

LAMPIRAN

Lampiran 1 Surat Determinasi

HERBARIUM JATINANGOR
LABORATORIUM TAKSONOMI TUMBUHAN
JURUSAN BIOLOGI FMIPA UNPAD
 Gedung D2-212, Jl. Raya Bandung Sumedang Km 21 Jatinangor
 Telp. 022-7796412, email: phanerogamae@yahoo.com

LEMBAR IDENTIFIKASI TUMBUHAN
 No.21/HB/12/2021

Herbarium Jatinangor, Laboratorium Taksonomi Tumbuhan, Jurusan Biologi FMIPA UNPAD, dengan ini menerangkan bahwa:

Nama : Sukanto
 NDM : 11181228
 Instansi : Universitas Bhakti Kencana
 Telah melakukan identifikasi tumbuhan, dengan No. Koleksi: -
 Tanggal Koleksi : 20 Desember 2021
 Lokasi : Bandung.

Hasil Identifikasi,

Nama Ilmiah : *Centella asiatica* (L.) Urb.
 Sinonim : *Centella boninensis* Nakai ex Tuyama
 Nama Lokal : Pegagan
 Suku/Famili : Apiaceae

Klasifikasi (Hirarki Taksonomi)

Kingdom : Plantae
 Divisi : Magnoliophyta
 Class : Magnoliopsida
 Ordo : Apiales
 Famili : Apiaceae
 Genus : *Centella*
 Species : *Centella asiatica* (L.) Urb.

Referensi:

Cronquist, Arthur. 1981. *An Integrated System of Classification of Flowering Plants*.
 Columbia University Press. New York
 The Plant List. *Website Dunia Tumbuhan*. <http://www.theplantlist.org/tpl1.1/record/kew-158489>.
 Backer, C. A. and Bakhuizen v/d Brink R. C Jr. 1963. *Flora of Java*. Wolter-Noordhoff NV. Groningen.

Jatinangor, 22 Desember 2021.

Identifikator,


 LABORATORIUM TAKSONOMI TUMBUHAN
 JURUSAN BIOLOGI FMIPA UNPAD
Drs. Joko Kusumoro, M.P.
 NIP. 19600801 199101 1 001

Lampiran 2 Surat Persetujuan Komite Etik



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,
RISET DAN TEKNOLOGI
UNIVERSITAS PADJADJARAN
KOMISI ETIK PENELITIAN
RESEARCH ETHICS COMMITTEE
Jl. Prof. Eydeman No. 38 Bandung 40131
Telp. & Fax. 022-2538697 email: kkep@unpad.ac.id, website: kkep.unpad.ac.id

No. Reg.: 2201020013

PERSETUJUAN ETIK
ETHICAL APPROVAL

Nomor: 615/UN6.KEPI/EC/2022

Komisi Etik Penelitian Universitas Padjadjaran Bandung, telah mengkaji dengan teliti proposal penelitian yang menggunakan subjek Hewan Coba dalam penelitian yang berjudul:

The Research Ethics Committee Universitas Padjadjaran Bandung, has been thoroughly reviewed proposal for research with animal subjects in research entitled:

"FORMULASI DAN EVALUASI SEDIAAN GEL EKSTRAK PEGAGAN (*CENTELLA ASIATICA* L.) DENGAN AKTIVITAS ANTINFLAMASI"

Nama Peneliti Utama : Sukanto
Principal Researcher

Pembimbing/Peneliti Lain : Fenti Fatmawati, M.Si
Supervisor/Other Researcher apt. Drs. Rahmat Santosos, M.Si., MH.Kes

Nama Institusi : Program Sarjana
Institution Program Studi Farmasi
Fakultas Farmasi Universitas Bhakti Kencana

proposal tersebut dapat disetujui pelaksanaannya.
hereby declare that the proposal is approved.



Ditetapkan di : Bandung
Issued in
Tanggal : 27-06-2022
Date

Ketua,
Chairman,



Nur Atik, dr, M.Kes., PhD
NIP. 19811010 200801 1 019

Keterangan/notes:
 Persetujuan etik ini berlaku selama satu tahun sejak tanggal ditetapkan.
This ethical clearance is effective for one year from the due date.
 Pada akhir penelitian, laporan pelaksanaan penelitian harus diserahkan ke Komisi Etik Penelitian.
In the end of the research, progress and final summary report should be submitted to the Research Ethics Committee.
 Jika ada perubahan atau penyimpangan protokol harus segera dilaporkan ke Komisi Etik Penelitian.
If there be any protocol modification or deviation and/or extension of the study, the Principal Investigator is required to resubmit the protocol for approval.
 Jika ada kejadian serius yang tidak diantisipasi (KTD) harus segera dilaporkan ke Komisi Etik Penelitian.
If there are Serious Adverse Events (SAE) should be immediately reported to the Research Ethics Committee

Lampiran 3 Uji One way Anova pH

Tests of Normality

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
pH	F1	.257	5	.200*	.869	5	.264
	F2	.323	5	.096	.840	5	.166
	F3	.254	5	.200*	.861	5	.231

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

	Levene Statistic	df1	df2	Sig.	
pH	Based on Mean	.612	2	12	.559
	Based on Median	.239	2	12	.791
	Based on Median and with adjusted df	.239	2	8.887	.792
	Based on trimmed mean	.447	2	12	.650

ANOVA

pH

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.819	2	.409	103.802	.000
Within Groups	.047	12	.004		
Total	.866	14			

Multiple Comparisons

Dependent Variable: pH

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Bonferroni	F1	F2	-.10600	.03972	.061	-.2164	.0044
		F3	.43400*	.03972	.000	.3236	.5444
	F2	F1	.10600	.03972	.061	-.0044	.2164
		F3	.54000*	.03972	.000	.4296	.6504
	F3	F1	-.43400*	.03972	.000	-.5444	-.3236
		F2	-.54000*	.03972	.000	-.6504	-.4296

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

Lampiran 4 Uji One Way Anova Daya Sebar**Tests of Normality**

	Perlakuan	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Daya_Sebar	F1	.314	5	.121	.851	5	.197
	F2	.244	5	.200*	.950	5	.735
	F3	.221	5	.200*	.969	5	.868

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

	Levene Statistic	df1	df2	Sig.
Based on Mean	2.199	2	12	.154
Based on Median	1.512	2	12	.260
Based on Median and with adjusted df	1.512	2	5.778	.296
Based on trimmed mean	1.875	2	12	.196

ANOVA

Daya Sebar

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.571	2	.285	12.611	.001
Within Groups	.271	12	.023		
Total	.842	14			

Multiple Comparisons

Dependent Variable: Daya Sebar

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Bonferroni	F1	F2	.45200*	.09513	.001	.1876	.7164
		F3	.36000*	.09513	.008	.0956	.6244
	F2	F1	-.45200*	.09513	.001	-.7164	-.1876
		F3	-.09200	.09513	1.000	-.3564	.1724
	F3	F1	-.36000*	.09513	.008	-.6244	-.0956
		F2	.09200	.09513	1.000	-.1724	.3564

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

Lampiran 5 Uji One Way Anova Viskositas**Tests of Normality**

	Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Viskositas	F1	.243	5	.200*	.900	5	.411
	F2	.210	5	.200*	.895	5	.383
	F3	.310	5	.131	.783	5	.059

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

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Viskositas

Levene Statistic	df1	df2	Sig.
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.973	2	42	.386
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ANOVA

Viskositas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	34810378.906	2	17405189.453	2.021	.175
Within Groups	103369236.653	12	8614103.054		
Total	138179615.559	14			

Lampiran 6 Uji *One Way* Anova Aktivitas Antiinflamasi**Tests of Normality**

	Perlakuan	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Persen_Radang	Kontrol-	.248	3	.	.968	3	.658
	Kontrol+	.202	3	.	.994	3	.853
	F1	.189	3	.	.998	3	.908
	F2	.202	3	.	.994	3	.853
	F3	.261	3	.	.957	3	.603

a. Lilliefors Significance Correction

Test of Homogeneity of Variance

Test of Homogeneity of Variance					
		Levene Statistic	df1	df2	Sig.
Persen_Radang	Based on Mean	.289	4	25	.882
	Based on Median	.181	4	25	.946
	Based on Median and with adjusted df	.181	4	15.820	.945
	Based on trimmed mean	.242	4	25	.912

ANOVA

Persen_Radang

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	13727.455	5	3431.864	421.942	.000
Within Groups	81.335	10	8.133		
Total	13808.789	15			

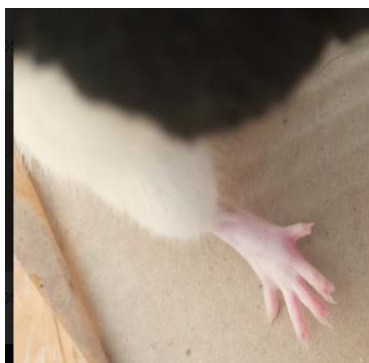
Multiple Comparisons

Dependent Variable: Persen_Radang

	(I) Perlakuan	(J) Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Bonferroni	Kontrol -	Kontrol +	82.34667*	15.32751	.000	35.1655	129.5278
		F1	34.33500	15.32751	.342	-12.8461	81.5161
		F2	58.92500*	15.32751	.007	11.7439	106.1061
		F3	76.55833*	15.32751	.000	29.3772	123.7395
		Kontrol -	-82.34667*	15.32751	.000	-129.5278	-35.1655
		F1	-48.01167*	15.32751	.044	-95.1928	-.8305
	Kontrol +	F2	-23.42167	15.32751	1.000	-70.6028	23.7595
		F3	-5.78833	15.32751	1.000	-52.9695	41.3928
		Kontrol -	-34.33500	15.32751	.342	-81.5161	12.8461
	F1	Kontrol +	48.01167*	15.32751	.044	.8305	95.1928
		F2	24.59000	15.32751	1.000	-22.5911	71.7711
		F3	42.22333	15.32751	.108	-4.9578	89.4045
	F2	Kontrol -	-58.92500*	15.32751	.007	-106.1061	-11.7439
		Kontrol +	23.42167	15.32751	1.000	-23.7595	70.6028
		F1	-24.59000	15.32751	1.000	-71.7711	22.5911
	F3	F3	17.63333	15.32751	1.000	-29.5478	64.8145
		Kontrol -	-76.55833*	15.32751	.000	-123.7395	-29.3772
		Kontrol +	5.78833	15.32751	1.000	-41.3928	52.9695
	F3	F1	-42.22333	15.32751	.108	-89.4045	4.9578
		F2	-17.63333	15.32751	1.000	-64.8145	29.5478

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

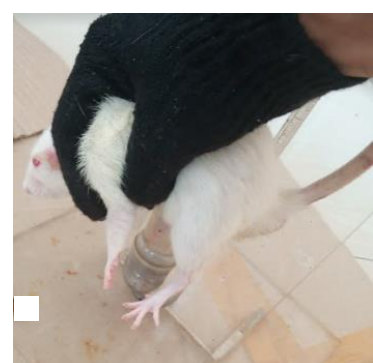
Lampiran 7 Pengujian Antiinflamasi



Sebelum induksi karagen



Setelah induksi karagen



Pengukuran volume udema

Lampiran 9 Surat Pernyataan Bebas Plagiasi

SURAT PERNYATAAN

Yang bertanda tangan di bawah ini,
Nama : Sukanto
N P M : 11181228
adalah mahasiswa Fakultas Farmasi, Universitas Bhakti Kencana, menyatakan dengan
sesungguhnya bahwa Naskah Tugas Akhir/Skripsi yang saya tulis dengan judul:

**Formulasi dan Evaluasi Sediaan Gel Ekstrak Pegagan (*Centella asiatica* L) dengan
Aktivitas Antiinflamasi**

*adalah benar-benar merupakan hasil karya saya sendiri. Apabila di kemudian hari diketahui
bahwa isi Naskah Skripsi ini merupakan hasil plagiasi, maka saya bersedia menerima sanksi
berupa pembatalan kelulusan dan atau pencabutan gelar yang saya peroleh.
Demikian surat pernyataan ini saya buat untuk dapat dipergunakan sebagaimana mestinya.*

Bandung ,08 Agustus 2022

Yang membuat pernyataan,

Sukanto
NPM 11181228