	F1	5,62	4,70	5,16	0,65
	F2	5,06	4,58	4,82	0,33
	F3	4,78	4,25	4,51	0,37
II	F0	6,00	5,00	5,5	0,70
	F1	5,80	4,55	5,06	0,72
	F2	5,00	4,50	4,75	0,35
	F3	4,84	4,40	4,62	0,31
III	F0	6,10	5,00	5,55	0,77
	F1	5,60	4,68	5,14	0,65
	F2	5,02	4,50	4,76	0,36
	F3	4,80	4,30	4,55	0,35

Keterangan
F0 : Kontrol negative
F1 : Konsentrasi ekstrak ranting patah tulang 5%
F2 : Konsentrasi ekstrak ranting patah tulang 10%
F3 : Konsentrasi ekstrak ranting patah tulang 20%

Lampiran 15. Hasil Analisis Persentase Penyembuhan Luka Bakar

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Perlakuan	Statistic	df	Sig.	Statistic	df	Sig.
PanjangLuka Hari1	K+	.	5	.	.	5	.
	K-	.	5	.	.	5	.
	KN	.	5	.	.	5	.
	Formula 1	.	5	.	.	5	.
	Formula 2	.	5	.	.	5	.
	Formula 3	.	5	.	.	5	.
PanjangLuka Hari3	K+	.231	5	.200*	.881	5	.314
	K-	.348	5	.047	.779	5	.054
	KN	.300	5	.161	.883	5	.325
	Formula 1	.231	5	.200*	.881	5	.314
	Formula 2	.254	5	.200*	.914	5	.492
	Formula 3	.180	5	.200*	.952	5	.754
PanjangLuka Hari5	K+	.221	5	.200*	.902	5	.421
	K-	.241	5	.200*	.821	5	.119
	KN	.237	5	.200*	.961	5	.814
	Formula 1	.237	5	.200*	.961	5	.814
	Formula 2	.237	5	.200*	.961	5	.814
	Formula 3	.237	5	.200*	.961	5	.814
PanjangLuka Hari7	K+	.136	5	.200*	.987	5	.967
	K-	.243	5	.200*	.894	5	.377
	KN	.136	5	.200*	.987	5	.967
	Formula 1	.237	5	.200*	.961	5	.814
	Formula 2	.237	5	.200*	.961	5	.814
	Formula 3	.136	5	.200*	.987	5	.967
PanjangLuka Hari9	K+	.237	5	.200*	.961	5	.814
	K-	.221	5	.200*	.902	5	.421
	KN	.246	5	.200*	.956	5	.777
	Formula 1	.237	5	.200*	.961	5	.814
	Formula 2	.237	5	.200*	.961	5	.814
	Formula 3	.243	5	.200*	.894	5	.377
PanjangLuka Hari11	K+	.237	5	.200*	.961	5	.814
	K-	.141	5	.200*	.979	5	.928
	KN	.246	5	.200*	.956	5	.777
	Formula 1	.180	5	.200*	.952	5	.754
	Formula 2	.136	5	.200*	.987	5	.967
	Formula 3	.229	5	.200*	.867	5	.254
PanjangLuka Hari13	K+	.175	5	.200*	.974	5	.899
	K-	.201	5	.200*	.881	5	.314
	KN	.179	5	.200*	.984	5	.955
	Formula 1	.175	5	.200*	.974	5	.899
	Formula 2	.136	5	.200*	.987	5	.967
	Formula 3	.197	5	.200*	.943	5	.685
PanjangLuka Hari15	K+	.136	5	.200*	.987	5	.967
	K-	.141	5	.200*	.979	5	.928
	KN	.197	5	.200*	.943	5	.685
	Formula 1	.274	5	.200*	.867	5	.254
	Formula 2	.179	5	.200*	.962	5	.823
	Formula 3	.146	5	.200*	.992	5	.985

PanjangLuka Hari17	K+	.	5	.	.	5	.
	K-	.246	5	.200*	.956	5	.777
	KN	.198	5	.200*	.951	5	.742
	Formula 1	.180	5	.200*	.952	5	.754
	Formula 2	.141	5	.200*	.979	5	.928
	Formula 3	.	5	.	.	5	.
PanjangLuka Hari19	K+	.	5	.	.	5	.
	K-	.273	5	.200*	.852	5	.201
	KN	.198	5	.200*	.957	5	.787
	Formula 1	.	5	.	.	5	.
	Formula 2	.	5	.	.	5	.
	Formula 3	.	5	.	.	5	.
PanjangLuka Hari21	K+	.	5	.	.	5	.
	K-	.	5	.	.	5	.
	KN	.	5	.	.	5	.
	Formula 1	.	5	.	.	5	.
	Formula 2	.	5	.	.	5	.
	Formula 3	.	5	.	.	5	.

*. This is a lower bound of the true significance.
a. Lilliefors Significance Correction

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Panjang Luka Hari1	Between Groups	.000	5	.000	.	.
	Within Groups	.000	24	.000		
	Total	.000	29			
Panjang Luka_Hari 3	Between Groups	8.439	5	1.688	90.414	.000
	Within Groups	.448	24	.019		
	Total	8.887	29			
Panjang Luka_Hari 5	Between Groups	13.256	5	2.651	201.357	.000
	Within Groups	.316	24	.013		
	Total	13.572	29			
Panjang Luka_Hari 7	Between Groups	21.807	5	4.361	196.752	.000
	Within Groups	.532	24	.022		
	Total	22.339	29			
Panjang Luka_Hari 9	Between Groups	26.620	5	5.324	290.400	.000
	Within Groups	.440	24	.018		
	Total	27.060	29			
Panjang Luka_Hari 11	Between Groups	25.202	5	5.040	174.809	.000
	Within Groups	.692	24	.029		
	Total	25.894	29			
Panjang Luka_Hari 13	Between Groups	28.759	5	5.752	120.245	.000
	Within Groups	1.148	24	.048		
	Total	29.907	29			
Panjang Luka_Hari 15	Between Groups	815.221	5	163.044	10439.284	.000
	Within Groups	.375	24	.016		
	Total	815.596	29			
Panjang Luka_Hari 17	Between Groups	.508	5	.102	329.686	.000
	Within Groups	.007	24	.000		
	Total	.516	29			
Panjang Luka_Hari	Between Groups	.037	5	.007	34.043	.000
	Within Groups	.005	24	.000		

19	Total	.042	29			
Panjang Luka_Hari 21	Between Groups	.000	5	.000	.	.
	Within Groups	.000	24	.000		
	Total	.000	29			

PanjangLuka_Hari3

Tukey HSD[a]

		Subset for alpha = 0.05				
Perlakuan	N	1	2	3	4	5
K+	5	18.2200				
Formula 3	5		18.6400			
Formula 2	5			18.9400		
Formula 1	5				19.3200	
K-	5				19.4800	
KN	5					19.8000
Sig.		1.000	1.000	1.000	.454	1.000

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 5,000.

PanjangLuka_Hari5

Tukey HSD[a]

		Subset for alpha = 0.05				
Perlakuan	N	1	2	3	4	5
K+	5	17.3200				
Formula 3	5		17.9600			
Formula 2	5			18.3400		
Formula 1	5				18.6600	
K-	5					19.1000
KN	5					19.2600
Sig.		1.000	1.000	1.000	1.000	.272

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 5,000.

PanjangLuka_Hari7

Tukey HSD[a]

		Subset for alpha = 0.05				
Perlakuan	N	1	2	3	4	5
K+	5	16.2000				
Formula 3	5		16.7000			
Formula 2	5			17.3600		
Formula 1	5				17.8600	
K-	5					18.3200
KN	5					18.6000
Sig.		1.000	1.000	1.000	1.000	.064

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 5,000.

PanjangLuka_Hari9

Tukey HSD[a]

Perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
K+	5	15.1600			
Formula 3	5		15.8200		
Formula 2	5			16.8400	
Formula 1	5			16.9400	
K-	5				17.6200
KN	5				17.8200
Sig.		1.000	1.000	.847	.219

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 5,000.

PanjangLuka_Hari11

Tukey HSD[a]

Perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
K+	5	14.1400				
Formula 3	5		14.8400			
Formula 2	5			15.9000		
Formula 1	5			15.9400		
K-	5				16.4200	
KN	5					16.8200
Sig.		1.000	1.000	.999	1.000	1.000

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 5,000.

PanjangLuka_Hari13

Tukey HSD[a]

Perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
K+	5	12.8200			
Formula 3	5		13.4400		
Formula 1	5			14.7800	
Formula 2	5			14.8000	
K-	5			15.1400	
KN	5				15.6200
Sig.		1.000	1.000	.135	1.000

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 5,000.

PanjangLuka_Hari15

Tukey HSD[a]

Perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
K+	5	.4000				
Formula 3	5	.4980	.4980			
Formula 2	5		.7420	.7420		
Formula 1	5			.9280		
K-	5				11.2200	
KN	5					12.1400
Sig.		.813	.051	.212	1.000	1.000

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 5,000.

PanjangLuka_Hari17

Tukey HSD[a]

Perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
K+	5	.0000				
Formula 3	5	.0000				
Formula 2	5		.1220			
Formula 1	5			.1960		
K-	5				.2780	
KN	5					.3440
Sig.		1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 5,000.

PanjangLuka_Hari19

Tukey HSD[a]

Perlakuan	N	Subset for alpha = 0.05		
		1	2	3
K+	5	.0000		
Formula 1	5	.0000		
Formula 2	5	.0000		
Formula 3	5	.0000		
K-	5		.0380	
KN	5			.0940
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.
a. Uses Harmonic Mean Sample Size = 5,000.

- Contoh Perhitungan Persentase Luka Bakar :

  Hari Ke 2 Untuk Kontrol Positif :

$$Pt2 = \frac{2^2 - 1{,}89^2}{2^2}\ x\ 100\% = \frac{4 - 3{,}5721}{4}\ x\ 100\%$$

$$= 10{,}69\%$$

Lampiran 16. Perhitungan Rendemen Simplisia, Serbuk, dan Ekstrak.

- **Rendemen simplisia**

Bobot basah (g)	Bobot kering (g)	Rendemen (% b/b)
1500	1300	86,67

$$Rendemen = \frac{\text{bobot kering (g)}}{\text{bobot basah (g)}}\ x\ 100\%$$

$$Rendemen = \frac{1300\ \text{gram}}{1500\ \text{gram}}\ x\ 100\% = 86{,}67\%$$

- **Rendemen serbuk**

Bobot kering (g)	Bobot serbuk (g)	Rendemen (% b/b)
1300	1100	84,61

$$Rendemen = \frac{\text{bobot serbuk (g)}}{\text{bobot kering (g)}}\ x\ 100\%$$

$$Rendemen = \frac{1100}{1300}\ x\ 100\% = 84{,}61\%$$

- **Rendemen Ekstrak**

Bobot serbuk (g)	Bobot kental (g)	Rendemen (% b/b)
900	199,32	22,14

- Bobot botol kosong : 123,48 gram
- Bobot botol kosong + ekstrak : 322,80 gram
- Bobot ekstrak : 322,80 gr – 124,48 gr = 199,32 gram
- $Rendemen = \frac{\text{bobot ekstrak(g)}}{\text{bobot serbuk (g)}}\ x\ 100\% = \frac{199{,}32\ gram}{900\ gram}\ x\ 100\% =$ 22,14%

Lampiran 17. Perhitungan Formula Sediaan Gel

Formula 1 :

- Ektrak 5% = (5 / 100) x 100 = 5 gram
- CMC Na 3% = (3 / 100) x 100 = 3 gram
- Gliserin 10% = (10 / 100) x100 = 10 gram
- Propilen glikol 15% = (15 / 100) x 100 = 15 gram
- Metil paraben 0,03% = (0,03 / 100) x 100 = 0,03 gram
- Aquadest = 100 - (5 + 3 + 10 + 15 + 0,03) = 66,97 gram

Formula 2 :

- Ektrak 10% = (10 / 100) x 100 = 10 gram
- CMC Na 3% = (3 / 100) x 100 = 3 gram
- Gliserin 10% = (10 / 100) x100 = 10 gram
- Propilen glikol 15% = (15 / 100) x 100 = 15 gram
- Metil paraben 0,03% = (0,03 / 100) x 100 = 0,03 gram
- Aqadest = 100 - (10 + 3 + 10 + 15 + 0,03) = 61,97 gram

Formula 3 :

- Ektrak 20% = (5 / 100) x 100 = 5 gram
- CMC Na 3% = (3 / 100) x 100 = 3 gram
- Gliserin 10% = (10 / 100) x100 = 10 gram
- Propilen glikol 15% = (15 / 100) x 100 = 15 gram
- Metil paraben 0,03% = (0,03 / 100) x 100 = 0,03 gram
- Aquadest = 100 - (20 + 3 + 10 + 15 + 0,03) = 51,97 gram

Basis (Kontrol negative) :

- CMC Na 3% = (3 / 100) x 100 = 3 gram
- Gliserin 10% = (10 / 100) x100 = 10 gram
- Propilen glikol 15% = (15 / 100) x 100 = 15 gram
- Metil paraben 0,03% = (0,03 / 100) x 100 = 0,03 gram
- Aguadest = 100 - (3 + 10 + 15 + 0,03) = 71,97 gram

Lampiran 18. Data Penimbangan Kadar Air Ekstrak

- **Replikasi 1 :**

$$\%\ Kadar\ air = \frac{bobot\ sebelum\ pemanasan - bobot\ setelah\ pemanasan}{bobot\ sebelum\ pemanasan} x\ 100\%$$

$$\%\ Kadar\ air = \frac{10{,}0113 - 9{,}6297}{10{,}0113} x\ 100\% = 3{,}81\%$$

- **Replikasi 2 :**

$$\%\ Kadar\ air = \frac{bobot\ sebelum\ pemanasan - bobot\ setelah\ pemanasan}{bobot\ sebelum\ pemanasan} x\ 100\%$$

$$\%\ Kadar\ air = \frac{10{,}0141 - 9{,}6695}{10{,}0141} x\ 100\% = 3{,}44\%$$

- **Replikasi 3 :**

$$\%\ Kadar\ air = \frac{bobot\ sebelum\ pemanasan - bobot\ setelah\ pemanasan}{bobot\ sebelum\ pemanasan} x\ 100\%$$

$$\%\ Kadar\ air = \frac{10{,}0106 - 9{,}6729}{10{,}0106} x\ 100\% = 3{,}37\%$$

Lampiran 19. Perhitungan Kadar Air Serbuk

- Replikasi 1 :

$$\%\ Kadar\ air = \frac{Volume\ air}{bobot\ serbuk} x100\% = \frac{0{,}8}{20} x100\% = 4\%$$

- Replikasi 2 :

$$\%\ Kadar\ air = \frac{Volume\ air}{Bobot\ serbuk} x100\% = \frac{1{,}1}{20} x100\%$$
$$= 5{,}5\%$$

- Replikasi 3 :

$$\%\ Kadar\ air = \frac{Volume\ air}{Bobot\ serbuk} x100\% = \frac{1{,}5}{20} x100\%$$
$$= 7{,}5\%$$

Lampiran 20. Diameter Penyembuhan Luka Bakar

Hari Ke	K+					K-					KN					Formula 1					Formula 2					Formula 3				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2	1,89	1,86	1,88	1,9	1,89	1,99	1,98	1,98	1,99	1,98	2	2	2	2	2	1,95	1,96	1,94	1,97	1,96	1,93	1,93	1,94	1,93	1,94	1,9	1,91	1,92	1,9	1,91
3	1,83	1,83	1,82	1,82	1,81	1,95	1,95	1,96	1,95	1,95	1,99	1,98	1,98	1,98	1,97	1,93	1,94	1,92	1,94	1,93	1,9	1,91	1,9	1,9	1,92	1,86	1,88	1,89	1,85	1,84
4	1,78	1,8	1,78	1,8	1,79	1,93	1,93	1,93	1,93	1,92	1,96	1,95	1,96	1,95	1,94	1,9	1,92	1,89	1,9	1,91	1,87	1,89	1,87	1,86	1,89	1,82	1,83	1,84	1,83	1,81
5	1,73	1,75	1,72	1,74	1,72	1,9	1,9	1,92	1,92	1,91	1,94	1,93	1,93	1,93	1,92	1,86	1,88	1,85	1,87	1,87	1,83	1,85	1,83	1,82	1,84	1,8	1,81	1,8	1,79	1,78
6	1,67	1,69	1,68	1,67	1,66	1,87	1,88	1,85	1,86	1,85	1,9	1,89	1,9	1,89	1,88	1,82	1,83	1,81	1,84	1,83	1,78	1,8	1,79	1,77	1,79	1,72	1,75	1,73	1,74	1,72
7	1,62	1,64	1,63	1,61	1,6	1,85	1,85	1,83	1,82	1,81	1,88	1,86	1,87	1,85	1,84	1,79	1,8	1,77	1,78	1,79	1,74	1,73	1,75	1,72	1,74	1,68	1,69	1,66	1,67	1,65
8	1,55	1,59	1,58	1,56	1,55	1,8	1,81	1,8	1,8	1,79	1,83	1,82	1,84	1,82	1,81	1,73	1,75	1,73	1,77	1,75	1,68	1,67	1,7	1,68	1,69	1,63	1,65	1,61	1,62	1,61
9	1,51	1,52	1,53	1,52	1,5	1,77	1,75	1,75	1,76	1,78	1,8	1,78	1,79	1,78	1,76	1,7	1,69	1,69	1,68	1,71	1,65	1,63	1,65	1,62	1,64	1,6	1,6	1,57	1,56	1,58
10	1,48	1,47	1,49	1,46	1,44	1,72	1,7	1,69	1,71	1,68	1,75	1,73	1,74	1,73	1,72	1,66	1,64	1,65	1,63	1,66	1,6	1,58	1,61	1,57	1,59	1,55	1,56	1,53	1,51	1,54
11	1,43	1,41	1,42	1,41	1,4	1,65	1,62	1,64	1,67	1,63	1,7	1,66	1,68	1,69	1,68	1,62	1,57	1,59	1,58	1,61	1,55	1,52	1,56	1,52	1,54	1,5	1,5	1,47	1,46	1,49
12	1,35	1,36	1,37	1,34	1,33	1,6	1,56	1,57	1,6	1,58	1,65	1,61	1,6	1,62	1,63	1,56	1,52	1,55	1,53	1,54	1,5	1,47	1,48	1,46	1,49	1,44	1,42	1,41	1,4	1,43
13	1,31	1,3	1,28	1,27	1,25	1,54	1,5	1,52	1,5	1,51	1,6	1,56	1,55	1,53	1,57	1,51	1,46	1,49	1,48	1,45	1,44	1,4	1,42	1,41	1,41	1,38	1,34	1,35	1,32	1,33
14	1,1	1,04	1,08	1,06	1	1,35	1,38	1,32	1,33	1,34	1,48	1,43	1,4	1,45	1,42	1,28	1,3	1,26	1,24	1,25	1,2	1,22	1,18	1,17	1,21	1,16	1,15	1,22	1,1	1,13
15	0,42	0,44	0,4	0,38	0,36	1,13	1,15	1,1	1,12	1,11	1,25	1,21	1,19	1,22	1,2	0,92	0,98	0,91	0,9	0,93	0,78	0,76	0,72	0,74	0,71	0,54	0,51	0,5	0,48	0,46
16	0,13	0,17	0,15	0,1	0,12	0,54	0,56	0,52	0,5	0,59	0,62	0,65	0,61	0,61	0,66	0,43	0,44	0,4	0,41	0,4	0,3	0,33	0,35	0,32	0,3	0,22	0,2	0,2	0,21	0,24
17	0	0	0	0	0	0,27	0,28	0,3	0,28	0,26	0,32	0,31	0,38	0,35	0,36	0,2	0,18	0,22	0,21	0,17	0,11	0,13	0,1	0,15	0,12	0	0	0	0	0
18	0	0	0	0	0	0,12	0,14	0,15	0,13	0,1	0,19	0,2	0,18	0,17	0,2	0,11	0,09	0,07	0,06	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0,06	0,05	0,06	0	0,08	0,06	0,11	0,12	0,1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0