

LAMPIRAN

Lampiran 1 Bukti plagiarisme

AKTIVITAS ANTIDISLIPIDEMIA PADA FRAKSI ETIL ASETAT
EKSTRAK ETANOL DAUN SAMBUNG NYAWA (*Gynura
procumbens* (Lour.) Merr) PADA TIKUS DIABETES MELITUS
YANG DIINDUKSI STEREPTOZOTOCIN

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Lampiran 2 Kode Etik



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

Jl. Prof. Eyckman No. 38 Bandung 40131
Telp. & Fax. 022-2538897 email: kep@unpad.ac.id, website: kep.unpad.ac.id

No. Reg.: 2401080024

PERSETUJUAN ETIK
ETHICAL APPROVAL

Nomor: 528/UN6.KEP/EC/2024

Komite 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:

"UJI AKTIVITAS ANTIDIABETES DAN ANTIHIPERLIPIDEMIA FRAKSI ETIL ASETAT EKSTRAK ETANOL DAUN BINAHONG (ANREDERA CORDIFOLIA) DAN DAUN SAMBUNG NYAWA (GYUNURA PROCUMBENS) PADA TIKUS YANG DIINDUKSI STREPTOZOTOCIN"

Nama Peneliti Utama <i>Principal Researcher</i>	:	Dewi Sintawati Eka Rahmat Nugraha Nida Putri Apriliyanti Sensi Friska Daelli
Pembimbing/ Peneliti Lain <i>Supervisor/ Other Researcher</i>	:	Dr. apt. Yani Mulyani, M.Si.
Nama Institusi <i>Institution</i>	:	Program Sarjana Program Studi Farmasi Fakultas Farmasi Universitas Bhakti Kencana Bandung

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

Ditetapkan di : Bandung
Issued in
Tanggal : 14-05-2024
Date



Ketua,
Chairman,



Prof. Nur Adik, dr. M.Kes., MOHRE., PhD
NIP. 19811010 200801 1 019

Keterangan/notes:

Peretujuan 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 Komite 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 Komite Etik Penelitian.

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

Lampiran 3 Determinasi Sambung nyawa

HERBARIUM JATINANGOR
LABORATORIUM TAKSONOMI TUMBUHAN
JURUSAN BIOLOGI FMIPA UNPAD
 Gedung D2-212, Jl. Raya Bandung Sumedang Km 21 Jatinangor
 Telp. 089689992695, email: phanerogamac@yahoo.com

LEMBAR IDENTIFIKASI TUMBUHAN
 No.48/HB/01/2024.

Herbarium Jatinangor, Laboratorium Taksonomi Tumbuhan, Jurusan Biologi FMIPA UNPAD, dengan ini menerangkan bahwa:
 Nama : Nida Putri Apriliyanti
 NIM/NIP : 221FF04038
 Instansi : Universitas Bhakti Kencana.
 Lokasi : Bandung.

Telah melakukan identifikasi tumbuhan, dengan No. Koleksi :
 Tanggal Koleksi : 20 Januari 2024.

Hasil Identifikasi
 Nama Ilmiah : *Gynura procumbens* [Lour.] Merr.
 Sinonim : *Gynura procumbens* [Blume] Miq.
 Nama Lokal : Sambung nyawa.
 Suku/Famili : Asteraceae

Klasifikasi (Hirarki Taksonomi)
 Kingdom : Plantae
 Divisi : Magnoliophyta
 Class : Magnoliopsida
 Ordo : Asterales
 Famili : Asteraceae
 Genus : *Gynura*
 Species : *Gynura procumbens* [Lour.] Merr.

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>.

Jatinangor, 22 Januari 2024.

Identifikator,

LABORATORIUM TAKSONOMI TUMBUHAN
JURUSAN BIOLOGI FMIPA-UNPAD

Drs. Joko Kusnoro, M.P.

NIP. 19600801 199101 1 001

Lampiran 4 sertifikat streptozotosin



MOLECULAR TOOLS FOR LIFE SCIENCES

CERTIFICATE OF ANALYSIS

STREPTOZOTOCIN

SYNONYMS
PRODUCT CODE (SKU)
PRODUCT SIZE
CAS NUMBER
LOT NUMBER

: N/A

: 41910012-5

: 5 g

: 18883-66-4

: V23100402

MOLECULAR FORMULA
MOLECULAR WEIGHT
STORAGE TEMP.
REASSAY/ EXP DATE

: C₈H₁₅N₃O₇

: 265.22 g/mol

: -20°C

: 03/2025

PROPERTIES	SPECIFICATIONS	TEST RESULTS
Appearance:	Crystalline Solid	PASS
Color:	Pale Yellow to White	PASS
Assay:	≥98%	99.91%
HPLC:	Conforms to Standard	PASS
Water:	≤3.0%	0.22%
α Isomer %	≥75%	96.92%

APPROVED BY:



Mallory McMullen
Quality Assurance

DATE:

01-03-2024

CREATION DATE: 01-03-2024 PRINT DATE: 01-05-2024

The above information is based upon data received from our supplier or our quality control measurements.



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Suite 228
Dublin, OH 43017

Lampiran 5 Surat Keterangan Tikus

**SURAT KETERANGAN**

Saya yang bertanda tangan di bawah ini :

Nama : **Dewi Wulandari**
Alamat : Jl. Ps. Baros, Baros Pasar Kavling No.28 I Rt.02 Rw.1
Cimahi Selatan 40532
No. Hp : 081578008919

menerangkan / menyatakan bahwa tikus putih yang kami kembangbiakan di peternakan AnakMami Tikus Putih adalah jenis Wistar. Tikus itu adalah normal yang digunakan sebagai hewan percobaan di Laboratorium

Demikian surat keterangan ini dibuat, semoga dapat digunakan sebagaimana mestinya. Atas kerjasamanya kami ucapkan terima kasih.

Cimahi,

Dewi Wulandari

AnakMami Tikus Putih
Jl. Ps. Baros, Baros Pasar Kavling I No.28 Rt.02 Rw.01 Cimahi Selatan 40532
081578008919 - 081328000919

Lampiran 6 Hasil Perhitungan Karakteristik Simplisia

Parameter Spesifik	Perhitungan
1. Kadar Sari Larut Etanol 	• Bobot Cawan Kosong = 81,251 g • Bobot Cawan + Sari = 81,374 g • Bobot Sampel = 5 g • Volume Filtrat = 20 ml $\text{Hasil} = 81,374 - 81,251 = 0,123 \text{ g}$ $0,123 \times 55 \times 100\% = 12,3 \%$
2. Kadar Sari Larut Air 	• Bobot Cawan Kosong = 127,231 g • Bobot Cawan + Sari = 127,526 g • Bobot Sampel = 5 g • Volume Filtrat = 20 ml $\text{Hasil} = 127,526 - 127,231 = 0,295 \text{ g}$ $0,295 \times 55 \times 100\% = 29,5 \%$
Parameter Non Spesifik	Perhitungan
1. Kadar Abu Total 	• Bobot Krus Kosong = 31,66 g • Bobot Cawan + Abu = 31,90 g • Bobot Sampel = 2 g $\text{Hasil} = 31,90 - 31,662 \times 100\% = 12 \%$
2. Kadar Abu Tidak Larut Asam 	• Bobot Krus Kosong = 31,66 g • Bobot Cawan + Abu = 31,70 g • Bobot Sampel = 2 g $\text{Hasil} = 31,70 - 31,662 \times 100\% = 2\%$

Lampiran 7 Penapisan Fitokimia

Metabolit Sekunder	Hasil
Alkaloid	 (+) Endapan merah bata  (+) Endapan Putih
Flavonoid	 (+) Terbentuk warna pada lapisan amil alkohol
Tannin	 (+) Endapan Putih  (+) Berwarna hitam kehijauan
Kuinon	 (+) Terdapat warna merah
Saponin	 (+) Terbentuk Busa
Triterpenoid	 (+) Terbentuk warna merah keunguan

Lampiran 8 Perhitungan Dosis Larutan Uji

➤ **Perhitungan Na-CMC 0,5%**

Na-CMC 0,5 % dibuat sebanyak 100 mL maka:

Berat yang ditimbang = 0,5 g → 500 mg

Volumen untuk melarutkan = 100 mL

➤ **Perhitungan dosis sampel:**

Dosis pertama (daun sambung nyawa 100 mg/Kg BB)

$$= \frac{200 \text{ gram}}{1000 \text{ gram}} \times 100 \text{ mg}$$

$$= 20 \text{ mg/200 gram}$$

Dosis kedua (Daun sambung nyawa 150 mg/Kg BB)

$$= \frac{200 \text{ gram}}{1000 \text{ gram}} \times 150 \text{ mg}$$

$$= 30 \text{ mg/200 gram}$$

➤ **Perhitungan dosis induksi streptozotosin**

Menggunakan dosis induksi 35 mg/Kg BB:

$$= \frac{200 \text{ gram}}{1000 \text{ gram}} \times 35 \text{ mg}$$

$$= 7 \text{ mg/ 200 gram}$$

➤ **Perhitungan dosis pembanding glibenklamid**

$$= 5 \text{ mg} \times 0,0018$$

$$= 0,09 \text{ mg/ 200 gram BB}$$

Karena dibuat dalam 100 mL, maka:

$$X = \frac{0,09 \text{ mg}}{5 \text{ mg}} \times 100 \text{ mL}$$

$$X = 1,8 \text{ mL}$$

Lampiran 9 Hasil Pengukuran Gula Darah

Kelompok	Tikus ke-	Kadar gula darah (mg/dL)			
		H0	H3	H14	H28
Normal	T1	115	123	123	124
	T2	118	110	107	105
	T3	108	103	107	100
	T4	96	98	101	114
	Rata-rata	109,2 ± 9,7	108,5 ± 10,8	109,5 ± 9,4	110,7 ± 10,5
Sakit	T1	91	264	291	327
	T2	109	276	298	338
	T3	94	284	297	335
	T4	118	265	296	302
	Rata-rata	103,0 ± 12,7	272,2 ± 9,5	295,5 ± 3,1	325,5 ± 16,3
Pembanding Simvastatin 10mg	T1	99	234	235	255
	T2	106	250	262	260
	T3	109	253	274	276
	T4	112	256	256	264
	Rata-rata	106,75 ± 5,56	248,25 ± 9,81#	256,75 ± 16,31*#	263,75 ± 8,95*
FEADSN 2 100mg/kg BB	T1	99	263	169	120
	T2	108	273	187	140
	T3	103	264	174	127
	T4	95	286	186	130
	Rata-rata	101,25 ± 5,56	271,5 ± 10,67	179 ± 8,90	129,25 ± 8,30
FEADSN 2 150mg/kg BB	T1	95	294	165	120
	T2	118	307	170	126
	T3	102	298	162	125

	T4	111	321	175	130
	Rata-rata	106,5 ± 10,08	305,0 ± 11,97 ^{*#}	168,0 ± 5,71 ^{*#}	125,25 ± 4,11 [*]

Lampiran 10 Analisis statistik gula darah

1. Test homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Kadar gula darah hari ke-0	Based on Mean	2,023	4	15	,143
	Based on Median	1,756	4	15	,190
	Based on Median and with adjusted df	1,756	4	11,903	,203
	Based on trimmed mean	2,019	4	15	,143
Kadar gula darah hari ke-3	Based on Mean	,067	4	15	,991
	Based on Median	,101	4	15	,981
	Based on Median and with adjusted df	,101	4	13,291	,980
	Based on trimmed mean	,077	4	15	,988
Kadar gula darah hari ke-14	Based on Mean	1,647	4	15	,214
	Based on Median	1,350	4	15	,298
	Based on Median and with adjusted df	1,350	4	6,730	,344
	Based on trimmed mean	1,626	4	15	,219
Kadar gula darah hari ke-28	Based on Mean	1,354	4	15	,296
	Based on Median	,803	4	15	,542
	Based on Median and with adjusted df	,803	4	6,946	,560
	Based on trimmed mean	1,193	4	15	,354

2. Anova

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Kadar gula darah hari ke-0	Between Groups	160,700	4	40,175	,477	,752
	Within Groups	1263,500	15	84,233		
	Total	1424,200	19			
Kadar gula darah hari ke-3	Between Groups	94446,300	4	23611,575	210,130	,000
	Within Groups	1685,500	15	112,367		
	Total	96131,800	19			
Kadar gula darah hari ke-14	Between Groups	87923,000	4	21980,750	230,446	,000
	Within Groups	1430,750	15	95,383		
	Total	89353,750	19			
Kadar gula darah hari ke-28	Between Groups	151835,800	4	37958,950	348,460	,000
	Within Groups	1634,000	15	108,933		
	Total	153469,800	19			

3. Multiple Comparisons

Multiple Comparisons

LSD

Dependent Variable	(I) Kelompok tikus	(J) Kelompok tikus	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Kadar gula darah hari ke-0	Kelompok Normal	Kelompok sakit	6,25000	6,48974	,351	-7,5825	20,0825
		Kelompok pembanding	2,75000	6,48974	,678	-11,0825	16,5825
		Kelompok FEADSN 1	8,00000	6,48974	,237	-5,8325	21,8325
		Kelompok FEADSN 2	2,75000	6,48974	,678	-11,0825	16,5825
	Kelompok sakit	Kelompok Normal	-6,25000	6,48974	,351	-20,0825	7,5825
		Kelompok pembanding	-3,50000	6,48974	,598	-17,3325	10,3325
		Kelompok FEADSN 1	1,75000	6,48974	,791	-12,0825	15,5825
		Kelompok FEADSN 2					

	Kelompok pembanding	Kelompok FEADSN 2	-3,50000	6,48974	,598	-17,3325	10,3325
		Kelompok Normal	-2,75000	6,48974	,678	-16,5825	11,0825
		Kelompok sakit	3,50000	6,48974	,598	-10,3325	17,3325
		Kelompok FEADSN 1	5,25000	6,48974	,431	-8,5825	19,0825
		Kelompok FEADSN 2	,00000	6,48974	1,000	-13,8325	13,8325
	Kelompok FEADSN 1	Kelompok Normal	-8,00000	6,48974	,237	-21,8325	5,8325
		Kelompok sakit	-1,75000	6,48974	,791	-15,5825	12,0825
		Kelompok pembanding	-5,25000	6,48974	,431	-19,0825	8,5825
		Kelompok FEADSN 2	-5,25000	6,48974	,431	-19,0825	8,5825
		Kelompok FEADSN 1	-2,75000	6,48974	,678	-16,5825	11,0825
	Kelompok FEADSN 2	Kelompok Normal	3,50000	6,48974	,598	-10,3325	17,3325
		Kelompok sakit	,00000	6,48974	1,000	-13,8325	13,8325
		Kelompok pembanding	5,25000	6,48974	,431	-8,5825	19,0825
		Kelompok FEADSN 1	-163,75000*	7,49555	,000	-179,7264	-147,7736
		Kelompok sakit	-139,75000*	7,49555	,000	-155,7264	-123,7736
	Kelompok sakit	Kelompok Normal	-163,00000*	7,49555	,000	-178,9764	-147,0236
		Kelompok pembanding	-196,50000*	7,49555	,000	-212,4764	-180,5236
		Kelompok FEADSN 1	163,75000*	7,49555	,000	147,7736	179,7264
		Kelompok sakit	24,00000*	7,49555	,006	8,0236	39,9764
		Kelompok pembanding					

		Kelompok FEADSN 1	,75000	7,49555	,922	-15,2264	16,7264
		Kelompok FEADSN 2	-32,75000*	7,49555	,001	-48,7264	-16,7736
	Kelompok pembanding	Kelompok Normal	139,75000*	7,49555	,000	123,7736	155,7264
		Kelompok sakit	-24,00000*	7,49555	,006	-39,9764	-8,0236
		Kelompok FEADSN 1	-23,25000*	7,49555	,007	-39,2264	-7,2736
		Kelompok FEADSN 2	-56,75000*	7,49555	,000	-72,7264	-40,7736
	Kelompok FEADSN 1	Kelompok Normal	163,00000*	7,49555	,000	147,0236	178,9764
		Kelompok sakit	-,75000	7,49555	,922	-16,7264	15,2264
		Kelompok pembanding	23,25000*	7,49555	,007	7,2736	39,2264
		Kelompok FEADSN 2	-33,50000*	7,49555	,000	-49,4764	-17,5236
	Kelompok FEADSN 2	Kelompok Normal	196,50000*	7,49555	,000	180,5236	212,4764
		Kelompok sakit	32,75000*	7,49555	,001	16,7736	48,7264
		Kelompok pembanding	56,75000*	7,49555	,000	40,7736	72,7264
		Kelompok FEADSN 1	33,50000*	7,49555	,000	17,5236	49,4764
	Kadar gula darah hari ke-14	Kelompok sakit	-186,00000*	6,90592	,000	-200,7196	-171,2804
		Kelompok pembanding	-147,25000*	6,90592	,000	-161,9696	-132,5304
		Kelompok FEADSN 1	-69,50000*	6,90592	,000	-84,2196	-54,7804
		Kelompok FEADSN 2	-58,50000*	6,90592	,000	-73,2196	-43,7804
	Kelompok sakit	Kelompok Normal	186,00000*	6,90592	,000	171,2804	200,7196

		Kelompok pembanding	38,75000*	6,90592	,000	24,0304	53,4696
		Kelompok FEADSN 1	116,50000*	6,90592	,000	101,7804	131,2196
		Kelompok FEADSN 2	127,50000*	6,90592	,000	112,7804	142,2196
	Kelompok pembanding	Kelompok Normal	147,25000*	6,90592	,000	132,5304	161,9696
		Kelompok sakit	-38,75000*	6,90592	,000	-53,4696	-24,0304
		Kelompok FEADSN 1	77,75000*	6,90592	,000	63,0304	92,4696
		Kelompok FEADSN 2	88,75000*	6,90592	,000	74,0304	103,4696
	Kelompok FEADSN 1	Kelompok Normal	69,50000*	6,90592	,000	54,7804	84,2196
		Kelompok sakit	-116,50000*	6,90592	,000	-131,2196	-101,7804
		Kelompok pembanding	-77,75000*	6,90592	,000	-92,4696	-63,0304
		Kelompok FEADSN 2	11,00000	6,90592	,132	-3,7196	25,7196
	Kelompok FEADSN 2	Kelompok Normal	58,50000*	6,90592	,000	43,7804	73,2196
		Kelompok sakit	-127,50000*	6,90592	,000	-142,2196	-112,7804
		Kelompok pembanding	-88,75000*	6,90592	,000	-103,4696	-74,0304
		Kelompok FEADSN 1	-11,00000	6,90592	,132	-25,7196	3,7196
	Kadar gula darah hari ke-28	Kelompok sakit	-214,75000*	7,38015	,000	-230,4804	-199,0196
		Kelompok pembanding	-153,00000*	7,38015	,000	-168,7304	-137,2696
		Kelompok FEADSN 1	-18,50000*	7,38015	,024	-34,2304	-2,7696
		Kelompok FEADSN 2	-14,50000	7,38015	,068	-30,2304	1,2304

Kelompok sakit	Kelompok Normal	214,75000*	7,38015	,000	199,0196	230,4804
	Kelompok pembanding	61,75000*	7,38015	,000	46,0196	77,4804
	Kelompok FEADSN 1	196,25000*	7,38015	,000	180,5196	211,9804
	Kelompok FEADSN 2	200,25000*	7,38015	,000	184,5196	215,9804
Kelompok pembanding	Kelompok Normal	153,00000*	7,38015	,000	137,2696	168,7304
	Kelompok sakit	-61,75000*	7,38015	,000	-77,4804	-46,0196
	Kelompok FEADSN 1	134,50000*	7,38015	,000	118,7696	150,2304
	Kelompok FEADSN 2	138,50000*	7,38015	,000	122,7696	154,2304
Kelompok FEADSN 1	Kelompok Normal	18,50000*	7,38015	,024	2,7696	34,2304
	Kelompok sakit	-196,25000*	7,38015	,000	-211,9804	-180,5196
	Kelompok pembanding	-134,50000*	7,38015	,000	-150,2304	-118,7696
	Kelompok FEADSN 2	4,00000	7,38015	,596	-11,7304	19,7304
Kelompok FEADSN 2	Kelompok Normal	14,50000	7,38015	,068	-1,2304	30,2304
	Kelompok sakit	-200,25000*	7,38015	,000	-215,9804	-184,5196
	Kelompok pembanding	-138,50000*	7,38015	,000	-154,2304	-122,7696
	Kelompok FEADSN 1	-4,00000	7,38015	,596	-19,7304	11,7304

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

Lampiran 11 Hasil Pengukuran Kadar Kolesterol Total

Kelompok	Tikus ke-	Kadar kolesterol total (mg/dL)	
		H3	H28
Normal	T1	38	29
	T2	30	38
	T3	28	28
	T4	34	32
	Rata-rata	32,25 ± 4,17	31,75 ± 4,70
Sakit	T1	115	137
	T2	97	126
	T3	90	86
	T4	91	84
	Rata-rata	98,18 ± 11,57	108,23 ± 27,15
Pembanding Simvastatin 10mg	T1	81	48
	T2	97	43
	T3	94	42
	T4	85	32
	Rata-rata	89,10 ± 7,42	41,18 ± 6,66
FEADSN 2 100mg/kg BB	T1	64,00	48,70
	T2	79,10	55,40
	T3	86,70	43,90
	T4	81,20	45,90
	Rata-rata	77,75 ± 9,71	48,48 ± 5,01
FEADSN 2 150mg/kg BB	T1	70,5	35,9
	T2	88,3	49,4
	T3	76,2	51
	T4	81,3	46,8

	Rata-rata	79,07 ± 7,56	45,77 ± 6,80
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Lampiran 12 Hasil pengukuran kadar trigliserida

Kelompok	Tikus ke-	Kadar trigliserida (mg/dL)	
		H3	H28
Normal	T1	38	29
	T2	30	38
	T3	28	28
	T4	34	32
	Rata-rata	33,80 ± 8,16	39,40 ± 3,34
Sakit	T1	115	137
	T2	97	126
	T3	90	86
	T4	91	84
	Rata-rata	106,85 ± 19,97	105,05 ± 12,28
Pembanding Simvastatin 10mg	T1	81	48
	T2	97	43
	T3	94	42
	T4	85	32
	Rata-rata	95,43 ± 18,72	42,90 ± 14,28
FEADSN 2 100mg/kg BB	T1	64,00	48,70
	T2	79,10	55,40
	T3	86,70	43,90
	T4	81,20	45,90
	Rata-rata	99,97 ± 17,72	52,65 ± 6,41
FEADSN 2 150mg/kg BB	T1	70,5	35,9
	T2	88,3	49,4

	T3	76,2	51
	T4	81,3	46,8
	Rata-rata	92,925 ± 19,44	47,075 ± 6,10

Lampiran 13 Hasil pengukuran kadar HDL

Kelompok	Tikus ke-	Kadar HDL (mg/dL)	
		H3	H28
Normal	T1	16,0	19,4
	T2	25,0	23,9
	T3	19,8	16,1
	T4	22,1	16,2
	Rata-rata	20,73 ± 3,80	18,90 ± 3,67
Sakit	T1	20,7	15,3
	T2	14,3	13,7
	T3	15,3	16,2
	T4	19,3	14,6
	Rata-rata	17,40 ± 3,80	14,95 ± 1,06
Pembanding Simvastatin 10mg	T1	13,5	9,5
	T2	16,2	13,7
	T3	13,9	14,3
	T4	9,7	24,3
	Rata-rata	13,33 ± 2,69	15,45 ± 6,27
FEADSN 1 100mg/kg BB	T1	18,4	19,1
	T2	15,2	17,9
	T3	17,9	18,3
	T4	10,3	13,3
	Rata-rata	15,45 ± 3,71	17,15 ± 2,61

FEADSN 2 150mg/kg BB	T1	17,9	16,7
	T2	16,5	17,7
	T3	15,8	18,5
	T4	9,0	10,3
	Rata-rata	14,80 ± 1,98	15,80 ± 3,74

Lampiran 14 Hasil pengukuran kadar LDL

Kelompok	Tikus ke-	Kadar LDL (mg/dL)	
		H3	H28
Normal	T1	10,5	11,8
	T2	8,4	17,4
	T3	16,1	10,9
	T4	25,0	19,3
	Rata-rata	14,98 ± 7,42	14,85 ± 4,11
Sakit	T1	70,7	98,1
	T2	66,7	91,7
	T3	50,3	45,2
	T4	49,9	45,9
	Rata-rata	59,41 ± 10,87	70,23 ± 28,62
Pembanding Simvastatin 10mg	T1	48,2	28,0
	T2	66,5	22,6
	T3	58,9	16,0
	T4	53,1	2,0
	Rata-rata	56,69 ± 7,85	17,15 ± 11,21
FEADSN 1 100mg/kg BB	T1	22,7	17,8
	T2	41,4	26,1
	T3	49,4	16,1

FEADSN 2 150mg/kg BB	T4	55,7	23,2
	Rata-rata	42,31 ± 14,29	20,80 ± 4,66
	T1	33,5	9,8
	T2	55,3	22,1
	T3	45,4	24,6
	T4	48,5	25,7
	Rata-rata	45,69 ± 9,10	20,56 ± 7,32

Lampiran 15 Analisis Statik Kolesterol total

1. Test homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Kadar Kolesterol total hari ke-3	Based on Mean	,682	4	15	,615
	Based on Median	,313	4	15	,865
	Based on Median and with adjusted df	,313	4	7,633	,861
	Based on trimmed mean	,568	4	15	,690
Kadar Kolesterol total hari ke-28	Based on Mean	22,597	4	15	,000
	Based on Median	15,661	4	15	,000
	Based on Median and with adjusted df	15,661	4	12,575	,000
	Based on trimmed mean	21,768	4	15	,000

2. Anova

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Kadar Kolesterol total hari ke-3	Between Groups	10293,508	4	2573,377	35,569	,000
	Within Groups	1085,238	15	72,349		
	Total	11378,746	19			
Kadar Kolesterol total hari ke-28	Between Groups	14771,255	4	3692,814	21,023	,000
	Within Groups	2634,825	15	175,655		
	Total	17406,080	19			

3. Multiple comparison

Multiple Comparisons

LSD

Dependent Variable	(I) kelompok tikus	(J) kelompok tikus	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Kadar Kolesterol total hari ke-3	Normal	Sakit	-65,75000*	6,01453	,000	-78,5697	-52,9303
		Pembanding	-56,75000*	6,01453	,000	-69,5697	-43,9303
		FEADSN 1	-45,25000*	6,01453	,000	-58,0697	-32,4303
		FEADSN 2	-46,57500*	6,01453	,000	-59,3947	-33,7553
	Sakit	Normal	65,75000*	6,01453	,000	52,9303	78,5697
		Pembanding	9,00000	6,01453	,155	-3,8197	21,8197
		FEADSN 1	20,50000*	6,01453	,004	7,6803	33,3197
		FEADSN 2	19,17500*	6,01453	,006	6,3553	31,9947
	Pembanding	Normal	56,75000*	6,01453	,000	43,9303	69,5697
		Sakit	-9,00000	6,01453	,155	-21,8197	3,8197
		FEADSN 1	11,50000	6,01453	,075	-1,3197	24,3197
		FEADSN 2	10,17500	6,01453	,111	-2,6447	22,9947
	FEADSN 1	Normal	45,25000*	6,01453	,000	32,4303	58,0697
		Sakit	-20,50000*	6,01453	,004	-33,3197	-7,6803
		Pembanding	-11,50000	6,01453	,075	-24,3197	1,3197
		FEADSN 2	-1,32500	6,01453	,829	-14,1447	11,4947
	FEADSN 2	Normal	46,57500*	6,01453	,000	33,7553	59,3947
		Sakit	-19,17500*	6,01453	,006	-31,9947	-6,3553
		Pembanding	-10,17500	6,01453	,111	-22,9947	2,6447
		FEADSN 1	1,32500	6,01453	,829	-11,4947	14,1447
Kadar Kolesterol total hari ke-28	Normal	Sakit	-76,50000*	9,37163	,000	-96,4752	-56,5248
		Pembanding	-9,50000	9,37163	,327	-29,4752	10,4752
		FEADSN 1	-16,72500	9,37163	,095	-36,7002	3,2502
		FEADSN 2	-14,02500	9,37163	,155	-34,0002	5,9502
	Sakit	Normal	76,50000*	9,37163	,000	56,5248	96,4752
		Pembanding	67,00000*	9,37163	,000	47,0248	86,9752
		FEADSN 1	59,77500*	9,37163	,000	39,7998	79,7502
		FEADSN 2	62,47500*	9,37163	,000	42,4998	82,4502
	Pembanding	Normal	9,50000	9,37163	,327	-10,4752	29,4752
		Sakit	-67,00000*	9,37163	,000	-86,9752	-47,0248
		FEADSN 1	-7,22500	9,37163	,453	-27,2002	12,7502
		FEADSN 2	-4,52500	9,37163	,636	-24,5002	15,4502

FEADSN 1	Normal	16,72500	9,37163	,095	-3,2502	36,7002
	Sakit	-59,77500*	9,37163	,000	-79,7502	-39,7998
	Pembanding	7,22500	9,37163	,453	-12,7502	27,2002
	FEADSN 2	2,70000	9,37163	,777	-17,2752	22,6752
FEADSN 2	Normal	14,02500	9,37163	,155	-5,9502	34,0002
	Sakit	-62,47500*	9,37163	,000	-82,4502	-42,4998
	Pembanding	4,52500	9,37163	,636	-15,4502	24,5002
	FEADSN 1	-2,70000	9,37163	,777	-22,6752	17,2752

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

Lampiran 16 Analisis statik trigliserida

1. Test homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Kadar trigliserida hari ke-3	Based on Mean	,571	4	15	,688
	Based on Median	,321	4	15	,860
	Based on Median and with adjusted df	,321	4	11,203	,858
	Based on trimmed mean	,529	4	15	,716
Kadar trigliserida hari ke-28	Based on Mean	6,708	4	15	,003
	Based on Median	6,433	4	15	,003
	Based on Median and with adjusted df	6,433	4	8,927	,010
	Based on trimmed mean	6,704	4	15	,003

2. Anova

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Kadar trigliserida hari ke-3	Between Groups	14013,837	4	3503,459	11,633	,000
	Within Groups	4517,475	15	301,165		
	Total	18531,312	19			
Kadar trigliserida hari ke-28	Between Groups	11702,340	4	2925,585	32,790	,000
	Within Groups	1338,338	15	89,223		
	Total	13040,677	19			

3. Multiple comparisons

Multiple Comparisons

LSD

Dependent Variable	(I) Kelompok tikus	(J) Kelompok tikus	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Kadar trigliserida hari ke-3	Normal	Sakit	-73,25000*	12,27121	,000	-99,4055	-47,0945
		Pembanding	-61,70000*	12,27121	,000	-87,8555	-35,5445
		FEADSN 1	-66,22500*	12,27121	,000	-92,3805	-40,0695
		FEADSN 2	-59,17500*	12,27121	,000	-85,3305	-33,0195
	Sakit	Normal	73,25000*	12,27121	,000	47,0945	99,4055
		Pembanding	11,55000	12,27121	,362	-14,6055	37,7055
		FEADSN 1	7,02500	12,27121	,575	-19,1305	33,1805
		FEADSN 2	14,07500	12,27121	,269	-12,0805	40,2305
	Pembanding	Normal	61,70000*	12,27121	,000	35,5445	87,8555
		Sakit	-11,55000	12,27121	,362	-37,7055	14,6055
		FEADSN 1	-4,52500	12,27121	,717	-30,6805	21,6305
		FEADSN 2	2,52500	12,27121	,840	-23,6305	28,6805
	FEADSN 1	Normal	66,22500*	12,27121	,000	40,0695	92,3805
		Sakit	-7,02500	12,27121	,575	-33,1805	19,1305
		Pembanding	4,52500	12,27121	,717	-21,6305	30,6805
		FEADSN 2	7,05000	12,27121	,574	-19,1055	33,2055
	FEADSN 2	Normal	59,17500*	12,27121	,000	33,0195	85,3305
		Sakit	-14,07500	12,27121	,269	-40,2305	12,0805
		Pembanding	-2,52500	12,27121	,840	-28,6805	23,6305
		FEADSN 1	-7,05000	12,27121	,574	-33,2055	19,1055
Kadar trigliserida hari ke-28	Normal	Sakit	-65,50000*	6,67917	,000	-79,7363	-51,2637
		Pembanding	-3,40000	6,67917	,618	-17,6363	10,8363
		FEADSN 1	-13,15000	6,67917	,068	-27,3863	1,0863
		FEADSN 2	-7,57500	6,67917	,275	-21,8113	6,6613
	Sakit	Normal	65,50000*	6,67917	,000	51,2637	79,7363
		Pembanding	62,10000*	6,67917	,000	47,8637	76,3363
		FEADSN 1	52,35000*	6,67917	,000	38,1137	66,5863
		FEADSN 2	57,92500*	6,67917	,000	43,6887	72,1613
	Pembanding	Normal	3,40000	6,67917	,618	-10,8363	17,6363
		Sakit	-62,10000*	6,67917	,000	-76,3363	-47,8637
		FEADSN 1	-9,75000	6,67917	,165	-23,9863	4,4863
		FEADSN 2	-4,17500	6,67917	,541	-18,4113	10,0613
	FEADSN 1	Normal	13,15000	6,67917	,068	-1,0863	27,3863
		Sakit	-52,35000*	6,67917	,000	-66,5863	-38,1137

FEADSN 2	Pembanding	9,75000	6,67917	,165	-4,4863	23,9863
	FEADSN 2	5,57500	6,67917	,417	-8,6613	19,8113
	Normal	7,57500	6,67917	,275	-6,6613	21,8113
	Sakit	-57,92500*	6,67917	,000	-72,1613	-43,6887
	Pembanding	4,17500	6,67917	,541	-10,0613	18,4113
	FEADSN 1	-5,57500	6,67917	,417	-19,8113	8,6613

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

Lampiran 17 Analisis Kadar HDL

1. Test Homogenitas

Test of Homogeneity of Variances

			Levene			
			Statistic	df1	df2	Sig.
sebelum perlakuan	diberi	Based on Mean	,243	4	15	,909
		Based on Median	,157	4	15	,957
		Based on Median and with adjusted df	,157	4	10,216	,955
		Based on trimmed mean	,228	4	15	,918
setelah diberi perlakuan		Based on Mean	1,552	4	15	,238
		Based on Median	,643	4	15	,640
		Based on Median and with adjusted df	,643	4	8,268	,647
		Based on trimmed mean	1,379	4	15	,288

2. Anova

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
sebelum diberi perlakuan	Between Groups	130,423	4	32,606	2,686	,072
	Within Groups	182,065	15	12,138		
	Total	312,488	19			
setelah diberi perlakuan	Between Groups	40,660	4	10,165	,680	,617
	Within Groups	224,330	15	14,955		
	Total	264,990	19			

3. Multiple comparisons

Multiple Comparisons

LSD

Dependent Variable	(I) Kelompok tikus HDL	(J) Kelompok tikus HDL	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
sebelum diberi perlakuan	Normal	Sakit	3,32500	2,46350	,197	-1,9258	8,5758
		Simvastatin	7,40000*	2,46350	,009	2,1492	12,6508
		FEADSN 1	5,27500*	2,46350	,049	,0242	10,5258
		FEADSN 2	5,92500*	2,46350	,030	,6742	11,1758
	Sakit	Normal	-3,32500	2,46350	,197	-8,5758	1,9258
		Simvastatin	4,07500	2,46350	,119	-1,1758	9,3258
		FEADSN 1	1,95000	2,46350	,441	-3,3008	7,2008
		FEADSN 2	2,60000	2,46350	,308	-2,6508	7,8508
	Simvastatin	Normal	-7,40000*	2,46350	,009	-12,6508	-2,1492
		Sakit	-4,07500	2,46350	,119	-9,3258	1,1758
		FEADSN 1	-2,12500	2,46350	,402	-7,3758	3,1258
		FEADSN 2	-1,47500	2,46350	,558	-6,7258	3,7758
	FEADSN 1	Normal	-5,27500*	2,46350	,049	-10,5258	-,0242
		Sakit	-1,95000	2,46350	,441	-7,2008	3,3008
		Simvastatin	2,12500	2,46350	,402	-3,1258	7,3758
		FEADSN 2	,65000	2,46350	,795	-4,6008	5,9008
	FEADSN 2	Normal	-5,92500*	2,46350	,030	-11,1758	-,6742
		Sakit	-2,60000	2,46350	,308	-7,8508	2,6508
		Simvastatin	1,47500	2,46350	,558	-3,7758	6,7258
		FEADSN 1	-,65000	2,46350	,795	-5,9008	4,6008
setelah diberi perlakuan	Normal	Sakit	3,95000	2,73453	,169	-1,8785	9,7785
		Simvastatin	3,45000	2,73453	,226	-2,3785	9,2785
		FEADSN 1	1,75000	2,73453	,532	-4,0785	7,5785
		FEADSN 2	3,10000	2,73453	,275	-2,7285	8,9285
	Sakit	Normal	-3,95000	2,73453	,169	-9,7785	1,8785
		Simvastatin	-,50000	2,73453	,857	-6,3285	5,3285
		FEADSN 1	-2,20000	2,73453	,434	-8,0285	3,6285
		FEADSN 2	-,85000	2,73453	,760	-6,6785	4,9785
	Simvastatin	Normal	-3,45000	2,73453	,226	-9,2785	2,3785
		Sakit	,50000	2,73453	,857	-5,3285	6,3285

	FEADSN 1	FEADSN 1	-1,70000	2,73453	,543	-7,5285	4,1285
		FEADSN 2	-,35000	2,73453	,900	-6,1785	5,4785
	FEADSN 1	Normal	-1,75000	2,73453	,532	-7,5785	4,0785
		Sakit	2,20000	2,73453	,434	-3,6285	8,0285
		Simvastatin	1,70000	2,73453	,543	-4,1285	7,5285
	FEADSN 2	FEADSN 2	1,35000	2,73453	,629	-4,4785	7,1785
		Normal	-3,10000	2,73453	,275	-8,9285	2,7285
		Sakit	,85000	2,73453	,760	-4,9785	6,6785
		Simvastatin	,35000	2,73453	,900	-5,4785	6,1785
		FEADSN 1	-1,35000	2,73453	,629	-7,1785	4,4785

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

Lampiran 18 Analisis kadar LDL

1. Test Homogenitas

Test of Homogeneity of Variances

		Levene			
		Statistic	df1	df2	Sig.
Kadar LDL hari ke-3 sebelum diberi perlakuan	Based on Mean	,728	4	15	,587
	Based on Median	,626	4	15	,651
	Based on Median and with adjusted df	,626	4	8,425	,657
	Based on trimmed mean	,726	4	15	,588
Kadar LDL hari ke-28 setelah diberi perlakuan	Based on Mean	25,439	4	15	,000
	Based on Median	17,530	4	15	,000
	Based on Median and with adjusted df	17,530	4	7,712	,001
	Based on trimmed mean	24,570	4	15	,000

2. Anova

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Kadar LDL hari ke-3 sebelum diberi perlakuan	Between Groups	4977,323	4	1244,331	11,896	,000
	Within Groups	1569,015	15	104,601		
	Total	6546,338	19			
Kadar LDL hari ke-28 setelah diberi perlakuan	Between Groups	8713,528	4	2178,382	10,502	,000
	Within Groups	3111,458	15	207,431		
	Total	11824,986	19			

3. Multiple Comparisons

Multiple Comparisons

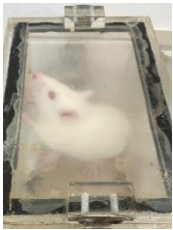
LSD

Dependent Variable	(I) Kelompok tikus LDL	(J) Kelompok tikus LDL	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Kadar LDL hari ke-3 sebelum diberi perlakuan	Normal	Sakit	-44,40000*	7,23191	,000	-59,8144	-28,9856
		Simvastatin	-41,67500*	7,23191	,000	-57,0894	-26,2606
		FEADSN 1	-27,30000*	7,23191	,002	-42,7144	-11,8856
		FEADSN 2	-30,67500*	7,23191	,001	-46,0894	-15,2606
	Sakit	Normal	44,40000*	7,23191	,000	28,9856	59,8144
		Simvastatin	2,72500	7,23191	,712	-12,6894	18,1394
		FEADSN 1	17,10000*	7,23191	,032	1,6856	32,5144
		FEADSN 2	13,72500	7,23191	,077	-1,6894	29,1394
	Simvastatin	Normal	41,67500*	7,23191	,000	26,2606	57,0894
		Sakit	-2,72500	7,23191	,712	-18,1394	12,6894
		FEADSN 1	14,37500	7,23191	,065	-1,0394	29,7894
		FEADSN 2	11,00000	7,23191	,149	-4,4144	26,4144
	FEADSN 1	Normal	27,30000*	7,23191	,002	11,8856	42,7144

Kadar LDL hari ke-28 setelah diberi perlakuan	FEADSN 2	Sakit	-17,10000*	7,23191	,032	-32,5144	-1,6856
		Simvastatin	-14,37500	7,23191	,065	-29,7894	1,0394
		FEADSN 2	-3,37500	7,23191	,647	-18,7894	12,0394
		Normal	30,67500*	7,23191	,001	15,2606	46,0894
		Sakit	-13,72500	7,23191	,077	-29,1394	1,6894
		Simvastatin	-11,00000	7,23191	,149	-26,4144	4,4144
		FEADSN 1	3,37500	7,23191	,647	-12,0394	18,7894
	Sakit	Normal	55,37500*	10,18407	,000	33,6682	77,0818
		Simvastatin	53,07500*	10,18407	,000	31,3682	74,7818
		FEADSN 1	49,42500*	10,18407	,000	27,7182	71,1318
		FEADSN 2	49,67500*	10,18407	,000	27,9682	71,3818
		Normal	2,30000	10,18407	,824	-19,4068	24,0068
		Sakit	-53,07500*	10,18407	,000	-74,7818	-31,3682
		FEADSN 1	-3,65000	10,18407	,725	-25,3568	18,0568
	Simvastatin	FEADSN 2	-3,40000	10,18407	,743	-25,1068	18,3068
		Normal	5,95000	10,18407	,568	-15,7568	27,6568
		Sakit	-49,42500*	10,18407	,000	-71,1318	-27,7182
		Simvastatin	3,65000	10,18407	,725	-18,0568	25,3568
		FEADSN 2	,25000	10,18407	,981	-21,4568	21,9568
		Normal	5,70000	10,18407	,584	-16,0068	27,4068
		Sakit	-49,67500*	10,18407	,000	-71,3818	-27,9682
	FEADSN 2	Simvastatin	3,40000	10,18407	,743	-18,3068	25,1068
		FEADSN 1	-,25000	10,18407	,981	-21,9568	21,4568

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

Lampiran 19 Dokumentasi Pengujian Aktivitas Hiperlipid

Tanaman sambung nyawa 	Fraksi sambung nyawa dan binahong 	pelarutan fraksi etil asetat 	Aklimitasi tikus 
streptozotosin 	Pembuatan larutan STZ 	larutan STZ 	Cek PH STZ 
Induksi streptozotosin terhadap tikus 	Pengoralan tikus 	Test KGD pada ekor tikus 	Hasil test KGD sebelum diinduksi STZ 
Hasil KGD setelah diinduksi STZ 	Anestesi diberi gas co2 	pengambilan darah dari mata 	Pemisahan serum dengan darah 
pembedahan tikus 	Organ Aorta 	Preparasi sampel 	Pengukuran kadar lipid dengan microlab 300 

Lampiran 20 *Lapiran Curriculum Vitae (CV)*



EKA RAHMAT NUGRAHA

Alamat: Kelurahan Setia Negara, kampung Condong RT 02 RW 01
Kec Cibeureum Kota Tasikmalaya Jawa Barat

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PROFIL PRIBADI

Lulusan baru Sarjana Farmasi. Memiliki jiwa leadership yang tinggi, siap bekerja dibawah tekanan, Memiliki pengalaman bergabung di beberapa organisasi dan bidang umum. Mencari peluang yang memberikan diri semakin berkembang.

KEAHLIAN

Public Speaking	Event Handle	Bekerjasama dalam Team	Desain Grafis
Ms. Office	Penyuluh Kesehatan	Leadership	Administrator

RIWAYAT PENDIDIKAN

SEKOLAH MENENGAH ATAS (SMA)

SMA NEGERI 1 Jatiwaras 2017-2020

Perguruan Tinggi

Universitas Bhakti Kencana 2020 - 2024

Sarjana Farmasi

Indeks Prestasi Kumulatif (IPK): 3,26

RIWAYAT ORGANISASI

KETUA Majelis Perwakilan Kelas (MPK) 2018 – 2019

- ketua Majelis perwakilan kelas SMA NEGERI 1 Jatiwaras

KETUA COMPUTER CLUB 2018 - 2019

- ketua Computer Club SMA NEGERI 1 Jatiwaras

KETUA PELATIH LAPANGAN PASKIBRA 2018 - 2019

- Ketua Pelatih Lapangan Paskibra Kecamatan Jatiwaras

KETUA PELAKSANA PEKAN OLAHRAGA dan SENI (PORSENI)

- Ketua PELAKSANA PEKAN OLAHRAGA dan SENI (PORSENI) SMA NEGERI 1 Jatiwaras

PERMBERDAYAAN SUMBER DAYA MANUSIA PASKIBRA 2018 - 2019

- PERMBERDAYAAN SUMBER DAYA MANUSIA (PSDM) Paskibra SMA NEGERI 1 Jatiwaras

BENDAHARA PRAMUKA

Bendahara Pramuka SMA NEGERI 1 Jatiwaras 2018 - 2019

ANGGOTA KESEHATAN PASUKAN PASKIBRA

Anggota Kesehatan Pasukan Paskibra Kabupaten Tasikmalaya 2018 - 2019

PENGABDIAN MASYARAKAT

(PANITIA) Mengikuti Pengabdian Masyarakat Mahasiswa dan Dosen mengenai Edukasi Desember 2022

Terapi Non-Farmakologi saat Anak Demam, Batuk dan Pilek ditengah Kekhawatiran Terjadinya Gagal Ginjal Akut Pada Anak.

PELATIHAN

BMS Global Softskill Development Training

Januari 2023

Universitas Bhakti Kencana

KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

Pembimbing Serta	: Dr. apt. Widhya Aigita, M.Si.
Nama Mahasiswa	: Eka Rahmat Nugraha
NPM	: 201FF03165
Bidang Ilmu	: Farmakologi dan Farmasi Klinis (FFK)

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Catatan: Kartu ini harus dibawa setiap kali melakukan bimbingan dan harus diisi oleh dosen pembimbing.

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