

LAMPIRAN

Lampiran 1 : Determinasi Tanaman

**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/11/2021

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

Nama : Silvi Nur Amalia
NPM : 11181139
Instansi : Universitas Bhakti Kencana
Telah melakukan identifikasi tumbuhan, dengan No. Koleksi : -
Tanggal Koleksi : 19 Nopember 2021
Lokasi : Bandung.

Hasil Identifikasi,

Nama Ilmiah : *Pometia pinnata* J.R.Forst. & G.Forst.
Sinonim : *Allophylus cobbe* (L.) Raeusch.
Nama Lokal : Daun Matoa
Suku/Famili : Sapindaceae

Klasifikasi (Hirarki Taksonomi)

Kingdom : Plantae
Divisi : Tracheophyta
Class : Magnoliopsida
Ordo : Sapindales
Family : Sapindaceae
Genus : *Pometia*
Species : *Pometia pinnata* J.R.Forst. & G.Forst.

Referensi:

Backer, C. A. and Bakhuizen v/d Brink R. C Jr. 1963. *Flora of Java*. Wolter-Noordhoff NV. Groningen.

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>. Diakses tanggal, 23 Nopember 2021.

Jatinangor, 23 Nopember 2021

Identifikator,

**LABORATORIUM TAKSONOMI TUMBUHAN
JURUSAN BIOLOGI FMIPA-UNPAD**

Drs. Joko Kusmoro, M.P.
NIP. 19600801 199101 1 001

Lampiran 2: Kode Etik Hewan



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,
RISET DAN TEKNOLOGI
UNIVERSITAS PADJADJARAN
KOMISI ETIK PENELITIAN
RESEARCH ETHICS COMMITTEE

Jl. Prof. Etyckman No. 38 Bandung 40161
Telp. & Fax. 022-2036897 email: kep@unpad.ac.id, website: kep.unpad.ac.id

No. Reg.: 2201020121

PERSETUJUAN ETIK
ETHICAL APPROVAL

Nomor: 210/UN6.KEP/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 throughly reviewed proposal for reaserch with animal subjects in reaserach entitled:

"AKTIVITAS ANTIDIABETES EKSTRAK ETANOL DAUN MATOA (*POMETIA PINNATA* FORST.) PADA MODEL HEWAN DIABETES YANG DIINDUKSI ALOKSAN DAN METODE TTGO"

Nama Peneliti Utama <i>Principal Researcher</i>	:	Sri Eka Wati Sudiharto
Pembimbing/Peneliti Lain <i>Supervisor/Other Researcher</i>	:	apt.Widhya Aligita,M.Si Aulia Nurfazri Istiqomah,M.Si
Nama Institusi <i>Institution</i>	:	Program Sarjana 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 : 07-03-2022
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.

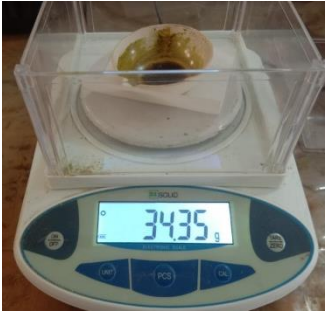
Jika ada perubahan atau penyimpangan protokol dan/atau perpanjangan penelitian, harus mengajukan kembali permohonan kajian etik penelitian.

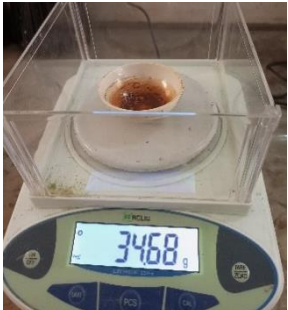
If there be any protocol modification or deviation and/or extension of the study, the Principal Investigator is required to resubmit the protocol for approval.

Jika ada kejadian serius yang tidak diinginkan (KTD) harus segera dilaporkan ke Komisi Etik Penelitian.

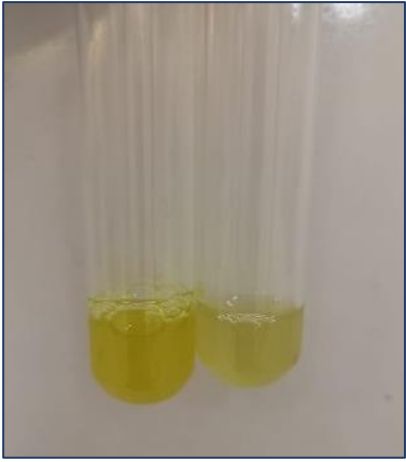
If there are Sencus Adverse Events (SAE) should be immediately reported to the Research Ethics Committee

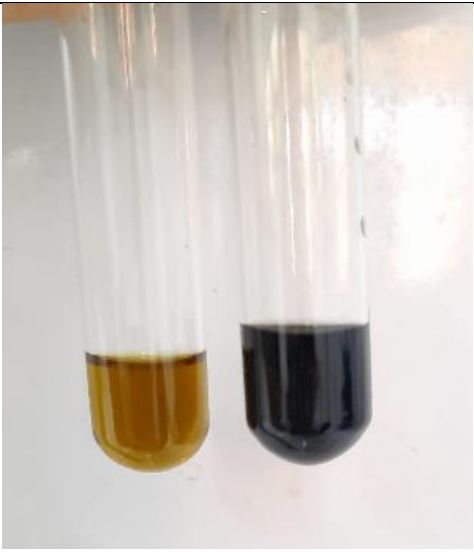
Lampiran 3: Standarisasi

Nama	Perhitungan	Gambar
Kadar Abu Total	$= \frac{W_2 - W_0}{W_1} \times 100 \%$ $= \frac{36,13 - 35,80}{3} \times 100 \%$ $= \frac{0,33}{3} \times 100 \%$ $= 11\%$	
Kadar Abu Tidak larut Asam	$= \frac{W_2 - W_0}{W_1} \times 100 \%$ $= \frac{35,848 - 35,80}{3} \times 100 \%$ $= \frac{0,048}{3} \times 100\%$ $= 1,6\%$	
Kadar Sari Larut Etanol	$= \frac{W_2 - W_0}{W_1} \times \frac{100}{20} \times 100 \%$ $=$ $\frac{34,35 - 34,16}{5} \times \frac{100}{20} \times 100 \%$ $= 0,038 \times 5 \times 100$ $= 19 \%$	 Cawan Kosong 

		Bobot konstan
Kadar Sari Larut Air	$= \frac{W_2 - W_0}{W_1} \times \frac{100}{20} \times 100 \%$ $=$ $\frac{34,68 - 34,46}{5} \times \frac{100}{20} \times 100 \%$ $= 0,044 \times 5 \times 100 \%$ $= 22 \%$	 Cawan Kosong  Bobot konstan
Susut Pengeringan	11,512%	

Lampiran 3: Skrining Fitokimia

Nama	Foto
Alkaloid	
Flavonoid	
Kuion	

Tanin	
Saponin	
Steroid	

Lampiran 4: Data KGD

Kelompok Negatif

NO	BB	T0	Tin	T14
1	22	110	114	116
2	35	97	100	110
3	33	131	128	107
Rata-rata		112,67	114,00	111,00
SD		17,16	14,00	4,58

Kelompok Positif

No	BB	T0	Tin	T14
1	26	119	311	358
2	25	96	347	566
3	27	115	268	466
Rata-rata		110	308,667	463,333
SD		12,29	39,55	104,03

Kelompok Pembanding

No	BB	T0	Tin	T14
1	27	101	258	227
2	29	88	327	270
3	24	112	315	235
Rata-rata		100,33	300,00	244,00
SD		12,01	36,86	22,87

Kelompok EEDM 500 Mg/KgBB

No	BB	T0	Tin	T14
1	20	101	319	300
2	24	98	438	413
3	31	118	368	347
Rata-rata		105,67	375,00	353,33
SD		10,79	59,81	56,77

Kelompok EEDM 750 Mg/KgBB

No	BB	T0	TIN	T14
1	22	106	239	206
2	24	100	370	339
3	25	91	258	228
Rata-rata		99,00	289,00	257,67
SD		7,55	70,79	71,29

Kelompok EEDM 1000 Mg/KgBB

No	BB	T0	TIN	T14
1	21	106	266	158
2	24	96	310	270
3	25	91	345	281
Rata-rata		97,67	307,00	236,33
SD		7,64	39,59	68,06

Rata-Rata KGD

Waktu	Normal	Positif	Pembanding	EEDM 500 mg/KgBB	EEDM 750 mg/KgBB	EEDM 1000 mg/KgBB
T0	112,67	110,00	100,33	105,67	99,00	97,67
T0'	114,00	308,67	300,00	375,00	289,00	307,00
T14	111,00	463,33	244,00	353,33	257,67	236,33

Lampiran 5: Data SPSS

DATA KGD (T0)

1. Normalitas

Tests of Normality							
	Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
KGD	Negatif	.228	3	.	.982	3	.742
	Positif	.325	3	.	.876	3	.312
	Pembanding	.189	3	.	.998	3	.908
	EEDM 500 mg/KgBB	.334	3	.	.860	3	.266
	EEDM 750 mg/KgBB	.219	3	.	.987	3	.780
	EEDM 1000 mg/KgBB	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

KET: Data KGD terdistribusi normal $P > 0.05$

2. Normalitas

Test of Homogeneity of Variances

KGD			
Levene Statistic	df1	df2	Sig.
.673	5	12	.652

3. LSD

KET: Tidak dapat perbedaan bermakna

Multiple Comparisons

Dependent Variable: KGD

LSD

(I) Kelompok	(J) Kelompok	Mean Difference (I- J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Negatif	Positif	2.667	9.553	.785	-18.15	23.48
	Pembanding	12.333	9.553	.221	-8.48	33.15
	EEDM 500 mg/KgBB	7.000	9.553	.478	-13.81	27.81
	EEDM 750 mg/KgBB	13.667	9.553	.178	-7.15	34.48
	EEDM 1000 mg/KgBB	15.000	9.553	.142	-5.81	35.81
Positif	Negatif	-2.667	9.553	.785	-23.48	18.15
	Pembanding	9.667	9.553	.332	-11.15	30.48
	EEDM 500 mg/KgBB	4.333	9.553	.658	-16.48	25.15
	EEDM 750 mg/KgBB	11.000	9.553	.272	-9.81	31.81
	EEDM 1000 mg/KgBB	12.333	9.553	.221	-8.48	33.15
Pembanding	Negatif	-12.333	9.553	.221	-33.15	8.48
	Positif	-9.667	9.553	.332	-30.48	11.15
	EEDM 500 mg/KgBB	-5.333	9.553	.587	-26.15	15.48
	EEDM 750 mg/KgBB	1.333	9.553	.891	-19.48	22.15
	EEDM 1000 mg/KgBB	2.667	9.553	.785	-18.15	23.48
EEDM 500 mg/KgBB	Negatif	-7.000	9.553	.478	-27.81	13.81
	Positif	-4.333	9.553	.658	-25.15	16.48
	Pembanding	5.333	9.553	.587	-15.48	26.15
	EEDM 750 mg/KgBB	6.667	9.553	.499	-14.15	27.48
	EEDM 1000 mg/KgBB	8.000	9.553	.419	-12.81	28.81
EEDM 750 mg/KgBB	Negatif	-13.667	9.553	.178	-34.48	7.15
	Positif	-11.000	9.553	.272	-31.81	9.81
	Pembanding	-1.333	9.553	.891	-22.15	19.48
	EEDM 500 mg/KgBB	-6.667	9.553	.499	-27.48	14.15
	EEDM 1000 mg/KgBB	1.333	9.553	.891	-19.48	22.15
EEDM 1000 mg/KgBB	Negatif	-15.000	9.553	.142	-35.81	5.81
	Positif	-12.333	9.553	.221	-33.15	8.48
	Pembanding	-2.667	9.553	.785	-23.48	18.15
	EEDM 500 mg/KgBB	-8.000	9.553	.419	-28.81	12.81
	EEDM 750 mg/KgBB	-1.333	9.553	.891	-22.15	19.48

DATA KGD (INDUKSI)

1. Normalitas

Tests of Normality							
	Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Tinduksi	Negatif	.175	3	.	1.000	3	1.000
	Positif	.190	3	.	.997	3	.902
	Pembanding	.325	3	.	.876	3	.312
	EEDM 500	.213	3	.	.990	3	.806
	Mg/KgBB						
	EEDM 750	.336	3	.	.856	3	.257
	Mg/KgBB						
	EEDM 1000	.197	3	.	.996	3	.875
	Mg/KgBB						

2. Homogenitas

Test of Homogeneity of Variances

Tinduksi

Levene Statistic	df1	df2	Sig.
1.528	5	12	.253

3. LSD

KET: Tidak dapat perbedaan bermakna

Multiple Comparisons

Dependent Variable: Tinduksi

LSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Negatif	Positif	-194.667*	38.405	.000	-278.34	-110.99
	Pembanding	-186.000*	38.405	.000	-269.68	-102.32
	EEDM 500 Mg/KgBB	-261.000*	38.405	.000	-344.68	-177.32
	EEDM 750 Mg/KgBB	-175.000*	38.405	.001	-258.68	-91.32
	EEDM 1000 Mg/KgBB	-193.000*	38.405	.000	-276.68	-109.32
Positif	Negatif	194.667*	38.405	.000	110.99	278.34
	Pembanding	8.667	38.405	.825	-75.01	92.34
	EEDM 500 Mg/KgBB	-66.333	38.405	.110	-150.01	17.34
	EEDM 750 Mg/KgBB	19.667	38.405	.618	-64.01	103.34
	EEDM 1000 Mg/KgBB	1.667	38.405	.966	-82.01	85.34
Pembanding	Negatif	186.000*	38.405	.000	102.32	269.68
	Positif	-8.667	38.405	.825	-92.34	75.01
	EEDM 500 Mg/KgBB	-75.000	38.405	.075	-158.68	8.68
	EEDM 750 Mg/KgBB	11.000	38.405	.779	-72.68	94.68
	EEDM 1000 Mg/KgBB	-7.000	38.405	.858	-90.68	76.68
EEDM 500 Mg/KgBB	Negatif	261.000*	38.405	.000	177.32	344.68
	Positif	66.333	38.405	.110	-17.34	150.01
	Pembanding	75.000	38.405	.075	-8.68	158.68
	EEDM 750 Mg/KgBB	86.000*	38.405	.045	2.32	169.68
	EEDM 1000 Mg/KgBB	68.000	38.405	.102	-15.68	151.68
EEDM 750 Mg/KgBB	Negatif	175.000*	38.405	.001	91.32	258.68
	Positif	-19.667	38.405	.618	-103.34	64.01
	Pembanding	-11.000	38.405	.779	-94.68	72.68
	EEDM 500 Mg/KgBB	-86.000*	38.405	.045	-169.68	-2.32
	EEDM 1000 Mg/KgBB	-18.000	38.405	.648	-101.68	65.68
EEDM 1000 Mg/KgBB	Negatif	193.000*	38.405	.000	109.32	276.68
	Positif	-1.667	38.405	.966	-85.34	82.01
	Pembanding	7.000	38.405	.858	-76.68	90.68
	EEDM 500 Mg/KgBB	-68.000	38.405	.102	-151.68	15.68
	EEDM 750 Mg/KgBB	18.000	38.405	.648	-65.68	101.68

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

DATA KGD (T14)

1. Normalitas

Tests of Normality							
	Kelompok	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
T14	Negatif	.253	3	.	.964	3	.637
	Positif	.178	3	.	1.000	3	.958
	Pembanding	.320	3	.	.884	3	.336
	EEDM 500 mg/KgBB	.211	3	.	.991	3	.815
	EEDM 750 mg/KgBB	.328	3	.	.870	3	.296
	EEDM 1000 mg/KgBB	.356	3	.	.816	3	.155

a. Lilliefors Significance Correction

KET: Data KGD terdistribusi normal $P > 0.05$

2. Homogenitas

Test of Homogeneity of Variances

T14

Levene Statistic	df1	df2	Sig.
2.020	5	12	.148

KET: Data KGD terdistribusi homogen $P > 0.05$

3. LSD

KET: Terdapat perbedaan bermakna antar kelompok

Multiple Comparisons

Dependent Variable: T14

LSD

(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Negatif	Positif	-352.333*	51.964	.000	-465.55	-239.11
	Pembanding	-133.000*	51.964	.025	-246.22	-19.78
	EEDM 500 mg/KgBB	-242.333*	51.964	.001	-355.55	-129.11
	EEDM 750 mg/KgBB	-146.667*	51.964	.015	-259.89	-33.45
	EEDM 1000 mg/KgBB	-125.333*	51.964	.033	-238.55	-12.11
Positif	Negatif	352.333*	51.964	.000	239.11	465.55
	Pembanding	219.333*	51.964	.001	106.11	332.55
	EEDM 500 mg/KgBB	110.000	51.964	.056	-3.22	223.22
	EEDM 750 mg/KgBB	205.667*	51.964	.002	92.45	318.89
	EEDM 1000 mg/KgBB	227.000*	51.964	.001	113.78	340.22
Pembanding	Negatif	133.000*	51.964	.025	19.78	246.22
	Positif	-219.333*	51.964	.001	-332.55	-106.11
	EEDM 500 mg/KgBB	-109.333	51.964	.057	-222.55	3.89
	EEDM 750 mg/KgBB	-13.667	51.964	.797	-126.89	99.55
	EEDM 1000 mg/KgBB	7.667	51.964	.885	-105.55	120.89
EEDM 500 mg/KgBB	Negatif	242.333*	51.964	.001	129.11	355.55
	Positif	-110.000	51.964	.056	-223.22	3.22
	Pembanding	109.333	51.964	.057	-3.89	222.55
	EEDM 750 mg/KgBB	95.667	51.964	.090	-17.55	208.89
	EEDM 1000 mg/KgBB	117.000*	51.964	.044	3.78	230.22
EEDM 750 mg/KgBB	Negatif	146.667*	51.964	.015	33.45	259.89
	Positif	-205.667*	51.964	.002	-318.89	-92.45
	Pembanding	13.667	51.964	.797	-99.55	126.89
	EEDM 500 mg/KgBB	-95.667	51.964	.090	-208.89	17.55
	EEDM 1000 mg/KgBB	21.333	51.964	.689	-91.89	134.55
EEDM 1000 mg/KgBB	Negatif	125.333*	51.964	.033	12.11	238.55
	Positif	-227.000*	51.964	.001	-340.22	-113.78
	Pembanding	-7.667	51.964	.885	-120.89	105.55
	EEDM 500 mg/KgBB	-117.000*	51.964	.044	-230.22	-3.78
	EEDM 750 mg/KgBB	-21.333	51.964	.689	-134.55	91.89

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

	Aklimatisasi
	Oral
	Cek KGD
	Induksi aloksan lewat IP
	EEDM sesuai dosis
	Perbedaan KGD normal dan Diabetes