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Lampiran 2. Kartu Bimbingan Tugas Akhir

Pembimbing utama : Dr.apr Winasih Rachmawati,M.Si

Periode TA 1



Fakultas Farmasi
Universitas
Bhakti Kencana

Dok. No 02.64.00/FRM-03/AKD-SPMI

Jl. Soekarno Hatta No. 104 Bandung
Telp. 022 7830 7600 / 7830 7601
www.bk.ac.id contact@bk.ac.id

KARTU BIMBINGAN TUGAS AKHIR

Pembimbing Utama	: Dr. apt. Winasih rachmawati, M.Si.
Nama Mahasiswa	: Ardenna Aurora
NPM	: 201705051
Bidang Ilmu	: Analisis farmasi dan kimia medisinal

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1.	9 - Oktober 2023	17.00	200M	diskusi terkait tema	
2.	13 - Oktober 2023	08.20	WA	pengajuan judul proposal	
3.	9 - November 2023	12.30	It. 3	Bimbingan bab 1	
4.	15 - NOV - 2023	16.53	lab. It. 3	revisi bab 1	
5.	4 - Des - 2023	11.21	It. 3	bimbingan bab 2.	
6.	22 - Des - 2023	13.00	It. 3.	revisi bab 2.	
7.	9 - Jan - 2024	9.20	It. 3.	revisi bab 2 dan bab 3.	
8.	11 - Jan - 2024	10.48	It. 3.	revisi bab 2 dan bab 3.	
9.					
10.					

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

Periode TA 2



No. Dok. 02.64.00/FRM-03/AKD-SPMI



KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

Pembimbing Utama	: Dr.apl.Winasih Rachmawati,M.Si
Nama Mahasiswa	: Ardentia Aurora
NPM	: 201FF03051
Bidang Ilmu	: Analisis Farmasi dan Kimia Medisinal (AFKM)

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1.	Selasa 30 - 04 - 2024	14.45	Lt.3	Laporan kemajuan TA II	
2.	17 - 05 - 2024	13.28	Lt.3	Bimbingan uji kesesuaian sistem	
3.	22 - 05 - 2024	11.50	Lt.3	Bimbingan uji kesesuaian sistem	
4.	5 - 06 - 2024	12.40	Lt.3	Bimbingan uji kesesuaian sistem	
5.	7 - 06 - 2024	16.20	online	Bimbingan uji kesesuaian sistem	
6.	10 - 06 - 2024	11.00	Lt.3	Bimbingan uji kesesuaian sistem	
7.	14 - 06 - 2024	13.00	Lt.3	Bimbingan uji kesesuaian sistem	
8.	19 - 06 - 2024	10.45	online	Bimbingan prosedur	
9.	4 - 07 - 2024	16.31	online	Bimbingan prosedur	
10	5 - 07 - 2024	13.00	Lt.2	Bimbingan prosedur	
11	6 - 07 - 2024	15.40	online	Bimbingan prosedur	
12	7 - 07 - 2024	12.13	online	Bimbingan prosedur	
13	8 - 07 - 2024	18.50	online	Bimbingan prosedur	
14	9 - 07 - 2024	09.30	Lab instrumen	Bimbingan prosedur	
15	10 - 07 - 2024	13.45	Lt. 3	Bimbingan hasil	
16	11 - 07 - 2024			Bimbingan hasil dan pembahasan.	
17	12 - 07 - 2024				

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

Pembimbing serta : Emma Emmawati, M.Si

Periode TA 1



Fakultas Farmasi
Universitas
Bhakti Kencana

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KARTU BIMBINGAN TUGAS AKHIR

Pembimbing Serta	: Emmawati, ST, M, Si
Nama Mahasiswa	: Ardunha Aurora
NPM	: 201103051
Bidang Ilmu	: APKM

1.	9 - NOV - 2023	11.00	Lpm	diskusi tentang tema.	G
2.	10 - JAN - 2024	17.30	rumah	revisi bab 1-3 keabsorpsian kalsium & vitamin D	G
3.	21 - NOV - 2023	15.30	ruang room meeting	presentasi keanggotaan TA 1	G
4.	11 - JAN - 2024	10.20	Lpm	revisi bab 1-3	G
5.	12 - DES - 2023	12.30	lpm	bimbingan bab 1	G
6.	15 - DES - 2023	10.57	WA	revisi bab 1	G
7.	17 - DES - 2023	13.00	lab 2.	bimbingan bab 1-2	G
8.	25 - DES - 2023	11.21	WA	revisi bab 1-2	G
9.	5 - JAN - 2024	08.20	lpm	bimbingan bab 1-3.	G
10.					

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

Periode TA 2

KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

Pembimbing Serta	: Emma Emmawati, M.Si
Nama Mahasiswa	: Ardentia Aurora
NPM	: 201FF03051
Bidang Ilmu	: Analisis Farmasi dan Kimia Medisinal (AFKM)

1	Selasa 30 - 04 - 2024	15.01	Lpm	Laporan kemajuan II	G
2	22-06-2024	16.50	online	Bimbingan prosedur	G
3	5-07-2024	13.00	Lt.2	Bimbingan prosedur	G
4	6-07-2024	15.40	online	Bimbingan prosedur	G
5	7-07-2024	12.13	online	Bimbingan prosedur	G
6	8-07-2024	18.50	online	Bimbingan prosedur	G
7	9-07-2024	09.30	Lab instrumen	Bimbingan prosedur	G
8	10-07-2024	15-30	Lt-3	Bimbingan hasil	G
9	12-07-2024			Hari dan pembekaran	G
10					

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

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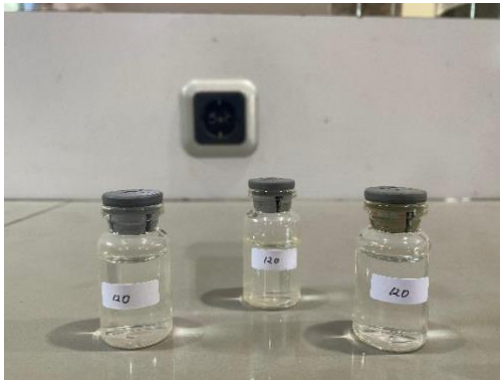
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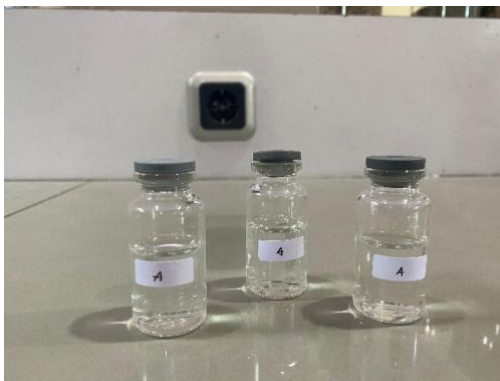
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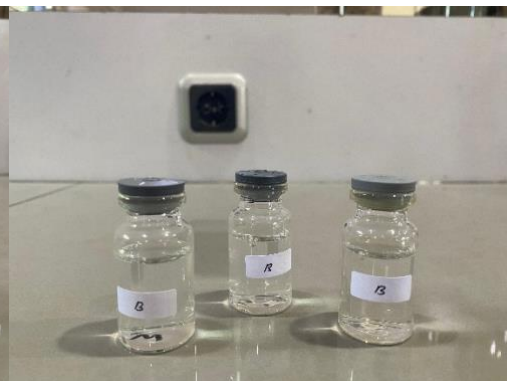
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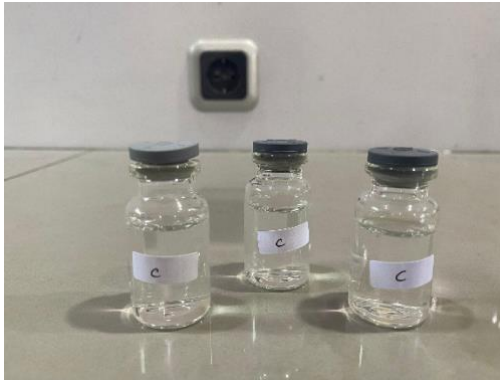
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Larutan sampel A



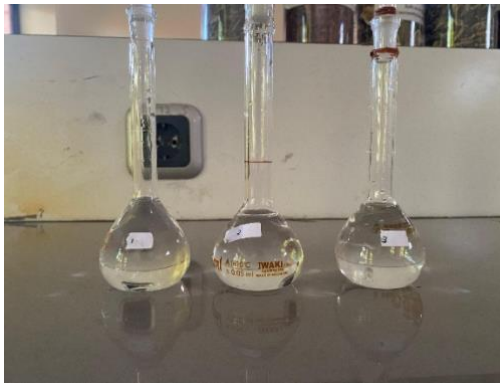
Larutan sampel B



Larutan sampel C



Konsentrasi 100%



Larutan Sampel Simulasi



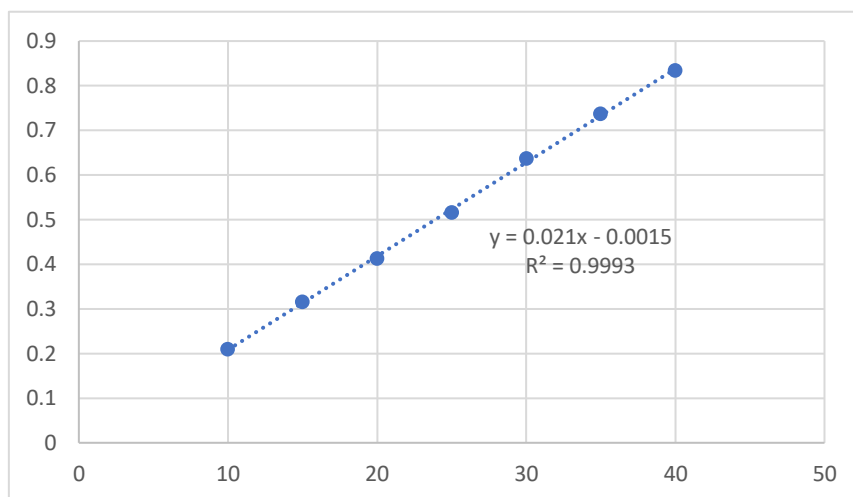
Larutan 7 Konsentrasi

Lampiran 4. Perhitungan Menggunakan Aplikasi Excel

Perhitungan Linearitas

No	Kons (Y)	Abs (Yi)	Y'	(Yi-Y')	(Yi-Y')^2
1	10	0,21	0,2085	0,0015	2,25E-06
2	15	0,316	0,3135	0,0025	6,25E-06
3	20	0,413	0,4185	-0,0055	3,03E-05
4	25	0,515	0,5235	-0,0085	7,23E-05
5	30	0,637	0,6285	0,0085	7,22E-05
6	35	0,737	0,7335	0,0035	1,22E-05
7	40	0,834	0,8385	-0,0045	2,03E-05
rata - rata				jumlah	0,00022

a	-0,0015
b	0,021
R2	0,9993
r	0,999652
Sy/x	0,007344
BD	1,049174
BK	3,497245
Sx0	0,349725
Vx0	0,874311



Perhitungan Akurasi

	Pengulangan	Abs Sampel	C Sampel	Konsentrasi Teoritis	% Recovery	Rata - Rata	SD
80%	1	0,346	16,54761905	20	82,73809524	86,78571429	3,66543
	2	0,367	17,54761905		87,73809524		
	3	0,376	17,97619048		89,88095238		
100%	1	0,539	25,73809524	25	102,952381	103,5238095	0,503953
	2	0,543	25,92857143		103,7142857		
	3	0,544	25,97619048		103,9047619		
120%	1	0,724	34,54761905	30	115,1587302	116,7989418	1,525242
	2	0,736	35,11904762		117,0634921		
	3	0,743	35,45238095		118,1746032		
					Rata - rata	102,3694885	

Perhitungan Presisi

PRESISI HARI 1

	Pengulangan	Abs Sampel	C Sampel	Konsentrasi Teoritis	% Recovery	SD	%RSD
100%	1	0,539	25,73809524	25	102,952381	2,071437694	1,9707124
	2	0,543	25,92857143		103,7142857		
	3	0,544	25,97619048		103,9047619		
	4	0,553	26,4047619		105,6190476		
	5	0,569	27,16666667		108,6666667		
	6	0,554	26,45238095		105,8095238		
				Rata - Rata	105,1111111		

PRESISI HARI 2

	Pengulangan	Abs Sampel	C Sampel	Konsentrasi Teoritis	% Recovery	SD	%RSD
100%	1	0,538	25,69047619	25	102,7619048	1,952729353	1,8572154
	2	0,541	25,83333333		103,3333333		
	3	0,549	26,21428571		104,8571429		
	4	0,556	26,54761905		106,1904762		
	5	0,566	27,02380952		108,0952381		
	6	0,553	26,4047619		105,6190476		
				Rata - Rata	105,1428571		

PRESISI HARI 3

	Pengulangan	Abs Sampel	C Sampel	Konsentrasi Teoritis	% Recovery	SD	%RSD
100%	1	0,537	25,64285714	25	102,5714286	1,93874448	1,8489389
	2	0,54	25,78571429		103,1428571		
	3	0,545	26,02380952		104,0952381		
	4	0,555	26,5		106		
	5	0,564	26,92857143		107,7142857		
	6	0,553	26,4047619		105,6190476		
				Rata - Rata	104,8571429		

Perhitungan Penetapan Kadar

Sampel A

Pengulangan	Abs Sampel	C Sampel	Fp	Vol larutan mL	Kadar (C x V Lar x Fp) mg/mL	Kadar (mg)	Faktor Koreksi	Kadar %	SD
1	0,422	20,16666667	40	25	20166,66667	20,16666667	19,7017064	2,016666667	0,0099127
2	0,419	20,02380952	40	25	20023,80952	20,02380952	19,56214295	2,002380952	
3	0,423	20,21428571	40	25	20214,28571	20,21428571	19,74822754	2,021428571	
					rata - rata			2,01349206	

Sampel B

Pengulangan	Abs Sampel	C Sampel	Fp	Vol larutan mL	Kadar (C x V Lar x Fp) mg/mL	Kadar (mg)	Faktor Koreksi	Kadar %	SD
1	0,419	20,02380952	100	25	50059,52381	50,05952381	48,90535738	5,005952381	0,0181848
2	0,42	20,07142857	100	25	50178,57143	50,17857143	49,02166025	5,017857143	
3	0,417	19,92857143	100	25	49821,42857	49,82142857	48,67275163	4,982142857	
					rata - rata			5,00198413	

Sampel C

Pengulangan	Abs Sampel	C Sampel	Fp	Vol larutan mL	Kadar (C x V Lar x Fp) mg/mL	Kadar (mg)	Faktor Koreksi	Kadar %	SD
1	0,421	20,11904762	40	25	20119,04762	20,11904762	19,65518525	2,011904762	0,0095238
2	0,419	20,02380952	40	25	20023,80952	20,02380952	19,56214295	2,002380952	
3	0,417	19,92857143	40	25	19928,57143	19,92857143	19,46910065	1,992857143	
					rata - rata			2,00238095	

Lampiran 5. COA Niacinamide



CERTIFICATE OF ANALYSIS

Product Name	NIACINAMIDE (NICOTINAMIDE)	Grade	USP
Batch No.	B2210-NIA177	Batch Qty.	40 MT
Mfg. Date	October-2022	Expiry Date	September-2027
A.R. No.	F22QC1-00177	Specification No.	FPS/NIA/F00094/SPEC-01
Storage condition	Preserve in tight containers	Spec. Rev. No.	15
Report Number	NIA/22/00707-00	STP No.	FPP/NIA/F00094/STP-01
Date of Sampling	27/10/2022	STP Rev. No.	15
Sampling Plan	JVL/QC1/SOP/011	Complete date of Analysis	29/10/2022
Start date of Analysis	27/10/2022	Date of Approval	29/10/2022
Packing Detail	Aluminium bag 25 Kg	Dispatch Qty.	5 MT
		Container No.	ECNU2260121

Sr. No.	Test	Specification	Result
1.	Description and Solubility	White, crystalline powder. (Is odorless or practically so, and has a bitter taste. *) its solutions are neutral to litmus. Freely soluble in Water and in Alcohol. Soluble in Glycerin.	White crystalline powder, its solutions are neutral to litmus. Freely soluble in Water and in Alcohol. Soluble in Glycerin.
2.	Identification		
	A IR Absorption	IR absorption spectrum of the sample should be concordant with the spectrum obtained with Niacinamide working standard.	IR absorption spectrum of the sample is concordant with the spectrum obtained with Niacinamide working standard.
	B UV Absorption	UV spectrum of the sample, should be concordant with that of working standard spectrum. The A_{245}/A_{262} ratio is 0.63 - 0.67.	UV spectrum of the sample is concordant with that of the working standard spectrum. The A_{245}/A_{262} ratio is 0.66
3.	Melting Range	128 °C - 131 °C	128.6°C - 129.5°C
4.	Loss on Drying (Over Silica gel for 4 hr.)	NMT 0.50 % w/w	0.04% w/w
5.	Residue on Ignition	NMT 0.10 % w/w	0.07% w/w
6.	Readily carbonizable substances	The Sample solution has no more color than Matching Fluid A.	The sample solution has no more color than Matching Fluid A.
7.	Assay (by HPLC)	NLT 98.5 % w/w and NMT 101.5 % w/w of Niacinamide ($C_6H_6N_2O$), calculated on the dried basis.	99.7% w/w

Remark:

- 1) The material complies as per above specification.
 2) *Note: It is organoleptic characteristic provided for information, not a test to identify material.

	Prepared By	Checked By	Approved By
Sign./Date	<i>[Signature]</i> 29/10/22	<i>[Signature]</i> 29/10/22	<i>[Signature]</i> 29/10/22
Name	Shital Jambay	Minhee Pateri	Shiv Shankar Patel

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 OUR VALUES



Jubilant Ingrevia Limited
 Unit-1, Plot No. P1-11,
 Within Jubilant - SEZ at Plot No. 5,
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 Dist. Bhavnagar, Gujarat, India
 Tel: +91 361 291500
 www.jubilantingrevia.com

Corporate Office :
 U-1, Sector 16-A
 Noida-201 301, Uttar Pradesh, India
 Tel: +91 120 4361000
 Fax: +91 120 424895-96

Regd. Office :
 Bharatnagar, Gajraula
 Dist. Amroha - 241 225,
 Uttar Pradesh, India
 CIN : L24289U12019PLC123657

Lampiran 6. CV Penulis

ARDENTIA AURORA

LULUSAN TAHUN 2024

📍 Subang, Jawa Barat • 41256
 ☎ +62 823-1895-1153
 ✉ auroraardentia@gmail.com



IDENTITAS MAHASISWA

Nama : Ardentia Aurora
 Tempat, Tanggal Lahir : Subang, 28 Januari 2003
 Jenis Kelamin : Perempuan
 Alamat : Kp. Pintu Cijengkol, Ds.Sukamandijaya, Kec. Ciasem,
 Kab. Subang
 Kewarganegaraan : Indonesia
 Agama : Islam
 Status : Belum Menikah

PENDIDIKAN

- SDN KERTAWINAYA TAHUN : 2008 - 2014
- SMPN 2 CIASEM TAHUN : 2014 - 2017
- SMAN 1 CIASEM TAHUN : 2017 - 2020
- UNIVERSITAS BHAKTI KENCANA TAHUN : 2020 - 2024

PELATIHAN DAN SEMINAR YANG PERNAH DIIKUTI

- Personal Branding dengan tema "Find your identity, Find your destiny" pada tahun 2021
- Gelar Karya PKM Internal Fakultas Farmasi Universitas Bhakti Kencana dengan tema "Tunjukkan Karyamu" pada tahun 2020
- LK1 ISFARMASI 2020 dengan tema "Build The Best Character To Be An Excellent Pharmacist For The Future Leader"
- Kuliah Tamu ke 2 Prodi Sarjana Farmasi pada 17 Desember 2022, dengan tema "Pengembangan Produk Tanaman Obat asli Indonesia dalam Industri Obat Tradisional"
- Workshop Pharmaceutical Care. Workshop ini mengangkat tema "The Future of Pharmacist : Achieving Excellence in Pharmaceutical Care" pada tahun 2022