

LAMPIRAN

Lampiran 1. Surat Persetujuan Kode Etik Hewan Percobaan



KEMENTERIAN PENDIDIKAN, KEBUDAYAAN,
RISET DAN TEKNOLOGI
UNIVERSITAS PADJADJARAN
KOMITE ETIK PENELITIAN
RESEARCH ETHICS COMMITTEE
Jl. Prof. Eyckman No. 38, Bandung 40161
Telp. & Fax. 022-2038697 email: kep@unpad.ac.id, website: kep.unpad.ac.id

PERSETUJUAN ETIK
ETHICAL APPROVAL

Nomor: 88/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 thoroughly reviewed proposal for research with animal subjects in reaserach entitled:

"PENGARUH PEMBERIAN EKSTRAK ETANOL DAUN KATE MAS (*EUPHORBIA HETEROPHYLLA* DESF.) TERHADAP PENYAKIT SINDROM METABOLIK"

Nama Peneliti Utama <i>Principal Researcher</i>	:	Habib Nurabdl Wahab Komara
Pembimbing/Peneliti Lain <i>Supervisor/Other Researcher</i>	:	apt. Elis Susilawati, M.Si Dr. apt. Agus sulaeman, 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.

No. Reg.: 2401020012



Ditetapkan di : Bandung
Issued in
Tanggal : 22-01-2024
Date

Ketua,
Chairman,



Prof. Nur Atik, dr, M.Kes., MOHRE., 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 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 dari 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 2. Hasil Determinasi Tanaman Kate Mas

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.19/HB/11/2023.

Herbarium Jatinangor, Laboratorium Taksonomi Tumbuhan, Jurusan Biologi FMIPA UNPAD, dengan ini menerangkan bahwa:
 Nama : Intan Pertiwi
 NIM/NIDN : 201FF03129
 Instansi : Universitas Bhakti Kencana.
 Telah melakukan identifikasi tumbuhan, dengan No. Koleksi: -
 Tanggal Koleksi : 06 Nopember 2023.
 Lokasi : Bandung.

Hasil Identifikasi
 Nama Ilmiah : *Euphorbia heterophylla* Desf.
 Sinonim : *Euphorbia heterophylla* L.
 Nama Lokal : Tanaman Kate Mas
 Suku/Famili : Simaroubaceae

Klasifikasi (Hirarki Taksonomi)
 Kingdom : Plantae
 Divisi : Tracheophyta
 Class : Magnoliopsida
 Ordo : Malpighiales
 Family : Euphorbiaceae
 Genus : *Euphorbia*
 Species : *Euphorbia heterophylla* Desf.

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, 07 Nopember 2023.

Identifikator,

LABORATORIUM TAKSONOMI TUMBUHAN
JURUSAN BIOLOGI FMIPA-UNPAD

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

Lampiran 3. Perhitungan Kadar MDA

Perhitungan kadar MDA dihitung dengan cara sebagai berikut:

Abs : 0,314

$$Y = 0,0031x + 0,0887$$

$$0,314 = 0,0031x + 0,0887$$

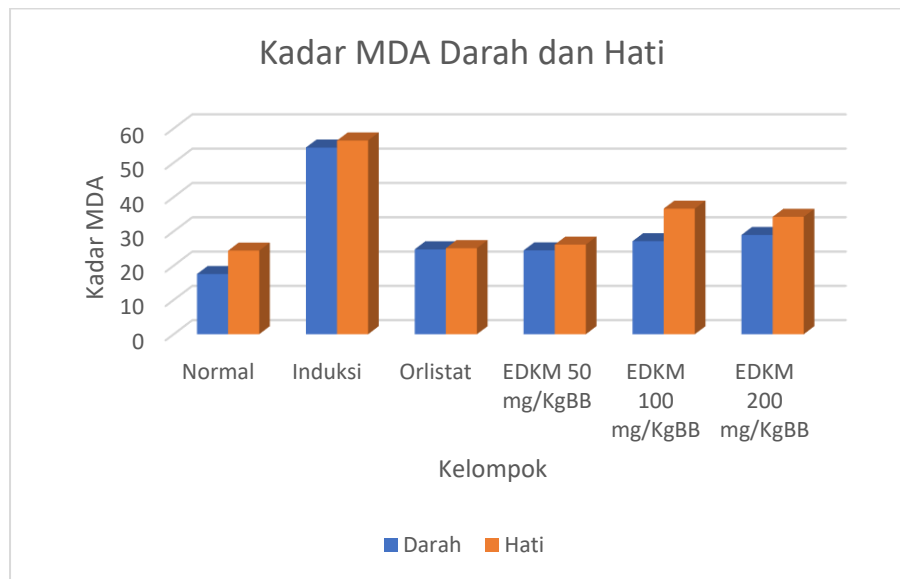
$$0,314 - 0,0887 = 0,0031x$$

$$0,2253 = 0,0037x$$

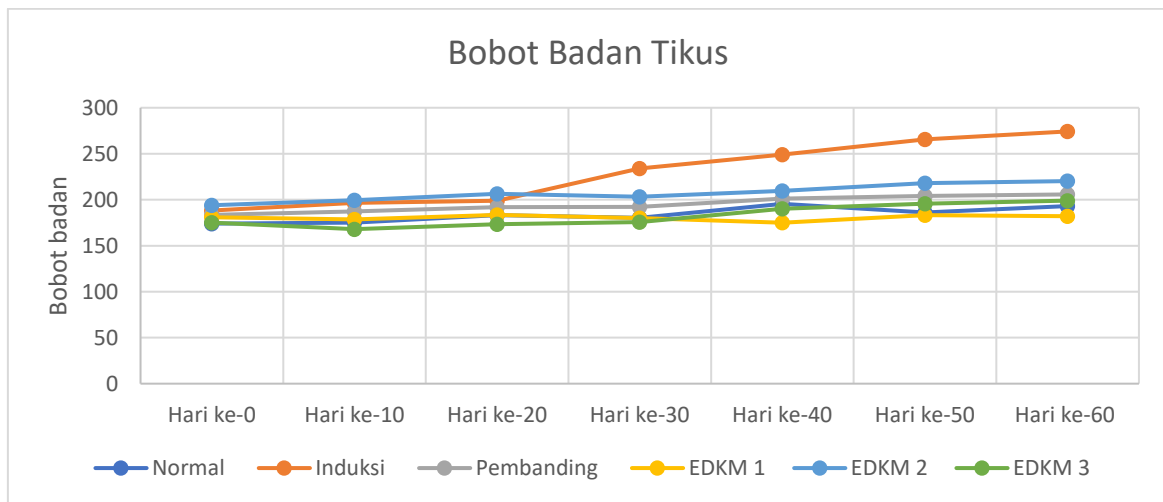
$$\frac{0,2253}{0,0037} = 60,89 \text{ nmol/ml}$$

Kelompok	No	Kadar MDA (nmol/mL)	
		Darah	Hati
Normal	1	17.56	24.37
	2		
	3		
Induksi	1	54.43	56.48
	2		
	3		
Orlistat	1	24.75	25.09
	2		
	3		
EDKM 50 mg/KgBB	1	24.44	26.13
	2		
	3		
EDKM 100 mg/KgBB	1	27.14	36.61
	2		
	3		
EDKM 200 mg/KgBB	1	28.95	34.23
	2		
	3		

Kadar MDA Dari Sampel Darah dan Hati



Lampiran 4. Bobot Berat Badan Tikus



Lampiran 5. Analisis ANOVA dan Post Hoc LSD

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Homogenat_Hati	Between Groups	2239.200	5	447.840	24.528	.000
	Within Groups	219.099	12	18.258		
	Total	2458.299	17			
Serum_Darah	Between Groups	2454.289	5	490.858	17.148	.000
	Within Groups	343.494	12	28.624		
	Total	2797.783	17			

Multiple Comparisons

LSD

Dependent Variable	(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Homogenat_Hati	Normal	Induksi	-32.11667*	3.48886	.000	-39.7182	-24.5151
		Orlistat	-.72000	3.48886	.840	-8.3216	6.8816
		EDKM 50 mg/KgBB	-1.76000	3.48886	.623	-9.3616	5.8416
		EDKM 100 mg/KgBB	-12.24333*	3.48886	.004	-19.8449	-4.6418
		EDKM 200 mg/KgBB	-9.86000*	3.48886	.015	-17.4616	-2.2584
	Induksi	Normal	32.11667*	3.48886	.000	24.5151	39.7182
		Orlistat	31.39667*	3.48886	.000	23.7951	38.9982
		EDKM 50 mg/KgBB	30.35667*	3.48886	.000	22.7551	37.9582
		EDKM 100 mg/KgBB	19.87333*	3.48886	.000	12.2718	27.4749
		EDKM 200 mg/KgBB	22.25667*	3.48886	.000	14.6551	29.8582
	Orlistat	Normal	.72000	3.48886	.840	-6.8816	8.3216
		Induksi	-31.39667*	3.48886	.000	-38.9982	-23.7951
		EDKM 50 mg/KgBB	-1.04000	3.48886	.771	-8.6416	6.5616
		EDKM 100 mg/KgBB	-11.52333*	3.48886	.006	-19.1249	-3.9218
		EDKM 200 mg/KgBB	-9.14000*	3.48886	.022	-16.7416	-1.5384
	EDKM 50 mg/KgBB	Normal	1.76000	3.48886	.623	-5.8416	9.3616
		Induksi	-30.35667*	3.48886	.000	-37.9582	-22.7551
		Orlistat	1.04000	3.48886	.771	-6.5616	8.6416
		EDKM 100 mg/KgBB	-10.48333*	3.48886	.011	-18.0849	-2.8818

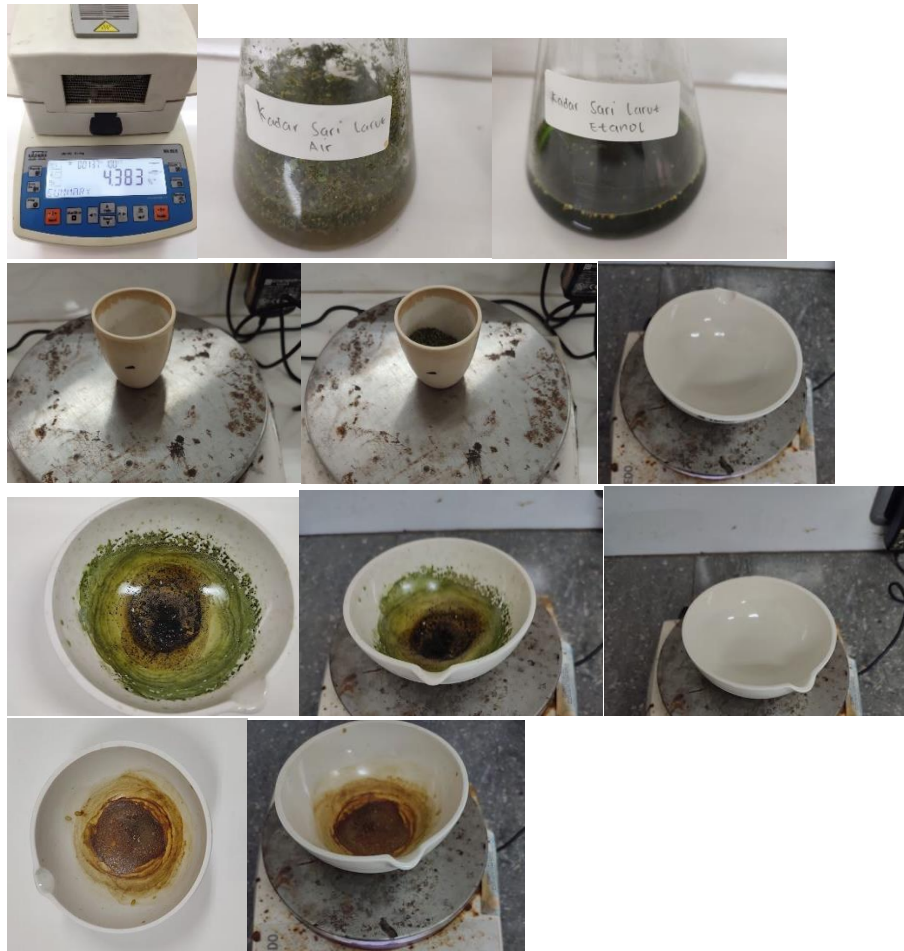
	EDKM 100 mg/KgBB	EDKM 200 mg/KgBB	-8.10000*	3.48886	.039	-15.7016	-.4984
		Normal	12.24333*	3.48886	.004	4.6418	19.8449
		Induksi	-19.87333*	3.48886	.000	-27.4749	-12.2718
		Orlistat	11.52333*	3.48886	.006	3.9218	19.1249
		EDKM 50 mg/KgBB	10.48333*	3.48886	.011	2.8818	18.0849
	EDKM 200 mg/KgBB	EDKM 200 mg/KgBB	2.38333	3.48886	.508	-5.2182	9.9849
		Normal	9.86000*	3.48886	.015	2.2584	17.4616
		Induksi	-22.25667*	3.48886	.000	-29.8582	-14.6551
		Orlistat	9.14000*	3.48886	.022	1.5384	16.7416
		EDKM 50 mg/KgBB	8.10000*	3.48886	.039	.4984	15.7016
		EDKM 100 mg/KgBB	-2.38333	3.48886	.508	-9.9849	5.2182
Serum_Darah	Normal	Induksi	-36.87000*	4.36841	.000	-46.3879	-27.3521
		Orlistat	-7.18667	4.36841	.126	-16.7046	2.3313
		EDKM 50 mg/KgBB	-6.88333	4.36841	.141	-16.4013	2.6346
		EDKM 100 mg/KgBB	-9.58000*	4.36841	.049	-19.0979	-.0621
		EDKM 200 mg/KgBB	-11.38667*	4.36841	.023	-20.9046	-1.8687
	Induksi	Normal	36.87000*	4.36841	.000	27.3521	46.3879
		Orlistat	29.68333*	4.36841	.000	20.1654	39.2013
		EDKM 50 mg/KgBB	29.98667*	4.36841	.000	20.4687	39.5046
		EDKM 100 mg/KgBB	27.29000*	4.36841	.000	17.7721	36.8079
		EDKM 200 mg/KgBB	25.48333*	4.36841	.000	15.9654	35.0013
	Orlistat	Normal	7.18667	4.36841	.126	-2.3313	16.7046
		Induksi	-29.68333*	4.36841	.000	-39.2013	-20.1654
		EDKM 50 mg/KgBB	.30333	4.36841	.946	-9.2146	9.8213
		EDKM 100 mg/KgBB	-2.39333	4.36841	.594	-11.9113	7.1246
		EDKM 200 mg/KgBB	-4.20000	4.36841	.355	-13.7179	5.3179
	EDKM 50 mg/KgBB	Normal	6.88333	4.36841	.141	-2.6346	16.4013
		Induksi	-29.98667*	4.36841	.000	-39.5046	-20.4687
		Orlistat	-.30333	4.36841	.946	-9.8213	9.2146
		EDKM 100 mg/KgBB	-2.69667	4.36841	.549	-12.2146	6.8213
		EDKM 200 mg/KgBB	-4.50333	4.36841	.323	-14.0213	5.0146
	EDKM 100 mg/KgBB	Normal	9.58000*	4.36841	.049	.0621	19.0979
		Induksi	-27.29000*	4.36841	.000	-36.8079	-17.7721
		Orlistat	2.39333	4.36841	.594	-7.1246	11.9113
		EDKM 50 mg/KgBB	2.69667	4.36841	.549	-6.8213	12.2146
		EDKM 200 mg/KgBB	-1.80667	4.36841	.686	-11.3246	7.7113
		Normal	11.38667*	4.36841	.023	1.8687	20.9046

EDKM 200 mg/KgBB	Induksi	-25.48333*	4.36841	.000	-35.0013	-15.9654
	Orlistat	4.20000	4.36841	.355	-5.3179	13.7179
	EDKM 50 mg/KgBB	4.50333	4.36841	.323	-5.0146	14.0213
	EDKM 100 mg/KgBB	1.80667	4.36841	.686	-7.7113	11.3246

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

Lampiran 6. Dokumentasi Penelitian

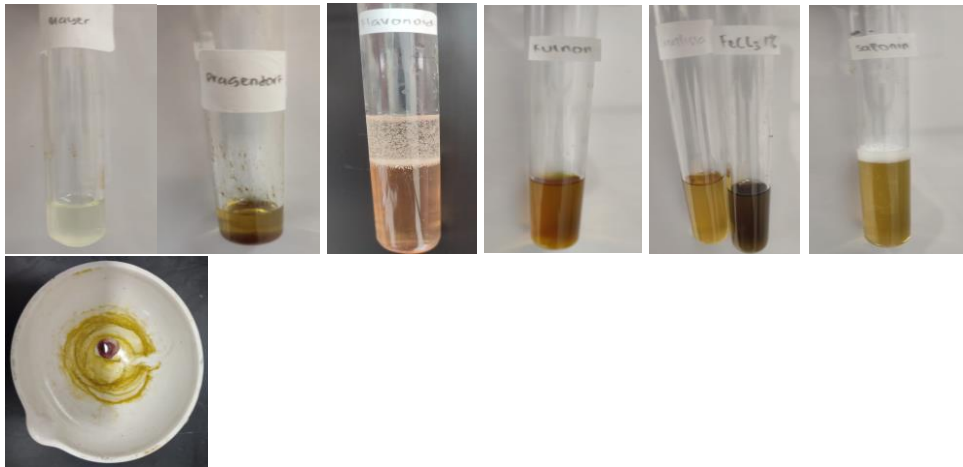
Karakterisasi Simplisia



Pembuatan Ekstrak Daun Kate Mas



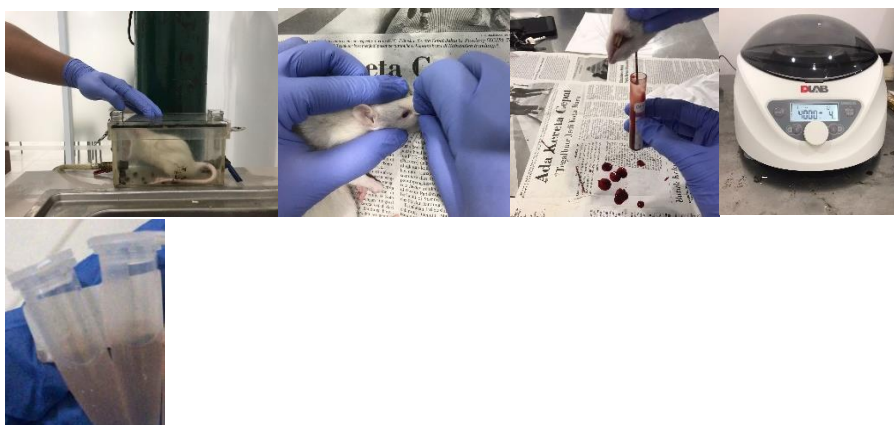
Skrinning Fitokimia



Pembuatan Pakan



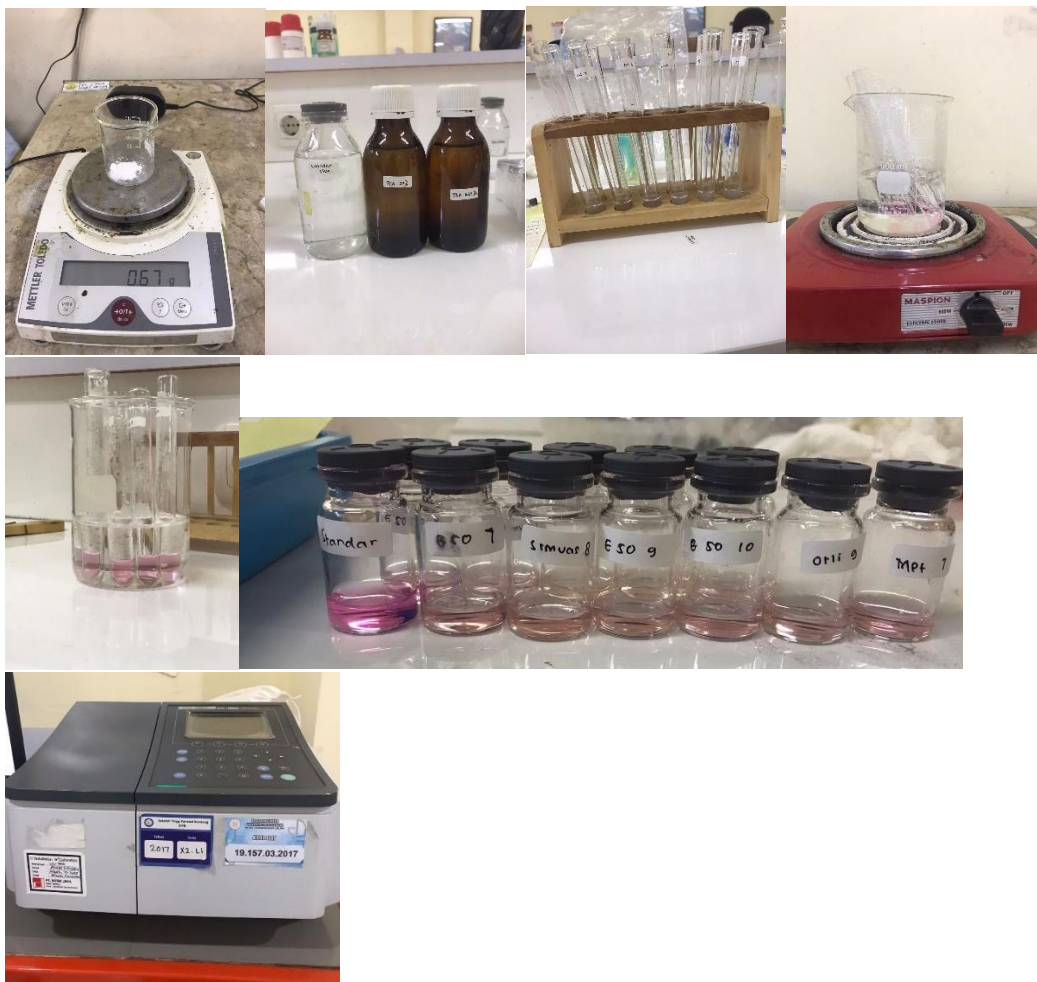
Pengambilan Darah Dari Mata



Pembuatan Homogenat Hati



Pengujian Kadar MDA



Lampiran 7. Pemeriksaan Plagiarisme

[turnitin] Sri Mulyani_Skripsi			
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Lampiran 8. Kartu Bimbingan

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Lampiran 9. CV



SRI MULYANI

DATA PRIBADI

Nama : Sri Mulyani
Alamat : Kp. Tegal Ilat Rt.02/Rw.07
Telepon : 082116573705
Email : msri17785@gmail.com
Profil : Saya Sri Mulyani mahasiswa tingkat akhir yang berkuliah di Universitas Bhakti Kencana Jurusan Farmasi

PENDIDIKAN

(2017-2020)
SMK BHAKTI KENCANA SOREANG

(2020-2024)
UNIVERSITAS BHAKTI KENCANA

PENGALAMAN KERJA

2019
Melaksanakan Praktek Kerja Lapangan selama 2 bulan di Apotek Mandalasari