

LAMPIRAN

Lampiran 1 Bukti cek plagiarisme

PENGEMBANGAN FORMULA DAN KARAKTERISASI NANOSTRUCTURED LIPID CARRIERS (NLC) KURKUMIN MENGUNAKAN GLYCERYL PALMITOSTEARAT, CAPRIC TRIGLYCERIDE DAN PEG-40 HYDROGENATED CASTOR OIL

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Lampiran 2 Kartu bimbingan

No Dok. 02.64.00/FRM-03/AF



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KARTU BIMBINGAN TUGAS AKHIR II

Pembimbing Utama	: Dr.apt. Garnadi Jafar, M.Si.				
Nama Mahasiswa	: Silpi Pebriawati				
NPM	: 201FF03146				
Bidang Ilmu	: Farmasetika dan Teknologi Farmasi				

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1.	Selasa / 30 April 2024	11.30	Kampus	Diskusi terkait laporan kemajuan 1	✓
2.	Selasa 06 Februari 2024	08.00	Kampus	Diskusi terkait optimasi formula	✓
3.	13 Februari 2024 - 31 Maret 2024	08.00	Kampus	Diskusi terkait pembuatan makalah	✓
4.	03 April 2024	08.00	Kampus	Diskusi terkait karakterisasi makalah	✓
5.	15 Mei 2024	13.00	Kampus	Diskusi terkait penulisan format makalah	✓
6.	22 Mei 2024	16.00	Kampus	Presentasi laporan kemajuan 2	✓
7.	27 Mei 2024	17.00	Kampus	Diskusi terkait karakterisasi blanko MIC	✓
8.	02 Juni 2024	13.00	Kampus	Diskusi terkait Bab IV	✓



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KARTU BIMBINGAN TUGAS AKHIR II

Pembimbing Serta	: Reza Pratama, M.Farm				
Nama Mahasiswa	: Silpi Pebriawati				
NPM	: 201FF03146				
Bidang Ilmu	: Farmasetika dan Teknologi Farmasi				

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1	Selasa / 30 April 2024	13.00	Kampus	Diskusi terkait laporan kemajuan 1	✓
2	Selasa / 21 Mei 2024	13.00	Kampus	Diskusi terkait laporan kemajuan 2	✓
3	Senin / 27 Mei 2024	14.25	Kampus	Laporan kemajuan 2	✓
4	Kamis / 09 Juni 2024	10.43	Kampus	Diskusi terkait hasil dan pembahasan	✓
5	Jumat / 05 Juni 2024	10.43	Kampus	Revisi hasil & pembahasan	✓
6	Senin / 08 Juni 2024	10.45	Kampus	Diskusi terkait Review jurnal	✓
7	Selasa / 09 Juni 2024	10.45	Kampus	Diskusi terkait Seminar hasil penelitian	✓
8	Rabu / 10 Juni 2024	10.45	Kampus	Draft Seminar hasil penelitian	✓

Lampiran 3 CoA (Certificate of Analysis) Bahan aktif dan eksipien

Dimethyl sulfoxide



Certificate of Analysis

1 02952.1000 Dimethyl sulfoxide for analysis EMSURE® ACS
Batch K54891652

	Spec. Values		Batch Values	
Purity (GC)	≥ 99.9	%	99.9	%
Identity (IR)	conforms			
Appearance	clear			
Color	≤ 10	Hazen	≤ 5	Hazen
Titration acid	≤ 0.0002	mg/g	0.0001	mg/g
Density at 20 °C (20 °C)	1.400 - 1.405		1.402	
Refractive index (n _D 20°C)	1.476 - 1.481		1.479	
Boiling point	≥ 18.8	°C	18.2	°C
Heavy metals (as Pb)	≤ 0.0001	%	≤ 0.0001	%
Fe (iron)	≤ 0.0001	%	≤ 0.0001	%
Related substances (GC)	conforms			
Residually carbonizable substances	conforms			
Evaporation residue	≤ 0.001	%	≤ 0.001	%
Water	≤ 0.1	%	≤ 0.1	%

Date of release (DD MM YYYY) 22.12.2022
 Minimum shelf life (DD MM YYYY) 31.12.2025

Arminette David
 Responsible laboratory manager quality control

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Merck KGaA
 Corporation with General Partners
 Postfach 200630
 69120 Darmstadt, Germany

(K54891652) Date: 22.12.2022

This is a service business of Merck KGaA, Darmstadt,
 Germany operated as MilliporeSigma in the U.S. and
 Canada.

Page 1 of 1

Methanol PA

Certificate of Analysis

1.06009.0000 Methanol for analysis EMSURE® ACS,ISO,Reag. Ph Eur
Batch I1108609

	Spec. Values	Batch Values
Purity (GC)	≥ 99.9 %	99.9 %
Identity (IR)	conforms	conforms
Appearance	clear	clear
Color	≤ 10 Hazen	≤ 5 Hazen
Solubility in water	conforms	conforms
Acidity	≤ 0.0002 mg/g	0.0001 mg/g
Alkalinity	≤ 0.0002 mg/g	< 0.0002 mg/g
Density (d ₂₀ °C/d ₂₀ °C)	0.791 - 0.795	0.793
Boiling point	64 - 65 °C	64 °C
Benzene (impurity A) (GC)	≤ 2 ppm	< 1 ppm
Ethanol (GC)	≤ 0.001 %	< 0.01 %
Acetone	≤ 0.001 %	< 0.001 %
Acetaldehyde	≤ 0.001 %	< 0.001 %
Formaldehyde	≤ 0.001 %	< 0.001 %
Readily carbonizable substances	conforms	conforms
Carbonyl compounds (as CO)	≤ 0.001 %	< 0.001 %
Chloride (Cl)	≤ 0.5 ppm	< 0.5 ppm
Sulfate (SO ₄)	≤ 1 ppm	< 1 ppm
Substances reducing potassium permanganate (as O)	≤ 0.00025 %	< 0.00025 %
Ag (Silver)	≤ 0.000002 %	≤ 0.000002 %
Al (Aluminium)	≤ 0.00005 %	≤ 0.00005 %
As (Arsenic)	≤ 0.000002 %	≤ 0.000002 %
Au (Gold)	≤ 0.000002 %	≤ 0.000002 %
Ba (Barium)	≤ 0.00001 %	≤ 0.00001 %
Ba (Barium)	≤ 0.000002 %	≤ 0.000002 %
Bi (Bismuth)	≤ 0.000002 %	≤ 0.000002 %
Ca (Calcium)	≤ 0.00006 %	≤ 0.00006 %
Cd (Cadmium)	≤ 0.0000005 %	≤ 0.0000005 %
Co (Cobalt)	≤ 0.000002 %	≤ 0.000002 %
Cr (Chromium)	≤ 0.000002 %	≤ 0.000002 %
Cu (Copper)	≤ 0.000002 %	≤ 0.000002 %
Fe (Iron)	≤ 0.00001 %	≤ 0.00001 %
Ga (Gallium)	≤ 0.000002 %	≤ 0.000002 %
In (Indium)	≤ 0.000002 %	≤ 0.000002 %
Li (Lithium)	≤ 0.000002 %	≤ 0.000002 %
Mg (Magnesium)	≤ 0.00001 %	≤ 0.00001 %
Mn (Manganese)	≤ 0.000002 %	≤ 0.000002 %
Mo (Molybdenum)	≤ 0.000002 %	≤ 0.000002 %
Ni (Nickel)	≤ 0.000002 %	≤ 0.000002 %
Pb (Lead)	≤ 0.00001 %	≤ 0.00001 %
Pt (Platinum)	≤ 0.000005 %	≤ 0.000005 %

Merck KGaA, Frankfurter Straße 250, 64283 Darmstadt (Germany); +49 6151 72-0
EMD Millipore Corporation - a subsidiary of Merck KGaA, Darmstadt, Germany
400 Summit Drive, Burlington, MA 01803, USA, Phone +1 (781) 533-6068

Certificate of Analysis

1.06009.0000 Methanol for analysis EMSURE® ACS,ISO,Reag. Ph Eur
Batch I1108609

	Spec. Values	Batch Values
Sn (Tin)	≤ 0.00001 %	≤ 0.00001 %
Ti (Titanium)	≤ 0.000002 %	≤ 0.000000 %
Tl (Thallium)	≤ 0.000002 %	≤ 0.000000 %
V (Vanadium)	≤ 0.000002 %	≤ 0.000002 %
Zn (Zinc)	≤ 0.00001 %	≤ 0.00001 %
Zr (Zirconium)	≤ 0.000002 %	≤ 0.000002 %
Evaporation residue	≤ 0.0005 %	< 0.0005 %
Water	≤ 0.05 %	0.01 %

ACS, ISO, Reag Ph Eur

Date of release (DD.MM.YYYY): 14.06.2019
Minimum shelf life (DD.MM.YYYY): 31.05.2025

J. Knebel (Date)
Responsible laboratory manager quality control

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DILSA Version 01/19 20190715/17 Doc: 14.05.2019

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Kurkumin



Certificate of Analysis

8.20354.0000 Curcumin for synthesis
Batch S8350354

Batch Values		
Assay (HPLC, area%)	77.1	% (w/w)
Bisdemethoxycurcumin (HPLC, Area%)	4.5	% (w/w)
Demethoxycurcumin (HPLC, Area%)	17.7	% (w/w)
Identity (IR)	passes test	

Date of examination (DD.MM.YYYY) 19.12.2022
Minimum shelf life (DD.MM.YYYY) 31.12.2027

Dr. Jörg Bauer
Responsible laboratory manager, quality control

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Merck KGaA
Cooperation with General Partners
Frankfurter Straße 250
64293 Darmstadt, Germany

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SA.54 Version 1599412595050507201 Date: 19.12.2022

Peg-40 Hydrogenated Castor Oil

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BASF SE

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NO.7-10 RT.014 RW.013 SUNTER AGUNG
14300 JAKARTA
Indonesia

2018-11-14
ENTOGA
Dr. Dr. Florian Witschack
florian.witschack@basf.com
Certificate No 6085
Page 1 of 4

Inspection Certificate 3.1 according to EN 10204

Kalighor® R01 40

Material 60581349
Order 605050712 000010
Delivery 319102088 000010
Lot 6342171600
LotQty 9720.000 KG
Total 9720.000 KG
Transport TLL00006420

Test Parameter	Requirements	Unit	Results
Appearance	white to yellowish, salt or flaking free		conforms
Odor	acid		conforms
Identification	must conform		conforms
Appearance of aqueous solution 1%	not more opalescent than reference sol. 1%, see 2.9		conforms
Coagulating temperature	Min.: 18 Max.: 38	degrees C	23
Acid Value	Max.: 6.8	mg KOH/g	0.2
Alkalinity	must conform		conforms
Water (Karl-Fischer-Titration)	Max.: 2.0	g/100g	1.8
Total ash *	must conform (max.: 0.25 g/100g)		conforms
Sulfurated ash *	must conform (max.: 0.2 g/100g)		conforms

The aforementioned data shall constitute the agreed contractual quality of the product at the time of printing of this. The data are recorded at regular intervals as part of the quality assurance program. Further data may be requested at any time. The data are recorded at regular intervals as part of the quality assurance program. Further data may be requested at any time. The data are recorded at regular intervals as part of the quality assurance program. Further data may be requested at any time.

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Inspection Certificate 3.1 according to EN 10204

Kalighor® R01 40

Material 60581349
Order 605050712 000010
Delivery 319102088 000010
Lot 6342171600
LotQty 9720.000 KG
Total 9720.000 KG
Transport TLL00006420

Test Parameter	Requirements	Unit	Results
Hydroxy Value	Min.: 98 Max.: 75	mg KOH/g	72
Iodine Value	Max.: 1.0	g Iodine / 100g	0.3
Saponification Value	Min.: 20 Max.: 30	mg KOH/g	24
Heavy metals *	must conform (max.: 10 mg/kg)		conforms
Arsenic *	must conform (max.: 2 mg/kg)		conforms
Limit of Moist	Max.: 30	mg/kg	<0.4
Ethylene Oxide	Max.: 1	mg/kg	<1
1,4-Dioxane	Max.: 18	mg/kg	<18
Dioethylene glycol	Max.: 620	mg/kg	<180
Residual esters ethylene glycol	Max.: 620	mg/kg	<0.6
Residual esters acetic acid	Max.: 8.5	g/100g	<0.5

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Indonesia

2018-11-14
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Certificate No 6085
Page 3 of 4

Inspection Certificate 3.1 according to EN 10204

Kalighor® R01 40

Material 60581349
Order 605050712 000010
Delivery 319102088 000010
Lot 6342171600
LotQty 9720.000 KG
Total 9720.000 KG
Transport TLL00006420

Test Parameter	Requirements	Unit	Results
Total viable microbials count (TMC) Test method Ph.Bst., 2.8.32	Max.: 200	CFU/g	<10
Total combined yeasts/moulds count (TYMC) Test method Ph.Bst., 2.8.32	Max.: 30	CFU/g	<10

* This test is verified on random samples only

The product meets the specifications of the monograph: "Monopropylene glycol" of Ph.Bst. 00 edition "Hydroxy" of Hydrogenated Castor Oil" of the ISO 15778

Manufacturer: BASF SE
Carl-Ludwig-Str. 38
67089 Ludwigshafen
Germany

QC-Reference No. 1003845

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florian.witschack@basf.com
Certificate No 6085
Page 4 of 4

Inspection Certificate 3.1 according to EN 10204

Kalighor® R01 40

Material 60581349
Order 605050712 000010
Delivery 319102088 000010
Lot 6342171600
LotQty 9720.000 KG
Total 9720.000 KG
Transport TLL00006420

Test Parameter	Requirements	Unit	Results
Production date	(YYYY-MM-DD) 2018-08-27		
Release date	(YYYY-MM-DD) 2018-10-01		
Retest date	(YYYY-MM-DD) 2019-09-20		

BASF SE
Quality Assurance - Release
vfp, Mr. Witschack
GR-representative

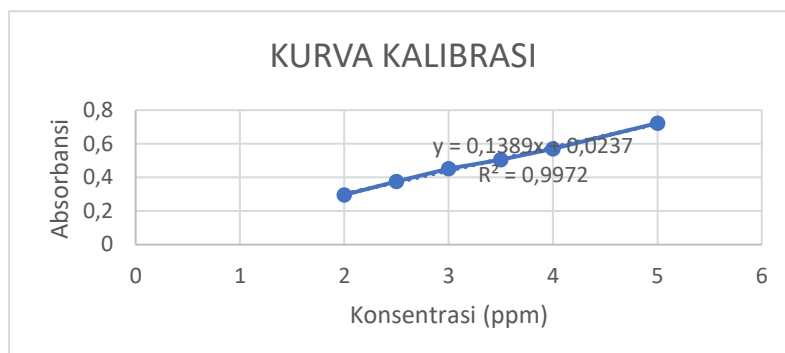
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Lampiran 4 Kurva kalibrasi kurkumin

C (ppm)	Abs
2	0,296
2,5	0,376
3	0,451
3,5	0,505
4	0,569
5	0,723



Diketahui:

b (slope) = 0,1389

a (intercept) = 0,0237

R² (koefisien determinasi) = 0,9972

r (koefisien korelasi) = 0,998599019

S_{y/x} = 0,008954957

BD (Batas Deteksi) = 0,193411592

BK (Batas Kuantitasi) = 0,644705308

S_{x0} (standar deviasi dari fungsi) = 0,064470531

V_{x0} (koefisien variasi dari fungsi) = 0,019341159

No	C (ppm)	Abs (Y _i)	Y'	(Y _i -Y')	(Y _i -Y') ²
1	2	0,296	0,3015	-0,0055	3,025E-05
2	2,5	0,376	0,37095	0,00505	2,55025E-05
3	3	0,451	0,4404	0,0106	0,00011236
4	3,5	0,505	0,50985	-0,00485	2,35225E-05
5	4	0,569	0,5793	-0,0103	0,00010609
6	5	0,723	0,7182	0,0048	2,304E-05
rata-rata	3,333333		Jumlah	-0,0002	0,000320765

Lampiran 5 Perhitungan efisiensi penjerapan

PENGUJIAN NLC KURKUMIN H1								
Formula	Abs	C (ppm)	Fp	C' (ppm)	Vol (mL)	mcg	mg	%EE
PMC 1	0,052	0,204	50	1,019	5	5,09	0,005	99,204
PMC 2	0,051	0,197	50	0,983	5	4,91	0,005	99,444
PMC 3	0,050	0,189	50	0,947	5	4,73	0,005	99,564
PMC 4	0,048	0,175	50	0,875	5	4,37	0,004	99,564
PMC 5	0,048	0,175	50	0,875	5	4,37	0,004	99,576

PENGUJIAN NLC KURKUMIN H30								
Formula	Abs	C (ppm)	Fp	C' (ppm)	Vol (mL)	mcg	mg	%EE
PMC 1	0,090	0,477	50	2,387	5	11,93	0,012	99,660
PMC 2	0,070	0,333	50	1,667	5	8,33	0,008	99,672
PMC 3	0,060	0,261	50	1,307	5	6,53	0,007	99,684
PMC 4	0,060	0,261	50	1,307	5	6,53	0,007	99,708
PMC 5	0,059	0,254	50	1,271	5	6,35	0,006	99,708

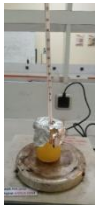
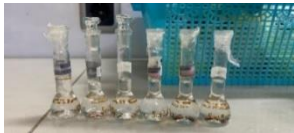
Lampiran 6 Hasil karakterisasi NLC Kurkumin

Formula	T1			T30		
	PSA	PDI	ZETA	PSA	PDI	ZETA
F1	109,5±1,852	0,308±0,030	-18,7±0,902	221,4±2,818	0,297±0,016	-23,6±0,603
F2	141,2±3,004	0,267±0,012	-19,1±0,200	145,3±4,204	0,264±0,032	-26,5±0,551
F3	159,3±1,873	0,236±0,032	-19,9±0,400	411,5±24,644	0,278±0,147	-23,5±0,173
F4	234,2±5,577	0,353±0,022	-18,1±0,265	385,8±4,157	0,399±0,013	-22,3±0,586
F5	288,5±2,548	0,268±0,012	-21,9±0,351	125,6±1,650	0,336±0,068	-20,5±0,493

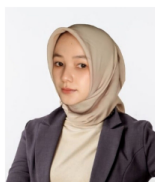
Lampiran 7 Hasil uji T-Test NLC kurkumin

PAIRED SAMPLES TEST									
		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	PMC_F1_H1_PSA - PMC_F1_H30_PSA	-111,9333	3,6474	2,1058	-120,9939	-102,8728	-53,154	2	,008
Pair 2	PMC_F2_H1_PSA - PMC_F2_H30_PSA	-4,0667	4,5545	2,6295	-15,3806	7,2473	-1,547	2	,262
Pair 3	PMC_F3_H1_PSA - PMC_F3_H30_PSA	-252,2000	24,9866	14,4260	-314,2701	-190,1299	-17,482	2	,007
Pair 4	PMC_F4_H1_PSA - PMC_F4_H30_PSA	-151,6333	9,2770	5,3561	-174,6788	-128,5879	-28,310	2	,006
Pair 5	PMC_F5_H1_PSA - PMC_F5_H30_PSA	162,9667	2,9501	1,7033	155,6381	170,2952	95,679	2	,091
Pair 6	PMC_F1_H1_PdI - PMC_F1_H30_PdI	,011333	,044106	,025465	-,098232	,120899	,445	2	,700
Pair 7	PMC_F2_H1_PdI - PMC_F2_H30_PdI	,003333	,009609	,005548	-,020537	,027203	,601	2	,609
Pair 8	PMC_F3_H1_PdI - PMC_F3_H30_PdI	-,042000	,175582	,101372	-,478170	,394170	-,414	2	,719
Pair 9	PMC_F4_H1_PdI - PMC_F4_H30_PdI	-,046000	,002646	,001528	-,052572	-,039428	-30,114	2	,007
Pair10	PMC_F5_H1_PdI - PMC_F5_H30_PdI	-,068333	,078653	,045410	-,263719	,127052	-1,505	2	,271
Pair11	PMC_F1_H1_ZETA - PMC_F1_H30_ZETA	4,9000	1,3229	,7638	1,6138	8,1862	6,416	2	,023
Pair12	PMC_F2_H1_ZETA - PMC_F2_H30_ZETA	7,4333	,3786	,2186	6,4929	8,3738	34,007	2	,008
Pair13	PMC_F3_H1_ZETA - PMC_F3_H30_ZETA	3,6000	,5568	,3215	2,2169	4,9831	11,199	2	,008
Pair14	PMC_F4_H1_ZETA - PMC_F4_H30_ZETA	4,2333	,4163	,2404	3,1991	5,2676	17,612	2	,007
Pair15	PMC_F5_H1_ZETA - PMC_F5_H30_ZETA	-1,4000	,8185	,4726	-3,4334	,6334	-2,962	2	,098

Lampiran 8 Dokumentasi penelitian

 Vivaspin	 Pembuatan NLC kurkumin	 Magnetic Stirrer
 Kompur listrik	 Alat dan bahan yang digunakan	 Labu ukur 5 ml
 Sampel NLC kurkumin untuk pengujian stabilitas	 Malvern zetasizer versi 7.12	 Sentrifugasi
 Uji morfologi TEM	 Pengujian efisiensi penyerapan menggunakan spektro UV-Vis	 Timbangan Analitik
 Sonicator probe	 NDDS grup	 Proses homogenisasi pre-emulsi NLC kurkumin dengan sonicator probe

Lampiran 9 CV



SILPI PEBRIAWATI

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SUMMARY

A pharmacy graduate with a comprehensive background in participating in the whole hiring process, learning & development. Individual with well-developed leadership and communication skills, highly professional attitude, excellent time management abilities, and strong determination to perform great work

LEADERSHIP ACTIVITIES & EXPERIENCE

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|---|------------------------|
| Priangan Pharmaceutical Leadershif | Nov 2021 |
| <ul style="list-style-type: none"> • Increase understanding related to leadership in pharmacy • Conducting focus group discussions related to pharmaceutical issues | |
| Leadership Training Mentorin | Dec 2022 |
| <ul style="list-style-type: none"> • Directing students to conduct focus group discussions so that students can have good discussions and are able to think critically within the allotted time | |
| Student Creativity Week | March 2023 |
| <ul style="list-style-type: none"> • Conduct analysis of market needs and opportunities • Make a research proposal related to the Student Creativity Program with the research title Low Calorie Croffle Red Chili (Exhibition) to Improve the Body's Immune System | |
| Participating in independent college activities to build villages LLDIKTI IV | Aug - Sept 2023 |
| <ul style="list-style-type: none"> • Social service and participation in community programs. • Seminars and counseling to the community, teachers, practitioners from various fields. • Teaching and mentoring programs in schools. • Assisting village administration and programs. • Participate in entrepreneurship programs. | |
| Internship at PT Menarini Indria Laboratories as production admin | Oct - Dec 2023 |
| <ul style="list-style-type: none"> • Visit department • Observe the production and packaging process of semisolid, liquid, solid, and medical device preparations. • Revise logbooks, review and prepare documents, processing data, creating monitoring data reports temperature, RH and pressure monthly. • Revision of SOP, MOP, MSP and simplification logbook. | |

EDUCATION

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| Bachelor of Pharmacy 3.75/4.00 | Sept 2020 - Oct 2024 |
| Bhakti Kencana University | |
| <ul style="list-style-type: none"> • Major in pharmaceutical technology. • Thesis on "Lipid-based nanoparticle technology for the treatment of androgenetic alopecia". • Publication of review article in Indonesian Journal of Pharmaceutical Science and Technology SINTA 2 | |

ADDITIONAL INFORMATION

- **Skills:** Microsoft Office, Creativity, Leadership, Teamwork, Communication, Good Laboratory practice
- **Languages:** English (medium) and Indonesian
- **Awards/Activities:** Finalist of PKM Bachelor of Pharmacy Study Program 2022, Personal Branding Finalist 2021, Best Volunteer in "Take A Break Campaign" and 2nd winner of the World Pharmacist Day 2021 educational video competition
- **Training:** Softskills Development Program and Career Development Training