

LAMPIRAN

Lampiran 1. *Certificate Of Analysis* Kurkumin



Certificate of Analysis

8.20354.0000 Curcumin for synthesis

Batch S8350354

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

Date of examination (DD MM YYYY) 19 12 2022

Minimum shelf life (DD MM YYYY) 31 12 2027

Dr. Jorg Bauer

Responsible laboratory manager quality control

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Merck KGaA

Corporation with General Partners

Frankfurter Straße 250

64293 Darmstadt, Germany

The life science business of Merck KGaA, Darmstadt,

Germany operates as MilliporeSigma in the U.S. and

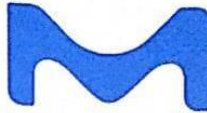
Canada

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SALSA Version 1260473/990000993739/

Date: 19.12.2022

Lampiran 2. Certificate Of Analysis Methanol



Certificate of Analysis

1.06009.0000 Methanol for analysis EMSURE® ACS,ISO,Reag. Ph Eur
Batch 11108609

	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	meq/g	0.0001	meq/g
Alkalinity	≤ 0.0002	meq/g	< 0.0002	meq/g
Density (d 20 °C/20 °C)	0.791 - 0.793		0.793	
Boiling point	64 - 65	°C	64	°C
Benzene (impurity A) (GC)	≤ 2	ppm	< 1	ppm
Ethanol (GC)	≤ 0.05	%	< 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	%
Be (Beryllium)	≤ 0.000002	%	≤ 0.000002	%
Bi (Bismuth)	≤ 0.000002	%	≤ 0.000002	%
Ca (Calcium)	≤ 0.00005	%	≤ 0.00005	%
Cd (Cadmium)	≤ 0.000005	%	≤ 0.000005	%
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, 64293 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) 533-6000

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Certificate of Analysis

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

Sn (Tin)	≤ 0.00001	%	≤ 0.00001	%
Ti (Titanium)	≤ 0.000002	%	≤ 0.000002	%
Tl (Thallium)	≤ 0.000002	%	≤ 0.000002	%
V (Vanadium)	≤ 0.000002	%	≤ 0.000002	%
Zn (Zinc)	≤ 0.00001	%	≤ 0.00001	%
Zr (Zirconium)	≤ 0.000002	%	≤ 0.000002	%
Evaporation residue	≤ 0.0005	%	< 0.0001	%
Water	≤ 0.05	%	0.01	%

ACS, ISO, Reag Ph Eur

Date of release (DD.MM.YYYY) 14.08.2020
Minimum shelf life (DD.MM.YYYY) 31.05.2025

Jeannette David
Responsible laboratory manager quality control

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Lampiran 3. *Certificate Of Analysis* DMSO

Certificate of Analysis

1.02952.1000 Dimethyl sulfoxide for analysis EMSURE® ACS
Batch K54861652

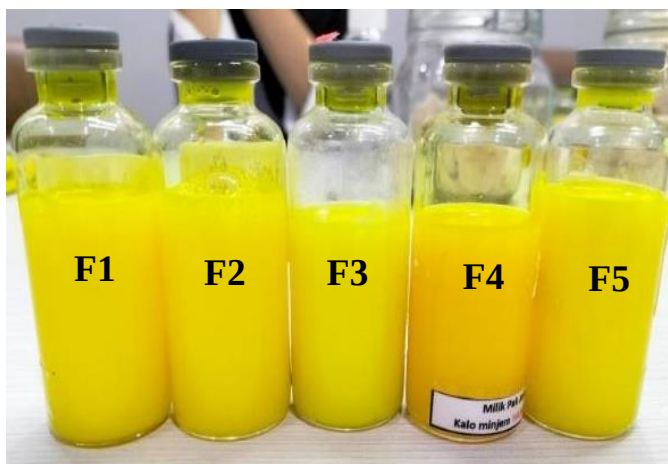
	Spec. Values		Batch Values	
Purity (GC)	≥ 99.9	%	99.9	%
Identity (IR)	conforms		conforms	
Appearance	clear		clear	
Color	≤ 10	Hazen	< 5	Hazen
Titration acid	≤ 0.0002	meq/g	0.0001	meq/g
Density (d 20 °C/20 °C)	1.101 - 1.103		1.102	
Refractive index (n 20/D)	1.478 - 1.481		1.479	
Melting point	≥ 18.0	°C	18.2	°C
Heavy metals (as Pb)	≤ 0.0001	%	≤ 0.0001	%
Fe (Iron)	≤ 0.0001	%	≤ 0.0001	%
Related substances (GC)	conforms		conforms	
Readily carbonizable substances	conforms		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

Jeannette David
Responsible laboratory manager quality control

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Lampiran 4. Hasil NLC Kurkumin



Lampiran 5. Perhitungan dan pembuatan kurva baku kurkumin

Larutan Induk

$$\begin{aligned}\text{Konsentrasi Larutan} &= \frac{\text{Bobot Kurkumin}}{\text{Volume}} \\ 50 \text{ ppm} &= \frac{50 \text{ mg}}{1000 \text{ ml}} \\ &= \frac{50 \text{ mg}}{100 \text{ ml}} \\ \text{Bobot Kurkumin} &= \frac{25 \text{ mg}}{50 \text{ ml}} = \mathbf{0,5 \text{ mg/ml}}\end{aligned}$$

Pengenceran Larutan

- a. Konsentrasi 2 ppm

$$V1 \times C1 = V2 \times C2$$

$$V1 \times 50 \text{ ppm} = 5 \text{ ml} \times 2 \text{ ppm}$$

$$V1 = \frac{10 \text{ ml}}{50 \text{ ppm}}$$

$$V1 = 0,2 \text{ ml} = \mathbf{200 \mu l}$$

- b. Konsentrasi 2,5 ppm

$$V1 \times C1 = V2 \times C2$$

$$V1 \times 50 \text{ ppm} = 5 \text{ ml} \times 2,5 \text{ ppm}$$

$$V1 = \frac{12,5 \text{ ml}}{50 \text{ ppm}}$$

$$V1 = 0,25 \text{ ml} = \mathbf{250 \mu l}$$

- c. Konsentrasi 3 ppm

$$V1 \times C1 = V2 \times C2$$

$$V1 \times 50 \text{ ppm} = 5 \text{ ml} \times 3 \text{ ppm}$$

$$V1 = \frac{15 \text{ ml}}{50 \text{ ppm}}$$

$$V1 = 0,3 \text{ ml} = \mathbf{300 \mu l}$$

- d. Konsentrasi 3,5 ppm

$$V1 \times C1 = V2 \times C2$$

$$V1 \times 50 \text{ ppm} = 5 \text{ ml} \times 3,5 \text{ ppm}$$

$$V1 = \frac{17,5 \text{ ml}}{50 \text{ ppm}}$$

$$V1 = 0,35 \text{ ml} = \mathbf{350 \mu l}$$

e. Konsentrasi 4 ppm

$$V1 \times C1 = V2 \times C2$$

$$V1 \times 50 \text{ ppm} = 5 \text{ ml} \times 4 \text{ ppm}$$

$$V1 = \frac{20 \text{ ml}}{50 \text{ ppm}}$$

$$V1 = 0,4 \text{ ml} = \mathbf{400 \mu l}$$

f. Konsentrasi 5 ppm

$$V1 \times C1 = V2 \times C2$$

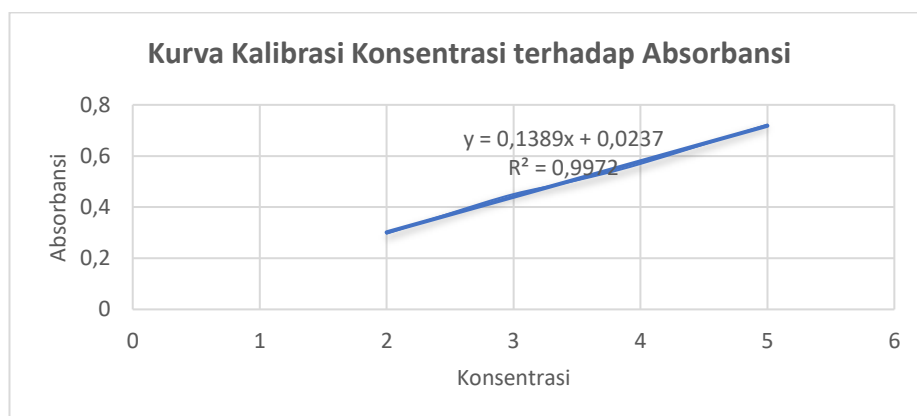
$$V1 \times 50 \text{ ppm} = 5 \text{ ml} \times 5 \text{ ppm}$$

$$V1 = \frac{25 \text{ ml}}{50 \text{ ppm}}$$

$$V1 = 0,5 \text{ ml} = \mathbf{500 \mu l}$$

Kurva Kalibrasi Kurkumin

No	kons (bpj)	Absorban
1	2 ppm	0,296
2	2,5 ppm	0,376
3	3 ppm	0,451
4	3,5 ppm	0,505
5	4 ppm	0,569
6	5 ppm	0,723
rata rata		3,3333333



Lampiran 6. Perhitungan %EE NLC Kurkumin

Formula	Absorbansi		Efisiensi Penjerapan (%)	
	H-1	H - 30	H-1	H - 30
F1	0,047	0,051	99.97	99.96
F2	0,048	0,080	99.97	99.93
F3	0,048	0,060	99.70	99.56
F4	0,006	0,062	99.97	99.40
F5	0,088	0,055	99.92	99.62

Perhitungan %EE**1. F1 T1**

$$\text{Konsentrasi} = \frac{0,047 - 0.0237}{0.1389}$$

$$= 0.167746 \text{ ppm}$$

$$\text{Bobot Zat Aktif Bebas} = 0.167746 \text{ ppm} \times 5 \text{ ml} \times 5$$

$$= 4,193664 \text{ } \mu\text{g}$$

$$= 0.004193664 \text{ mg}$$

$$\%EE = \frac{15 \text{ mg} - 0.004193664 \text{ mg}}{15 \text{ mg}} \times 100 \%$$

$$= 99.97\%$$

2. F1 T30

$$\text{Konsentrasi} = \frac{0,051 - 0.0237}{0.1389}$$

$$= 0.196544276 \text{ ppm}$$

$$\text{Bobot Zat Aktif Bebas} = 0.196544276 \text{ ppm} \times 5 \text{ ml} \times 5$$

$$= 4,913069114 \text{ } \mu\text{g}$$

$$= 0.0049136069114 \text{ mg}$$

$$\begin{aligned}\%EE &= \frac{15 \text{ mg} - 0.0049136069114 \text{ mg}}{15 \text{ mg}} \times 100 \% \\ &= 99.96\%\end{aligned}$$

3. F2 T1

$$\begin{aligned}\text{Konsentrasi} &= \frac{0,048 - 0.0237}{0.1389} \\ &= 0.174946004 \text{ ppm}\end{aligned}$$

$$\begin{aligned}\text{Bobot Zat Aktif Bebas} &= 0.0174946004 \text{ ppm} \times 5 \text{ ml} \times 5 \\ &= 4,37365010799 \text{ }\mu\text{g} \\ &= 0.00437365010 \text{ mg}\end{aligned}$$

$$\begin{aligned}\%EE &= \frac{15 \text{ mg} - 0.00437365010 \text{ mg}}{15 \text{ mg}} \times 100 \% \\ &= 99.97\%\end{aligned}$$

4. F2 T30

$$\begin{aligned}\text{Konsentrasi} &= \frac{0,080 - 0.0237}{0.1389} \\ &= 0.4053275737 \text{ ppm}\end{aligned}$$

$$\begin{aligned}\text{Bobot Zat Aktif Bebas} &= 0.4053275737 \text{ ppm} \times 5 \text{ ml} \times 5 \\ &= 10,133189344 \text{ }\mu\text{g} \\ &= 0.0101331893 \text{ mg}\end{aligned}$$

$$\begin{aligned}\%EE &= \frac{15 \text{ mg} - 0.0101331893 \text{ mg}}{15 \text{ mg}} \times 100 \% \\ &= 99.93\%\end{aligned}$$

5. F3 T1

$$\begin{aligned}
 \text{Konsentrasi} &= \frac{0,048 - 0,0237}{0,1389} \\
 &= 0,1749460043 \text{ ppm} \\
 \text{Bobot Zat Aktif Bebas} &= 0,1749460043 \text{ ppm} \times 5 \text{ ml} \times 5 \\
 &= 4,3736501079 \text{ } \mu\text{g} \\
 &= 0,0437365010 \text{ mg} \\
 \%EE &= \frac{15 \text{ mg} - 0,0437365010 \text{ mg}}{15 \text{ mg}} \times 100 \% \\
 &= 99,70\%
 \end{aligned}$$

6. F3 T30

$$\begin{aligned}
 \text{Konsentrasi} &= \frac{0,060 - 0,0237}{0,1389} \\
 &= 0,2613390928 \text{ ppm} \\
 \text{Bobot Zat Aktif Bebas} &= 0,2613390928 \text{ ppm} \times 5 \text{ ml} \times 5 \\
 &= 6,5334773218 \text{ } \mu\text{g} \\
 &= 0,0653347732 \text{ mg} \\
 \%EE &= \frac{15 \text{ mg} - 0,0653347732 \text{ mg}}{15 \text{ mg}} \times 100 \% \\
 &= 99,56 \%
 \end{aligned}$$

7. F4 T1

$$\begin{aligned}
 \text{Konsentrasi} &= \frac{0,006 - 0,0237}{0,1389} \\
 &= 0,1274298056 \text{ ppm} \\
 \text{Bobot Zat Aktif Bebas} &= 0,1274298056 \text{ ppm} \times 5 \text{ ml} \times 5 \\
 &= 3,1857451403 \text{ } \mu\text{g} \\
 &= 0,0031857451 \text{ mg}
 \end{aligned}$$

$$\begin{aligned}\%EE &= \frac{15 \text{ mg} - 0.0031857451 \text{ mg}}{15 \text{ mg}} \times 100 \% \\ &= 99.97 \%\end{aligned}$$

8. F4 T30

$$\begin{aligned}\text{Konsentrasi} &= \frac{0,062 - 0.0237}{0.1389} \\ &= 0.2757379409 \text{ ppm}\end{aligned}$$

$$\begin{aligned}\text{Bobot Zat Aktif Bebas} &= 0.2757379409 \text{ ppm} \times 5 \text{ ml} \times 5 \\ &= 6.8934485241 \text{ }\mu\text{g} \\ &= 0.068934485241 \text{ mg}\end{aligned}$$

$$\begin{aligned}\%EE &= \frac{15 \text{ mg} - 0.068934485241 \text{ mg}}{15 \text{ mg}} \times 100 \% \\ &= 99.40 \%\end{aligned}$$

9. F5 T1

$$\begin{aligned}\text{Konsentrasi} &= \frac{0,088 - 0.0237}{0.1389} \\ &= 0.4629229661 \text{ ppm}\end{aligned}$$

$$\begin{aligned}\text{Bobot Zat Aktif Bebas} &= 0.4629229661 \text{ ppm} \times 5 \text{ ml} \times 5 \\ &= 11.5730741525 \text{ }\mu\text{g} \\ &= 0.0115730741525 \text{ mg}\end{aligned}$$

$$\begin{aligned}\%EE &= \frac{15 \text{ mg} - 0.0115730741525 \text{ mg}}{15 \text{ mg}} \times 100 \% \\ &= 99.92 \%\end{aligned}$$

10. F5 T30

$$\begin{aligned}\text{Konsentrasi} &= \frac{0,055 - 0.0237}{0.1389} \\ &= 0.2253419726 \text{ ppm}\end{aligned}$$

$$\text{Bobot Zat Aktif Bebas} = 0.2253419726 \text{ ppm} \times 5 \text{ ml} \times 5$$

$$= 5.63354931605 \mu\text{g}$$

$$= 0.0563354931605 \text{ mg}$$

$$\%EE = \frac{15 \text{ mg} - 0.0563354931605 \text{ mg}}{15 \text{ mg}} \times 100 \%$$

$$= 99.62 \%$$

Lampiran 7. Hasil uji T-test berpasangan 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	F1_PSA_AMT_H1 - F1_PSA_AMT_H30	-194.8667	20.7310	11.9690	-246.3653	-143.3681	-16.281	2	.004
Pair 2	F2_PSA_AMT_H1 - F2_PSA_AMT_H30	-258.7333	61.2234	35.3473	-410.8207	-106.6460	-7.320	2	.018
Pair 3	F3_PSA_AMT_H1 - F3_PSA_AMT_H30	-257.7000	116.6823	67.3665	-547.5548	32.1548	-3.825	2	.062
Pair 4	F4_PSA_AMT_H1 - F4_PSA_AMT_H30	-658.3667	776.9088	448.5485	-2588.3150	1271.5817	-1.468	2	.280
Pair 5	F5_PSA_AMT_H1 - F5_PSA_AMT_H30	-596.0333	8.2646	4.7716	-616.5637	-575.5030	-124.914	2	.000
Pair 6	F1_PdI_AMT_H1 - F1_PdI_AMT_H30	-.13833	.04712	.02720	-.25539	-.02128	-5.085	2	.037
Pair 7	F2_PdI_AMT_H1 - F2_PdI_AMT_H30	-.13433	.18713	.10804	-.59919	.33052	-1.243	2	.340
Pair 8	F3_PdI_AMT_H1 - F3_PdI_AMT_H30	-.21433	.05811	.03355	-.35868	-.06999	-6.389	2	.024

Pair 9	F4_PdL_AMT_ H1 - F4_PdL_AMT_ H30	-.00333	.15599	.09006	-.39085	.38418	-.037	2	.974
Pair 10	F5_PdL_AMT_ H1 - F5_PdL_AMT_ H30	-.44833	.04950	.02858	-.57130	-.32537	-15.687	2	.004
Pair 11	F1_ZETA_AM T_H1 - F1_ZETA_AM T_H30	-7.40000	1.34536	.77675	-10.74207	-4.05793	-9.527	2	.011
Pair 12	F2_ZETA_AM T_H1 - F2_ZETA_AM T_H30	-10.23333	1.10151	.63596	-12.96965	-7.49702	-16.091	2	.004
Pair 13	F3_ZETA_AM T_H1 - F3_ZETA_AM T_H30	-13.56667	1.58219	.91348	-17.49705	-9.63628	-14.852	2	.005
Pair 14	F4_ZETA_AM T_H1 - F4_ZETA_AM T_H30	2.23333	.35119	.20276	1.36093	3.10573	11.015	2	.008
Pair 15	F5_ZETA_AM T_H1 - F5_ZETA_AM T_H30	-11.16667	2.01080	1.16094	-16.16178	-6.17155	-9.619	2	.011

Lampiran 8. Data karakterisasi NLC Kurkumin

Data Karakterisasi NLC Kurkumin T1			
Formula	Ukuran Partikel (nm)	Polidispersity Index (Pdl)	Zeta Potensial (mV)
F1	150,5 ± 0,08165	0,304 ± 0,01658	-55,23 ± 0,6236
F2	150,8 ± 0,08165	0,310 ± 0,02858	-60,83 ± 0,7930
F3	150,11 ± 0,0081	0,306 ± 0,04836	-59,03 ± 0,9285
F4	150,14 ± 0,0081	0,272 ± 0,00623	-55,80 ± 0,3741
F5	150,17 ± 0,0081	0,252 ± 0,25233	-57,66 ± 0,8576

Data Karakterisasi NLC Kurkumin T30			
Formula	Ukuran Partikel (nm)	Polidispersity Index (Pdl)	Zeta Potensial (mV)
F1	349,2 ± 12,9037	0,443 ± 0,0483	-47,83 ± 1,2229
F2	419,5 ± 52,4536	0,445 ± 0,1499	-50,60 ± 0,3559
F3	400,1 ± 90,5261	0,520 ± 0,0028	-45,46 ± 0,3681
F4	290,9 ± 90,2984	0,275 ± 0,1259	-58,03 ± 0,3681
F5	8,010 ± 736,433	0,700 ± 0,0377	-46,50 ± 0,8485

Lampiran 9. Gambar Alat

*Magnetic Stirrer**Filter Viva Spin 500 Kda**Particle Zetasizer Analysis**Hot Plate**Filter Viva Spin 500 Kda**Pengujian TEM Yogyakarta**Sentrifuga**Fortex**Timbangan*

Lampiran 10. Kartu Bimbingan



Fakultas Farmasi
Universitas
Bhakti Kencana

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

Jl. Soekarno Hatta No 754 Bandung
 ☎ 022 7830 760, 022 7830 768
 ✉ bku.ac.id 📧 contact@bku.ac.id



Fakultas Farmasi
Universitas
Bhakti Kencana

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

Jl. Soekarno Hatta No 754 Bandung
☎ 022 7830 760, 022 7830 768
✉ bku.ac.id contact@bku.ac.id

KARTU BIMBINGAN TUGAS AKHIR

Pembimbing Utama	: Dr. apt. Kamadi Jafar, M.si
Nama Mahasiswa	: Choemunisq
NPM	: 201FF03114
Bidang Ilmu	: Farmasetika Teknologi Farmasi (FTP)

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1.	10 Februari 2024	09.00	kampus uek	Optimasi Formulasi NLC	GP
2.	21 Februari 2024	14.00	kampus uek	Laporan Pembuatan blanko NLC	GP
3.	29 Februari 2024	13.00	kampus uek	Laporan kemajuan Pembuatan NLC	GP
4.	9 Maret 2024	10.00	kampus uek	Laporan pemakaian alat Vivaapth	GP
5.	16 Maret 2024	13.00	kampus uek	Laporan kemajuan karakteristik NLC	GP
6.	6 April 2024	13.00	kampus uek	Perubahan konsentrasi Formula NLC	GP
7.	20 April 2024	14.00	kampus uek	Kemajuan Formula NLC merapukan F. bany	GP
8.	29 April 2024	09.00	kampus uek	Pengujian PdI, ukuran Partikel, Zp.	GP
9.	30 April 2024	11.30	kampus uek	Laporan kemajuan, presentasi kemajuan.	GP
10.	02 Juli 2024	11.30	kampus uek	Lap. kemajuan & Perbaikan draft	GP
11.	10 Juli 2024	14.59	kampus uek	Lap. kemajuan & Perbaikan draft	GP

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

Lampiran 11. Cek Plagiarisme

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 Exclude bibliography ☒ On

Lampiran 12. Riwayat Hidup

**A. IDENTITAS**

Nama Lengkap : Choerrunisa
Jenis Kelamin : Perempuan
Tempat, Tanggal Lahir : Bandung, 10 Agustus 2002
No Telp : 087705411389
Email : icachoerrunisa.ic1@gmail.com
Alamat : Jalan Pandan Wangi 1 No 02, Rt 02/016, Ds.
Cibiru wetan, Kec. Cileunyi, Kab. Bandung, Jawa Barat, 40625

B. ORANG TUA

Nama Ayah : Inta Zaenudin
Nama Ibu : Aneng Susanti
Alamat : Jalan Pandan Wangi 1 No 02, Rt 02/016, Ds.
Cibiru wetan, Kec. Cileunyi, Kab. Bandung, Jawa Barat, 40625

C. RIWAYAT PENDIDIKAN

2017 – 2020 : MAN 2 Kota Bandung (MIPA)
2020 – 2024 : Universitas Bhakti Kencana (S1 Farmasi)