



LAMPIRAN

Lampiran 1. Determinasi

HERBARIUM JATINANGORIENSE
LABORATORIUM BIOSISTEMATIKA DAN MOLEKULER
DEPARTEMEN BIOLOGI, FMIPA UNPAD
Gedung D2-212, Jl. Raya Bandung Sumedang Km 21 Jatinangor
Telp. 022-7796412

LEMBAR IDENTIFIKASI TUMBUHAN
No.475/LBM/IT/XII/2024

Herbarium Jatinangor, Laboratorium Biosistemika dan Molekuler, Departemen Biologi FMIPA UNPAD, dengan ini menerangkan bahwa:

Nama : Devi Nuraeni
NPM : 211FF03037
Instansi : Universitas Bhakti Kencana
Telah melakukan identifikasi tumbuhan, dengan No. Koleksi: 594
Tanggal Koleksi : 2 Desember 2024
Lokasi : Bogor, Jawa Barat.

Hasil Identifikasi,

Nama Ilmiah : *Muntingia calabura* L.
Sinonim : *Muntingia glabra* Spreng.
Nama Lokal : Kersen
Suku/Famili : *Muntingiaceae* C.Bayer, M.W.Chase & M.F.Fay

Referensi:

Cronquist, Arthur. 1981. *An Integrated System of Classification of Flowering Plants*.
Columbia University Press. New York
World Flora Online(2021): <https://powo.science.kew.org/>.

Jatinangor, 20 Desember 2024

Mengetahui,
Kepala Laboratorium



Annisa, M.Si., Ph.D.
NIP. 197802042006042001

Identifikator,



Dr. Budi Irawan, M.Si
NIP. 197312281999031003

Lampiran 2. Certificate of Analysis PVP K-30

COA Code: JHNHPK30PG(USP41)0002

JHNH
JH Nanhang Life Sciences Co., Ltd.
Certificate of Analysis

Product Name	Povidone K30	Batch No.	PK30-220428F22	Date of Mfg	20220428
Quantity	4900KG	Packaging	25KG/ Fibre Drum	Expiry Date	20260427
Source	PVP Workshop	Reference	USP41		
No.	Items	Specification			Test Results
1.	Appearance	White or yellowish-white, hygroscopic powder			Complies
2.	Solubility	Freely soluble in water, ethanol 96%, methanol, very slightly soluble in acetone			Complies
3.	Identifications A, B, C, D, E	Positive			Complies
4.	Appearance of solution	Clear and NMT B ₁ , B ₂ , or B ₃			Complies
5.	pH	3.0-5.0			3.5
6.	K-value	27.0-32.4			29.7
7.	Aldehydes, ppm	≤ 500			21.6
8.	Peroxides, ppm	≤ 400			207
9.	Formic acid, %	≤ 0.5			0.3
10.	Hydrazine, ppm	≤ 1			<1
11.	Impurity A(1-vinylpyrrolidin-2-one), ppm	≤ 10			0.090
12.	Impurity B (2-pyrrolidone), %	≤ 3.0			1.1
13.	Heavy metals, ppm	≤ 10			<10
14.	Lead, ppm	≤ 10			<10
15.	Water, %	≤ 5.0			2.5
16.	Sulphated ash, %	≤ 0.1			0.08
17.	Nitrogen content, %	11.5 - 12.8			11.9
18.	* Total Aerobic Plate count, CFU/g	≤ 100			<10
19.	* Total Mold/Yeast count, CFU/g	≤ 100			<10
20.	* E.coli, CFU/g	Not detected			Complies
21.	* Staphylococcus Aureus, CFU/g	Not detected			Complies
22.	* Pseudomonas Aeruginosa, CFU/g	Not detected			Complies
23.	* Salmonella, CFU/g	Not detected			Complies

Note: The above tests with * are performed randomly.

Conclusion: Material meets the requirement for Povidone in USP41.

Completed by: Yang zhimin	Signature: <i>Yang zhimin</i>	Date: 19/5/2022
QC Manager: Tong Mengxin	Signature: <i>Tong Mengxin</i>	Date: 19/5/2022
Released by QA Manager: Zhang Ming	Signature: <i>Zhang Ming</i>	Date: 19/5/2022

Factory address: No.16 Luyin Road, Hi-Tech Industrial Zone, Quzhou, Zhejiang, 324004 P. R. China

Website: www.jh-nh.com E-mail: info@jh-nh.com Contact person: Zhang Ming Tel: + 86-0570-3883574

Lampiran 3. *Certificate of Analysis* Laktosa
DFE
pharma

DFE Pharma GmbH & Co. KG / PO Box 20 21 20 / D-47568 Goch

Page nr. 1/2

0811342880-900001-20231010-113640-2006-1420_FONT_31-000001

Certificate of Analysis

Customer number	: 160560	Lot/ Batchnumber	: 23174701
Delivery number	: 611342880	Date of production	: 03.06.2022
Delivery Date	: 24.10.2022	Expiry date	: 01.06.2025
Material number	: 0743826	Order number	: 15452851
Material description	: HMS Impalpable (NZ)		
	Milled lactose monohydrate		
	USP-NF, Ph.Eur., JP		
	Bag, PE liner, 25 kg net		

Analysis				
Chemical & Physical				
Characteristic	Method of analysis	Unit	Specification	Results
Infrared absorption spectrum / 3d A	USP-NF; Ph.Eur.; JP		Conforms to reference	Pass
Water / 1d D Ph.Eur.	USP-NF; Ph.Eur.; JP	%(m)	4.5-5.5	5.1
Appearance of solution	Ph.Eur.		Not more intensely coloured than ref BY7	Pass
Lactose colour of sol.	USP-NF; JP		Nearly colourless	Pass
Lactose clarity of sol.	USP-NF; Ph.Eur.; JP		Clear	Pass
UV-Abs. 1% sol. 210-220 nm	USP-NF; Ph.Eur.; JP		0.00-0.25	0.02
UV-Abs. 1% sol. 270-300 nm	USP-NF; Ph.Eur.; JP		0.00-0.07	0.00
UV-Abs. 10% sol. 400 nm	USP-NF; Ph.Eur.; JP		0.00-0.04	0.00
Acidity (0.1N NaOH/6g)	USP-NF; Ph.Eur.; JP	ml	0.0-0.4	0.2
Specific optical rotation (anhydrous bas	USP-NF; Ph.Eur.; JP	Degree	54.4-55.9	55.1
Heavy Metals	USP-NF; Ph.Eur.; JP		max 5 ppm	Pass
Loss on Drying (2 hrs, 80°C)	USP-NF; JP	%(m)	0.0-0.5	0.1
Residue on ignition / Sulfated ash	USP-NF; Ph.Eur.; JP	%(m)	0.0-0.1	<0.1
Microbiological				
Characteristic	Method of analysis	Unit	Specification	Results
Total Aerobic Micro Count	Pharmacopoeia Harmonized Methods	cfu/g	0-100	<100
Total Yeast & Mould Count	Pharmacopoeia Harmonized Methods	cfu/g	0-10	<10
Escherichia coli (10 g)	Pharmacopoeia Harmonized Methods		Negative	Negative
Salmonella (750g)	equal to ISO 6579		Negative	Negative
OTHERS				
Characteristic	Method of analysis	Unit	Specification	Results
Particle size <75 µm	Internal, ATM sonic sifter	%(m)	78-86	81
Particle size <180 µm	Internal, ATM sonic sifter	%(m)	>=98	99

Manufacturer: DFE Pharma GmbH & Co. KG, Goch, Germany (formerly named "DFV-Fonterra Excipients GmbH & Co. KG")

Lampiran 4. *Certificate of Analysis* Asam Tartat**CERTIFICATE OF ANALYSIS****MARKS & NOS.****INVOICE NO.:2024NCRIH3066****DATE:JUN 13, 2024****N/M****DL-TARTARIC ACID****BATCH NUMBER****AB2406050****DESCRIPTION****WHITE CRYSTALLINE POWDER****CONTENT****99.87%****SULPHATE****PASSED****HEAVY METALS****< 0.001%****ARSENIC****< 0.0003%****LOSS ON DRYING****0.33%****RESIDUE ON IGNITION****0.036%****QUANTITY****21000KGS****CONCLUSION****ACCORDING TO FOOD GRADE(ANHYDROUS) STANDARD****PRODUCTION DATE****JUN 10, 2024****EXPIRY DATE****JUN 09, 2026**

Lampiran 5. *Certificate of Analysis* Natrium Bikarbonat

CERTIFICATE OF ANALYSIS		
		ORIGINAL
		DATE: OCT 19, 2023
CONSIGNEE: TO WHOM IT MAY CONCERN		
BENEFICIARY: INNER MONGOLIA IHJUCHEM INDUSTRIAL CO., LTD		
3 RD FLOOR NO.20 BUILDING YITAI PRINCE MANTION, WANTONG ROAD, RUYI DIST, HOHHOT CHINA		
COMMODITY: SODIUM BICARBONATE MALAN BRAND 99% MIN.		
MARKS & NUMBERS: N/M		
MANUFACTURING DATE: 20230910		
EXP. DATE: 20250909		
LOT NO: 20230910		
THIS IS TO CERTIFY THAT WE, THE BENEFICIARY, HAVE INSPECTED THE QUALITY OF THE ABOVE MENTIONED GOODS UNDER THE CHINESE STANDARD GB1887-2007 AND FOUND THE RESULT OF INSPECTION AS FOLLOWS:		
ITEM	SPECIFICATION	RESULT
Total Alkalinity (As NaHCO_3)	99% MIN.	99.99%
Chloride (Cl)	0.4% MAX.	0.01%
ARSENIC (AS)	0.0001% MAX.	0.000095%
HEAVY METALS (PB)	0.0005% MAX.	0.00046%
LOSS ON DRYING	0.20% MAX.	0.08%
PH VALUE	8.5 MAX.	8.1
NH4	0	0

内蒙古博源国际贸易有限责任公司
 INNER MONGOLIA IHJUCHEM
 INDUSTRIAL CO., LTD
 刘宝书

Lampiran 6. Skrining Fitokimia

Skrining Fitokimia Ekstrak Daun Kersen				
				
				
Alkaloid	Flavonoid	Tanin	Saponin	Steroid/ Triterpenoid

Lampiran 7. Pembuatan Mikrokapsul

		
Mikrosfer	Mikrokapsul (<i>coating</i>)	Hasil Mikrokapsul

Lampiran 8. Evaluasi Mikrokapsul

		
Laju alir	Sudut istirahat	Kompresibilitas

Lampiran 9. Evaluasi Ukuran Partikel Mikrokapsul

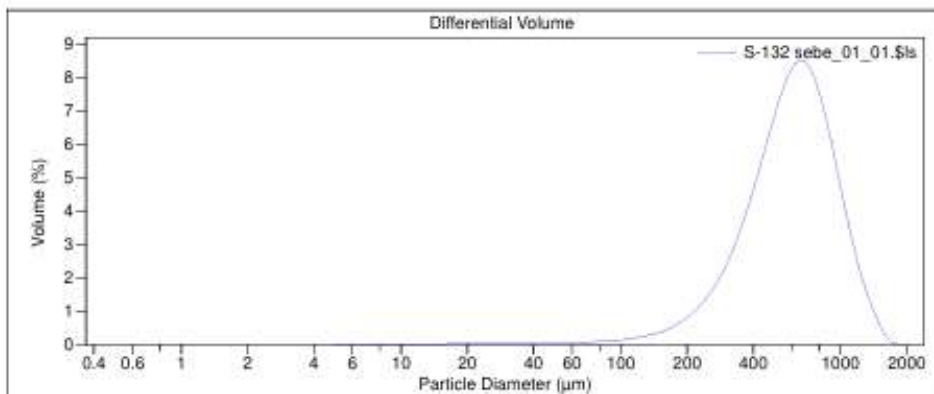
Sebelum *coating*

LS Particle Size Analyzer

25 Mar 2025 9:57

Beckman Coulter LS 13 320

File name: D:\Pengujian sampel\2025\Maret\Dry sample\S-132 sebe_01_01.\$ls
 S-132 sebe_01_01.\$ls
 File ID: S-132 sebelum coating
 Sample ID: S-132 sebelum coating
 Operator: Anggun
 Run number: 1
 Optical model: Fraunhofer.rf780f
 Residual: 0.34%
 LS 13 320: Dry Powder System
 Start time: 9:56 25 Mar 2025 Run length: 15 seconds
 Average Vacuum: 16.2" H₂O
 Obscuration: 3%
 Software: 6.01 Firmware: 4.00



Volume Statistics (Arithmetic) S-132 sebe_01_01.\$ls

Calculations from 0.375 μm to 2000 μm

Volume:	100%	S.D.:	279.2 μm
Mean:	636.2 μm	Variance:	77966 μm ²
Median:	607.8 μm	C.V.:	43.9%
Mean/Median ratio:	1.047	Skewness:	0.548 Right skewed
Mode:	684.2 μm	Kurtosis:	0.225 Leptokurtic

d ₁₀ :	301.1 μm	d ₅₀ :	607.8 μm	d ₉₀ :	1016 μm
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<10%	<25%	<50%	<75%	<90%
301.1 μm	436.4 μm	607.8 μm	806.3 μm	1016 μm



LS Particle Size Analyzer

25 Mar 2025 9:57

Beckman Coulter LS 13 320

S-132 aeba_01_01.s1a			
Channel Diameter (Lower) µm	Diff. Volume %	Channel Diameter (Lower) µm	Diff. Volume %
0.375	0	309.6	2.84
0.412	0	339.9	3.55
0.452	0	373.1	4.38
0.496	0	409.6	5.29
0.545	0	449.7	6.25
0.598	0	493.6	7.17
0.657	0	541.9	7.95
0.721	0	594.9	8.44
0.791	0	653.0	8.51
0.869	0	716.9	8.10
0.954	0	786.9	7.25
1.047	0	863.9	6.09
1.149	0	948.3	4.80
1.261	0	1041	3.53
1.385	0	1143	2.43
1.520	0	1255	1.54
1.669	0	1377	0.86
1.832	0	1512	0.30
2.011	0	1660	0.024
2.208	0	1822	0
2.423	0	2000	
2.650	0		
2.920	0		
3.206	0.000065		
3.519	0.000065		
3.863	0.0014		
4.241	0.0020		
4.656	0.0027		
5.111	0.0035		
5.611	0.0042		
6.159	0.0050		
6.761	0.0057		
7.422	0.0064		
8.148	0.0071		
8.944	0.0078		
9.819	0.0088		
10.78	0.0100		
11.83	0.011		
12.99	0.013		
14.26	0.015		
15.65	0.017		
17.18	0.018		
18.86	0.019		
20.71	0.020		
22.73	0.021		
24.95	0.024		
27.39	0.027		
30.07	0.030		
33.01	0.033		
36.24	0.034		
39.78	0.034		
43.67	0.034		
47.94	0.037		
52.63	0.044		
57.77	0.053		
63.42	0.063		
69.62	0.072		
76.43	0.083		
83.90	0.098		
92.10	0.12		
101.1	0.15		
111.0	0.19		
121.8	0.24		
133.7	0.30		
146.8	0.38		
161.2	0.49		
176.9	0.64		
194.2	0.84		
213.2	1.08		
234.1	1.38		
256.9	1.76		
282.1	2.24		

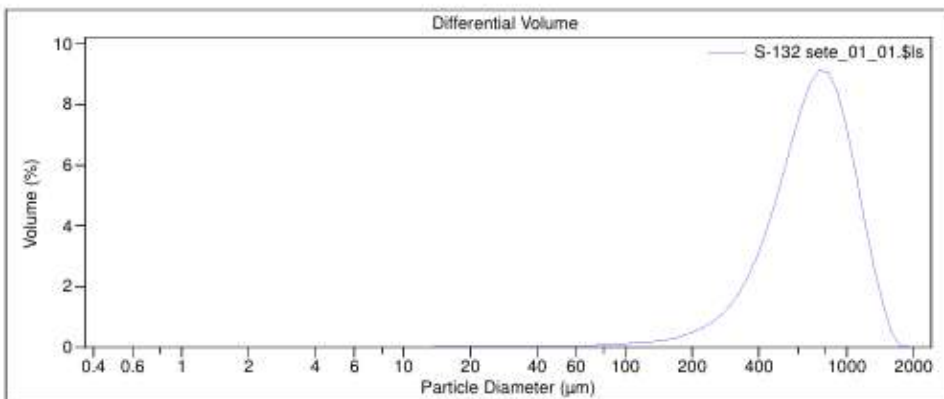
Setelah *coating*

LS Particle Size Analyzer

25 Mar 2025 10:03

Beckman Coulter LS 13 320

File name: D:\Pengujian sampel\2025\Maret\Dry sample\S-132 sete_01_01.\$ls
 S-132 sete_01_01.\$ls
 File ID: S-132 setelah coating
 Sample ID: S-132 setelah coating
 Operator: Anggun
 Run number: 1
 Optical model: Fraunhofer.r1780f
 Residual: 0.34%
 LS 13 320 Dry Powder System
 Start time: 10:02 25 Mar 2025 Run length: 13 seconds
 Average Vacuum: 15.5" H2O
 Obscuration: 2%
 Software: 6.01 Firmware: 4.00



Volume Statistics (Arithmetic) S-132 sete_01_01.\$ls

Calculations from 0.375 µm to 2000 µm

Volume:	100%	S.D.:	294.0 µm
Mean:	728.0 µm	Variance:	86447 µm ²
Median:	708.1 µm	C.V.:	40.4%
Mean/Median ratio:	1.028	Skewness:	0.317 Right skewed
Mode:	751.1 µm	Kurtosis:	-0.143 Platykurtic

d ₁₀ :	363.1 µm	d ₅₀ :	708.1 µm	d ₉₀ :	1127 µm
<10%	<25%	<50%	<75%	<90%	
363.1 µm	518.4 µm	708.1 µm	920.2 µm	1127 µm	



LS Particle Size Analyzer

25 Mar 2025 10:03

Beckman Coulter LS 13 320

S-132 auto_01_01.sis			
Channel Diameter (Lower) µm	Diff. Volume %	Channel Diameter (Lower) µm	Diff. Volume %
0.375	0	309.6	1.75
0.412	0	339.9	2.28
0.452	0	373.1	2.94
0.496	0	409.6	3.74
0.545	0	449.7	4.68
0.598	0	493.6	5.74
0.657	0	541.9	6.84
0.721	0	594.9	7.87
0.791	0	653.0	8.69
0.869	0	716.9	9.13
0.954	0	786.9	9.05
1.047	0	863.9	8.43
1.149	0	948.3	7.30
1.261	0	1041	5.82
1.385	0	1143	4.23
1.520	0	1255	2.74
1.669	0	1377	1.54
1.832	0	1512	0.52
2.011	0	1660	0.043
2.208	0	1822	0
2.423	0	2000	
2.650	0		
2.920	0		
3.206	0		
3.519	0		
3.863	0		
4.241	0		
4.656	0		
5.111	0		
5.611	0		
6.159	0		
6.761	0		
7.422	0		
8.148	0		
8.944	0		
9.819	0		
10.78	0		
11.83	0.000093		
12.99	0.0013		
14.26	0.0040		
15.65	0.0069		
17.18	0.0098		
18.86	0.012		
20.71	0.013		
22.73	0.013		
24.95	0.012		
27.39	0.011		
30.07	0.011		
33.01	0.012		
36.24	0.017		
39.78	0.025		
43.67	0.034		
47.94	0.041		
52.63	0.046		
57.77	0.049		
63.42	0.054		
69.62	0.063		
76.43	0.077		
83.90	0.095		
92.10	0.11		
101.1	0.13		
111.0	0.15		
121.8	0.17		
133.7	0.20		
146.8	0.25		
161.2	0.31		
176.9	0.39		
194.2	0.50		
213.2	0.64		
234.1	0.81		
256.9	1.04		
282.1	1.34		

Lampiran 10. Evaluasi *Effervescent*

		
		
		
<i>Loss on Drying</i>	Tinggi Buih	pH

		
Kompresibilitas	Waktu Larut	Laju Alir & Sudu Istirahat

Lampiran 11. Hasil Aktivitas Antioksidan

Vitamin C

Konsentrasi (ppm)	Abs kontrol	Abs.sampel			Rata-rata	% inhibisi			Rata-rata	IC50			Rata-rata IC50	SD
		1	2	3		1	2	3		1	2	3		
1	0,80	0,64	0,64	0,64	0,64	19,80	20,04	20,42	20,09	7,51	7,47	7,44	7,47	0,03
2	0,80	0,60	0,60	0,60	0,60	25,37	25,49	25,61	25,49					
3	0,80	0,56	0,56	0,56	0,56	29,70	30,07	30,32	30,03					
4	0,80	0,53	0,53	0,52	0,53	34,15	34,40	34,52	34,36					
5	0,80	0,49	0,49	0,49	0,49	38,61	38,86	39,10	38,86					
6	0,80	0,46	0,46	0,46	0,46	42,82	42,94	43,06	42,94					

Ekstrak

Konsentrasi (ppm)	Abs kontrol	Abs.sampel			Rata-rata	% inhibisi			Rata-rata	IC50			Rata-rata IC50	SD
		1	2	3		1	2	3		1	2	3		
10	0.81	0,60	0,60	0,60	0,60	25,67	25,80	25,55	25,67	32,67	32,66	32,68	32,67	0,01
20	0.81	0,51	0,51	0,51	0,51	36,91	36,79	36,66	36,79					
30	0.81	0,42	0,42	0,42	0,42	47,03	47,28	47,16	47,16					
40	0.81	0,32	0,32	0,32	0,32	59,50	59,62	59,75	59,62					
50	0.81	0,24	0,24	0,24	0,24	70	69,75	69,87	69,87					
60	0.81	0,20	0,20	0,20	0,20	75,18	75,06	75,30	75,18					

Mikrokapsul

Konsentrasi (ppm)	Abs kontrol	Abs.sampel			Rata-rata	% inhibisi			Rata-rata	IC50			Rata-rata IC50	SD
		1	2	3		1	2	3		1	2	3		
10	0,81	0,63	0,63	0,63	0,63	21,48	21,60	21,23	21,44	38,01	37,66	37,78	37,82	0,18
20	0,81	0,56	0,56	0,57	0,56	30,24	29,87	29,62	29,91					
30	0,81	0,44	0,44	0,44	0,44	45,06	44,81	45,30	45,06					
40	0,81	0,38	0,38	0,38	0,38	52,71	52,59	52,34	52,55					
50	0,81	0,30	0,30	0,30	0,30	62,22	62,09	61,97	62,09					
60	0,81	0,22	0,22	0,22	0,22	72,46	72,59	72,34	72,46					

Effervescent Formula I

Konsentrasi (ppm)	Abs kontrol	Abs.sampel			Rata-rata	% inhibisi			Rata-rata	IC50			Rata-rata IC50	SD
		1	2	3		1	2	3		1	2	3		
10	0,81	0,75	0,75	0,75	0,75	7,16	7,03	7,40	7,20	44,70	44,69	44,59	44,59	0.06
20	0,81	0,63	0,63	0,63	0,63	21,85	21,97	21,72	21,85					
30	0,81	0,53	0,54	0,54	0,53	33,95	33,70	33,82	33,82					
40	0,81	0,43	0,44	0,43	0,43	46,29	46,17	46,41	46,29					
50	0,81	0,36	0,36	0,36	0,36	55,18	55,30	55,43	55,30					
60	0,81	0,26	0,27	0,27	0,26	67,03	67,16	67,28	67,16					

Effervescent Formula II

Konsentrasi (ppm)	Abs kontrol	Abs Sampel			Rata-rata	% inhibisi			Rata-rata	IC50			Rata-rata IC50	SD
		1	2	3		1	2	3		1	2	3		
10	0,81	0,71	0,73	0,71	0,71	11,85	11,97	12,34	12,05	44,91	44,88	44,73	44,84	0,09
20	0,81	0,65	0,65	0,65	0,65	19,13	19,01	18,76	18,97					
30	0,81	0,53	0,53	0,53	0,53	33,58	33,58	33,70	33,62					
40	0,81	0,44	0,44	0,44	0,44	44,81	44,93	45,30	45,02					
50	0,81	0,37	0,37	0,37	0,37	53,58	53,45	53,70	53,58					
60	0,81	0,25	0,25	0,24	0,25	69,01	69,13	69,25	69,13					

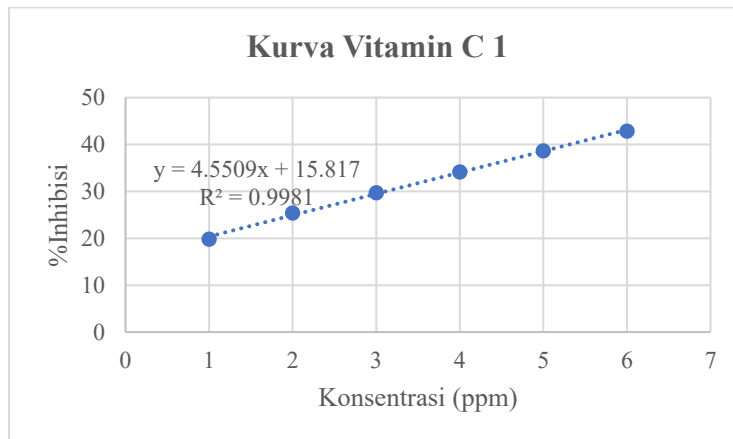
Effervescent Formula III

Konsentrasi (ppm)	Abs kontrol	Abs.sampel			Rata-rata	% inhibisi			Rata-rata	IC50			Rata-rata IC50	SD
		1	2	3		1	2	3		1	2	3		
10	0,81	0,77	0,77	0,77	0,77	4,32	4,56	4,44	4,44	46,71	46,73	46,67	46,70	0.03
20	0,81	0,66	0,66	0,66	0,66	18,14	18,02	18,02	18,02					
30	0,81	0,56	0,56	0,56	0,56	30	30,12	30,12	30,12					
40	0,81	0,47	0,47	0,47	0,47	41,11	40,98	41,11	41,11					
50	0,81	0,39	0,39	0,39	0,39	51,11	51,23	51,11	51,11					
60	0,81	0,25	0,25	0,25	0,25	68,64	68,51	68,64	68,64					

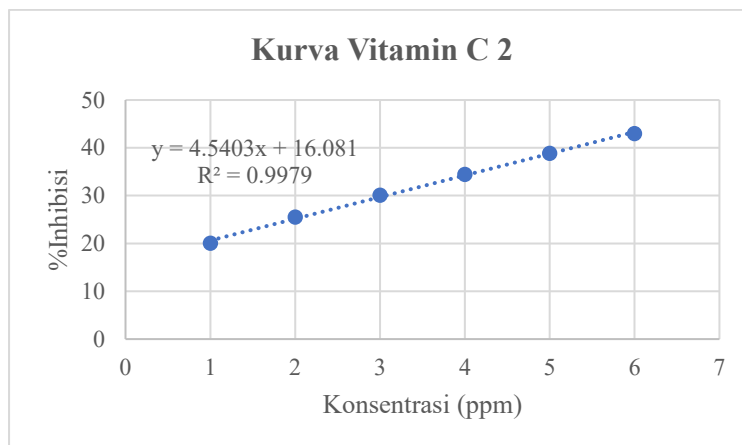
Lampiran 12. Kurva Hubungan Konsentrasi Dengan % Inhibisi Ekstrak Daun Kersen, Mikrokapsul, Sediaan *Effervescent* Formula I, II, Dan III

Vitamin C

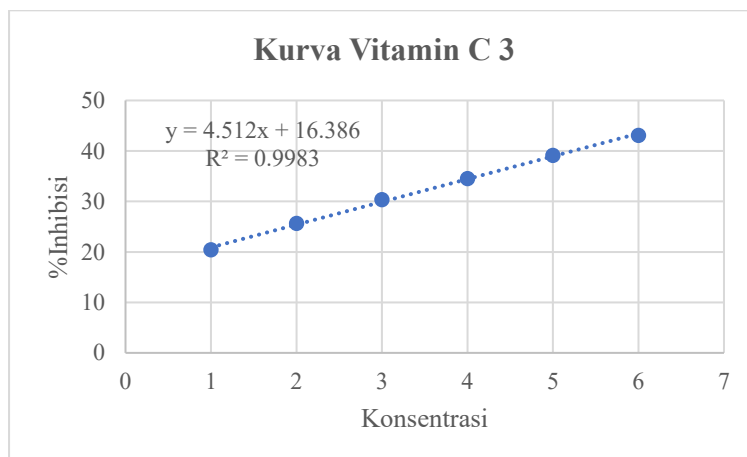
- Replikasi 1



- Replikasi 2

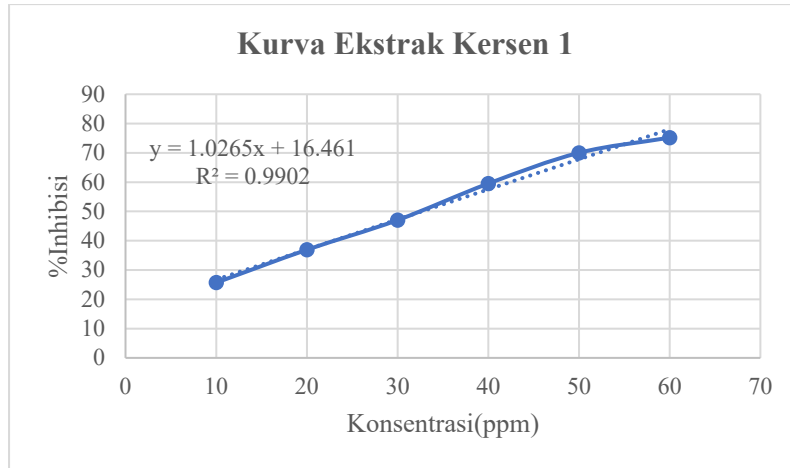


- Replikasi 3

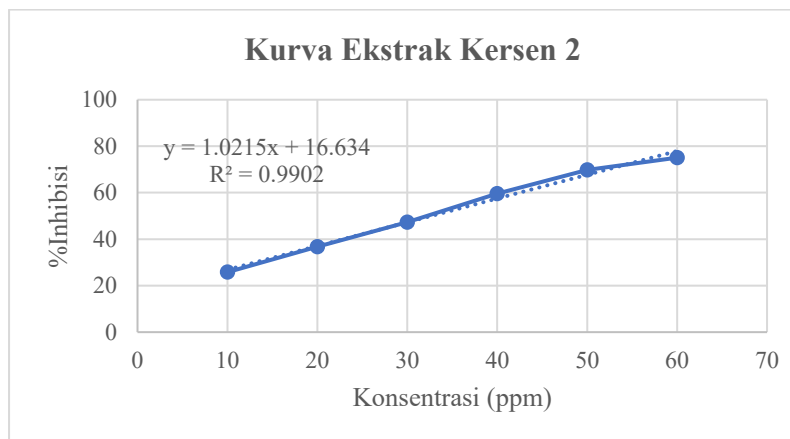


Ekstrak Daun Kersen

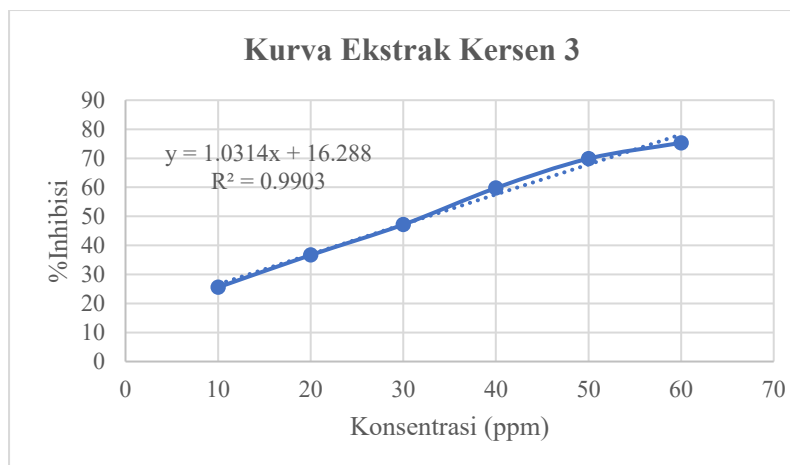
- Replikasi 1



- Replikasi 2

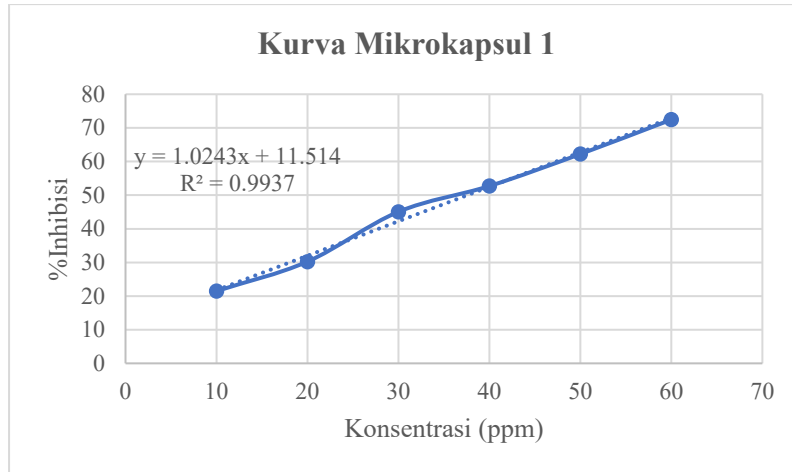


- Replikasi 3

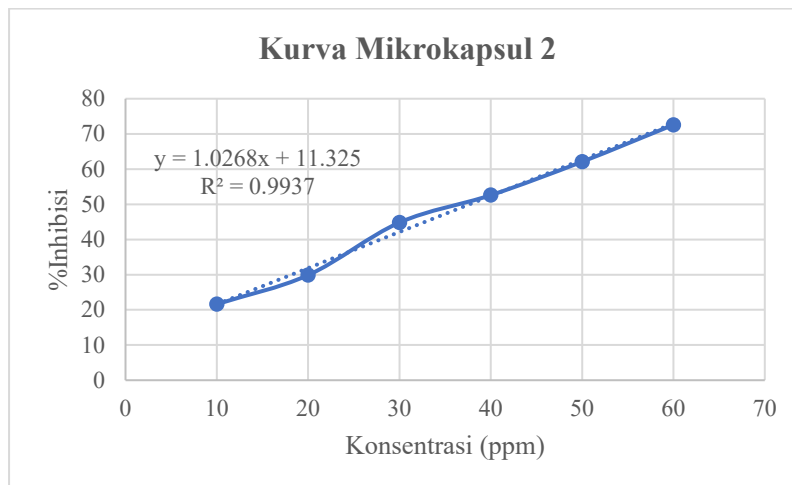


Mikrokapsul

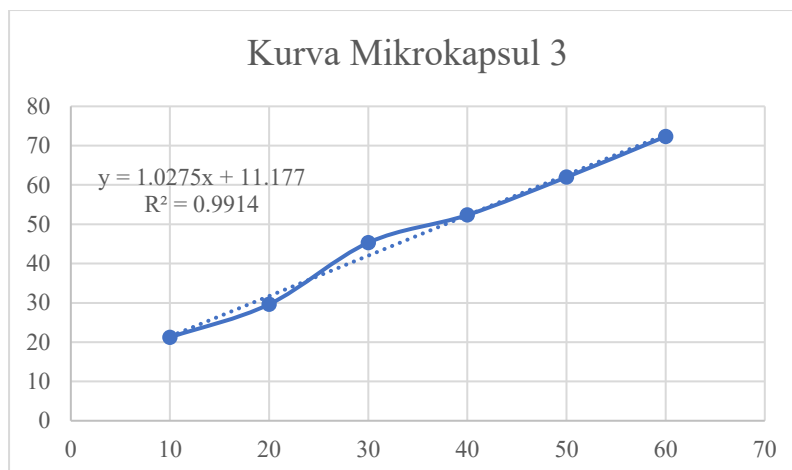
- Replikasi 1



- Replikasi 2

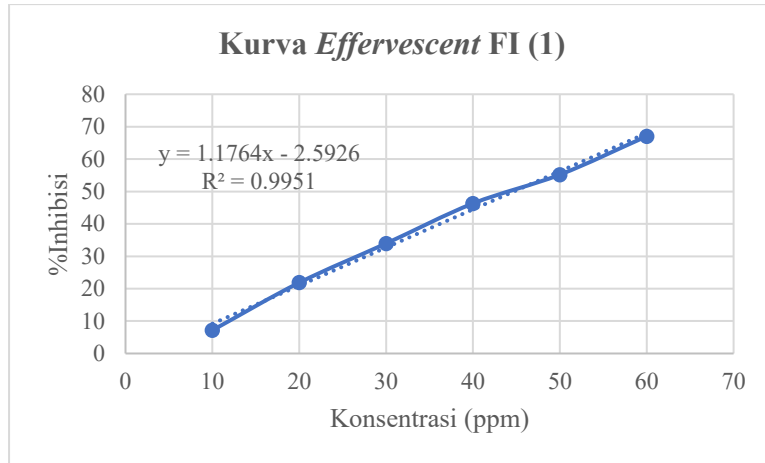


- Replikasi 3

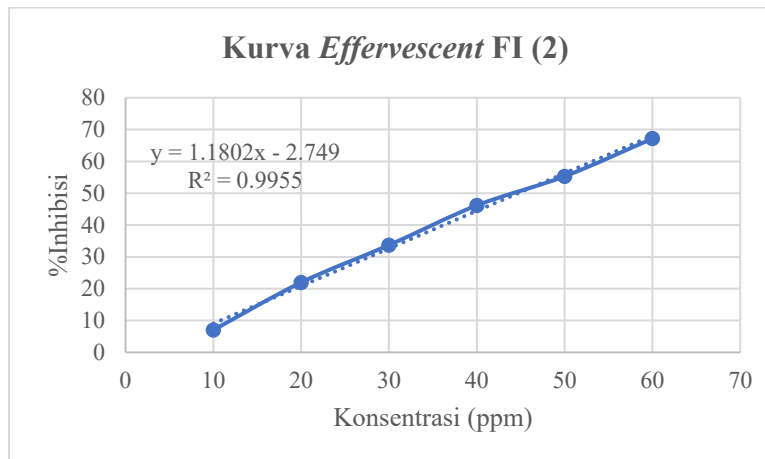


Effervescent Formula I

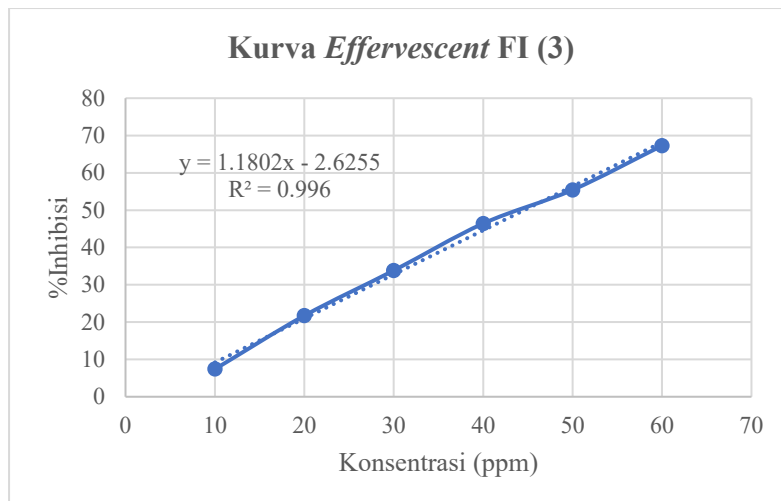
- Replikasi 1



- Replikasi 2

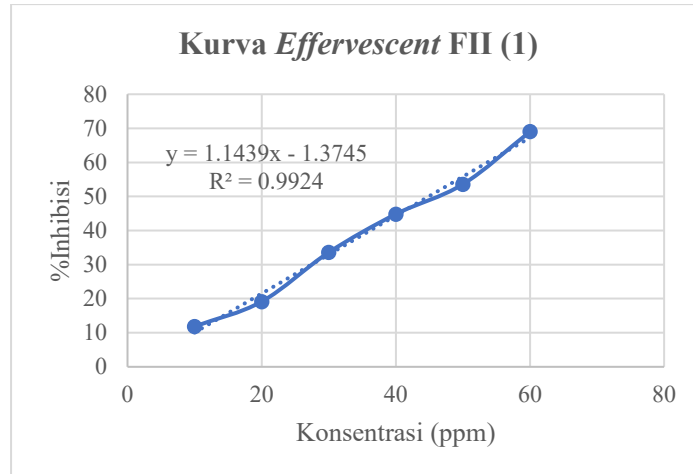


- Replikasi 3

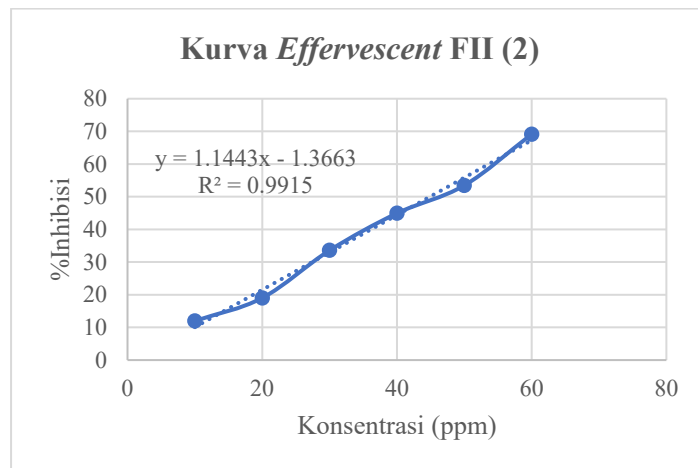


Effervescent Formula II

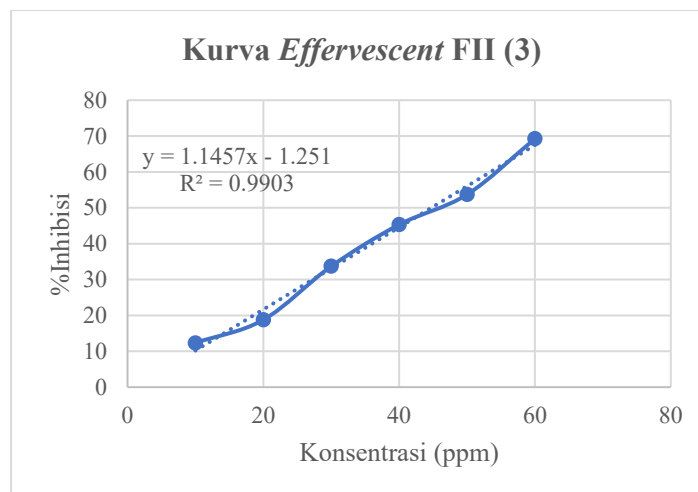
- Replikasi 1



- Replikasi 2

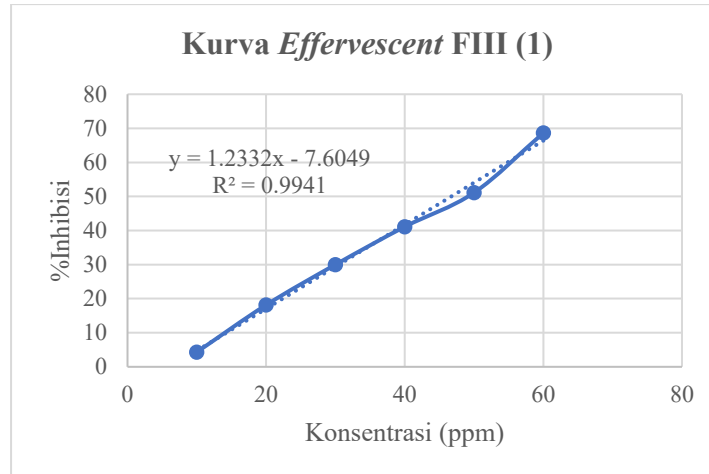


- Replikasi 3

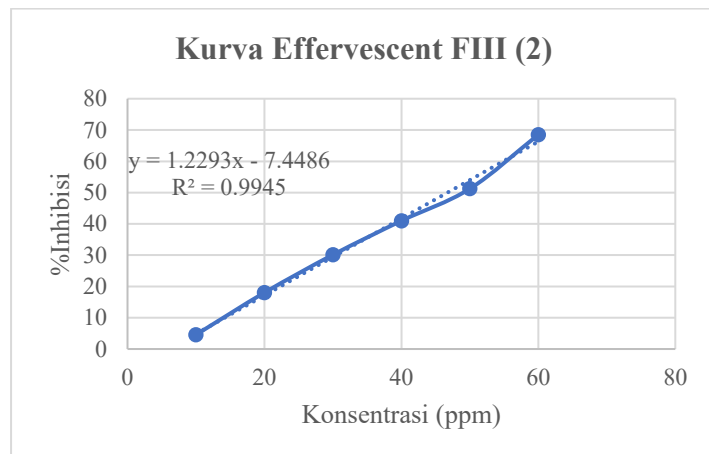


Effervescent Formula III

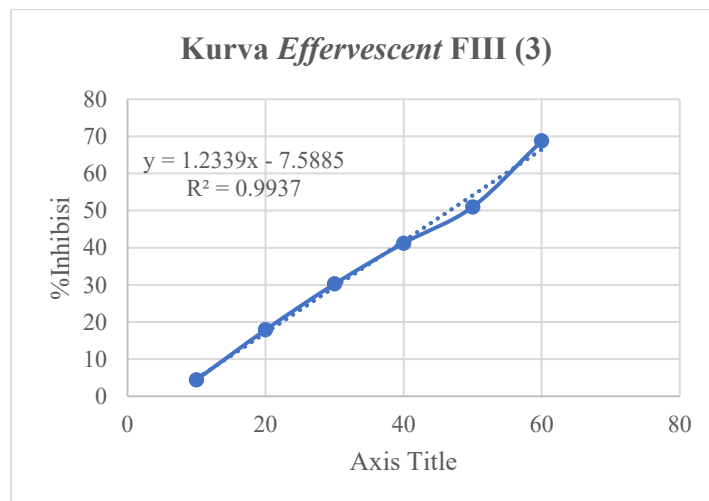
- Replikasi 1



- Replikasi 2



- Replikasi 3



Lampiran 13. Hasil Plagiarisme

DRAFT_SKRIPSI_DEVI_NURAENI-1754236913437			
ORIGINALITY REPORT			
3%	3%	1%	2%
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Lampiran 14. Kartu Bimbingan Tugas Akhir I

NIM	209F03037	Nama Mahasiswa	DENI NUBAENI
Program Studi	SI Farmasi	Jenis TA	Skripsi
SKS Lulus	145 SKS	Tgl. Pengajuan	7 Oktober 2024
Judul Ditajukan	pengembangan mikrokapsul dari bahan alam yang dibuat sedotan solid		

Data tidak bisa diubah, Status Pengajuan proposal sudah Disetujui

No	Tanggal	Pembimbing Proposal	Topik	Disetujui	Aksi
1	28 Oktober 2024	RAHMAT SANTOSO	pengajuan topik penelitian	✓	
1	5 Oktober 2024	BEZA PRATAMA, S.Farm., M.Farm.	perkenalan	✓	
2	30 Oktober 2024	RAHMAT SANTOSO	tema penelitian	✓	
2	9 Oktober 2024	BEZA PRATAMA, S.Farm., M.Farm.	penentuan topik penelitian	✓	
3	9 November 2024	RAHMAT SANTOSO	laporan kemajuan 1	✓	
3	17 Oktober 2024	BEZA PRATAMA, S.Farm., M.Farm.	penentuan metode	✓	
4	21 Oktober 2024	BEZA PRATAMA, S.Farm., M.Farm.	penentuan zat aktif	✓	
4	14 November 2024	RAHMAT SANTOSO	pengajuan bab 1	✓	
5	20 November 2024	RAHMAT SANTOSO	pengajuan bab 2	✓	
5	28 Oktober 2024	BEZA PRATAMA, S.Farm., M.Farm.	pengajuan bab 1	✓	
6	4 November 2024	BEZA PRATAMA, S.Farm., M.Farm.	Revisi Bab 1	✓	
6	29 November 2024	RAHMAT SANTOSO	pengajuan bab 3	✓	
7	7 November 2024	BEZA PRATAMA, S.Farm., M.Farm.	laporan kemajuan 1	✓	
7	21 Desember 2024	RAHMAT SANTOSO	seminar III	✓	
8	35 November 2024	BEZA PRATAMA, S.Farm., M.Farm.	pengajuan bab 2	✓	
8	17 Januari 2025	RAHMAT SANTOSO	bab 1-3	✓	
9	28 November 2024	BEZA PRATAMA, S.Farm., M.Farm.	pengajuan bab 3	✓	
10	4 Desember 2024	BEZA PRATAMA, S.Farm., M.Farm.	revisi bab 1-3	✓	
11	21 Desember 2024	BEZA PRATAMA, S.Farm., M.Farm.	seminar XX	✓	
12	10 Januari 2025	BEZA PRATAMA, S.Farm., M.Farm.	revisi	✓	
13	14 Januari 2025	BEZA PRATAMA, S.Farm., M.Farm.	revisi	✓	

Lampiran 15. Kartu Bimbingan Tugas Akhir II

NIM	2019FD037	Nama Mahasiswa	DEVI NUBAHI
Program Studi	SI Farmasi	Jenis TA	Skripsi
Periode Mulai	2025 Ganjil	SKS Lulus	149 SKS
Tgl. Mulai	4 Maret 2025	Judul Tugas Akhir	Formulasi dan Evaluasi Mikrokapsul Ekstrak Daun Kersen Dalam Sediaan Effervescent Sebagai Antidiabetes
Tahap	Sidang Akhir/ Komprehensif (Ujian)	Status	Aktif

No	Tanggal	Dosen Pembimbing	Topik	Disetujui	Aksi
1	19 Februari 2025	RAHMAT SANTOSO	laporan hasil skrinling	✓	 
1	5 Februari 2025	REZA PRATAMA, S.Farm., M.Farm.	revisi setelah seminar proposal	✓	 
2	17 Maret 2025	RAHMAT SANTOSO	laporan hasil mikrokapsul	✓	 
2	10 Februari 2025	REZA PRATAMA, S.Farm., M.Farm.	bimbingan hasil skrinling fitokimia	✓	 
3	29 April 2025	RAHMAT SANTOSO	laporan hasil granul effervescent	✓	 
3	13 Maret 2025	REZA PRATAMA, S.Farm., M.Farm.	persiapan mikrokapsul	✓	 
4	5 Mei 2025	RAHMAT SANTOSO	kemajuan 1	✓	 
4	10 April 2025	REZA PRATAMA, S.Farm., M.Farm.	hasil mikrokapsul dan persiapan granul	✓	 
5	29 April 2025	REZA PRATAMA, S.Farm., M.Farm.	hasil effervescent dan data evaluasi	✓	 
5	15 Mei 2025	RAHMAT SANTOSO	laporan hasil antidiabetes	✓	 
6	22 Mei 2025	RAHMAT SANTOSO	revisi draft 2	✓	 
6	1 Mei 2025	REZA PRATAMA, S.Farm., M.Farm.	kemajuan 1	✓	 
7	20 Mei 2025	REZA PRATAMA, S.Farm., M.Farm.	revisi draft 1	✓	 
7	7 Mei 2025	REZA PRATAMA, S.Farm., M.Farm.	laporan hasil antidiabetes	✓	 
7	27 Mei 2025	RAHMAT SANTOSO	revisi draft 2	✓	 
8	26 Mei 2025	REZA PRATAMA, S.Farm., M.Farm.	revisi draft 3	✓	 
8	28 Mei 2025	RAHMAT SANTOSO	pengajuan hasil revisi	✓	 
9	30 Mei 2025	REZA PRATAMA, S.Farm., M.Farm.	presentasi dan revisi ppt	✓	 

Lampiran 16. Daftar Riwayat Hidup

DAFTAR RIWAYAT HIDUP

Nama Lengkap	: Devi Nuraeni
NPM	: 211FF03037
Jenis Kelamin	: Perempuan
Tempat/Tanggal Lahir	: Bogor, 24 Maret 2003
Agama	: Islam
Kewarganegaraan	: Indonesia
Alamat	: Kp. Kubang Rt 10/05, Desa Cipeucang, Kec. Cileungsi, Kab. Bogor, Jawa Barat
No. Telepon	: 085813790604
Email	: deviinuraeni24@gmail.com

RIWAYAT PENDIDIKAN

SD	: SDN Kubang 01
SMP	: MTS Yapida
SMA	: SMK Bahkti Kencana Bogor
S1	: Universitas Bhakti Kencana Bandung