

Lampiran 1. Surat Determinasi



Yogyakarta, 11 Juli 2024

No. : 144/LHD/07/2024
Hal : Hasil Determinasi

Kepada Yth.
Dhyta Muta'aaliya Muhlis
NIM : 201FF03049
Fakultas Farmasi Universitas Bhakti Kencana

Dengan hormat,
Bersama ini disampaikan hasil determinasi tumbuhan sesuai permintaan sebagai berikut:

No.	Nama jenis	Nama Lokal
1.	<i>Piper betle</i> L.	Sirih Hijau

Kunci Determinasi:

1a-2b-3b-4b-6b-7b-9a.

Golongan : Tumbuhan membelit atau memanjat... 1b-42b-43b-54b-59b-61b-62b-63a-64a....

Familia : Piperaceae 1. Genus *Piper*. 1a Spesies *Piper betle* L. (Sirih)

Kingdom : Plantae
Subkingdom : Tracheobionta
Superdivisio : Spermatophyta
Divisio : Magnoliophyta
Classis : Dicotyledoneae
Ordo : Piperales
Familia : Peperaceae
Genus : Piper
Species : *Piper betle* L. (Sirih Hijau)

Demikian semoga berguna bagi saudara.

Divisi Teknik-Galenika


Apriyani Susilowati, S.Si.

Lampiran 2. Kartu Bimbingan



Fakultas Farmasi
Universitas
Bhakti Kencana

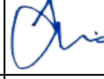
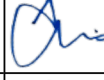
Dok. No. 02.64.00/FRM-03/AKD-SPMI

Jl. Soekarno Hatta No 754 Bandung
☎ 022 7830 760, 022 7830 768
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KARTU BIMBINGAN TUGAS AKHIR

Pembimbing Utama	Dr. Apt. Dadih Supriadi, M.Si.
Nama Mahasiswa	Dhyta Muta'aaliya Muhlis
NPM	201FF03049
Bidang Ilmu	Farmasetika Dan Teknologi Farmasi (FTF)

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1.	Jumat, 06 Oktober 2023	15.00	Kampus	Penyampaian ide tema penelitian	
2.	Jumat, 20 Oktober 2023	13.00	Online (whatsApp)	Diskusi tema penelitian	
3.	Senin, 23 oktober 2023	13.00	Kampus	Diskusi tema penelitian	
4.	Rabu, 25 oktober 2023	15.00	Online (<i>google meet</i>)	Diskusi tema penelitian	
5.	Senin, 30 oktober 2023		<i>Google drive</i>	Revisi Bab 1 pendahuluan : latar belakang	
6.	Kamis, 02 november 2023	15.00	kampus	Diskusi zat aktif yang akan digunakan	
7.	Senin, 06 november 2023		<i>Google drive</i>	Revisi Bab 1 pendahuluan : latar belakang	
8.	Sabtu, 11 november 2023		<i>Google drive</i>	Revisi Bab 1 pendahuluan : latar belakang	
9.	Jumat, 17 november 2023		<i>Google drive</i>	Revisi Bab 1 pendahuluan : latar belakang, tujuan peneltian dan rumusan masalah	
10.	Kamis, 4 Januari 2024		Zoom Meeting	Revisi Bab 2 dan 3	
11.	Rabu, 21 Februari 2024	13.30	Kampus	Diskusi terkait penelitian	

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
12.	Rabu, 20 Maret 2024	13.00	Kampus	Diskusi progress penelitian	
13.	Kamis, 25 April 2024	15.00	Offline (kampus)	Laporan kemajuan 1 tugas akhir II	
14.	Senin, 20 Mei 2024	11.30	Offline (kampus)	Laporan hasil pembuatan sediaan patch	
15.	Kamis, 30 Mei 2024	15.30	Online (zoom meeting)	Laporan kemajuan 2	
16.	Kamis, 06 Juni 2024	13.30	Kampus	Diskusi progres penelitian	
17.	Rabu, 12 Juni 2024	14.30	Kampus	Diskusi terkait hasil antibakteri	
18.	Rabu, 10 Juli 2024	13.30	Kampus	Bimbingan terkait hasil penelitian dan penyusunan bab IV	
19.	Kamis, 11 Juli 2024	13.00	Google Drive	Revisi Draft Skripsi	

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



KARTU BIMBINGAN TUGAS AKHIR

Pembimbing Serta	apt. Deny Puriyani Azhary, M.Si
Nama Mahasiswa	Dhyta Muta'aaliya Muhlis
NPM	201FF03049
Bidang Ilmu	Farmasetika dan Teknologi Farmasi (FTF)

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1.	Sabtu, 11 November 2023	19.00	Zoom Meeting	Perkenalan dan penyampain tema, judul dan latar belakang	<i>Saerff</i>
2.	Sabtu, 11 November 2023	19.00	Zoom Meeting	Perkenalan dan penyampain tema, judul dan latar belakang	<i>Saerff</i>
3.	Rabu, 17 November 2023	11.08	Online	Kemajuan 1	<i>Saerff</i>
4.	Selasa, 19 Desember 2023	08.53	Online	Diskusi mengenai prosedur	<i>Saerff</i>
5.	Kamis, 28 Desember 2023	11.00	Online	Revisi kemajuan 2	<i>Saerff</i>
6.	Jum'at, 29 Desember 2023	07.00	Online	Kemajuan 2	<i>Saerff</i>
7.	Sabtu, 30 desember 2023	08.00	Online	Diskusi mengenai rancangan formula	<i>Saerff</i>
8.	Selasa, 2 Januari 2024	09.00	Online	Mengenai isi dari bab 3	<i>Saerff</i>
9.	Kamis, 4 januari 2024	10.00	Online	Diskusi menganai prosedur	<i>Saerff</i>
10.	Sabtu, 6 januari 2024	09.00	Zoom	Diskusi mengenai draft proposal,	<i>Saerff</i>
11.	Selasa, 30 April 2024	09.00	Online	Laporan kemajuan 1 Tugas akhir II	<i>Saerff</i>
12.	Senin, 20 Mei 2024	14.21	Online	Solusi mengenai cara mengilangkan gelembung	<i>Saerff</i>
13.	Kamis, 23 Mei 2024	13.00	Online	Kemajuan 2	<i>Saerff</i>
14.	Kamis, 30 Mei 2024	17.00	Online	Laporan revisi kemajuan 2	<i>Saerff</i>
15.	Senin, 10 Juli 2024	17.00	Online	Laporan uji aktivitas antibakteri	<i>Saerff</i>

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
16.	Rabu, 12 Juni 2024	11.08	Offline	Laporan progres penelitian	<i>[Signature]</i>
17.	Minggu, 7 Juli 2024	08.00	Online	Laporan hasil penelitian	<i>[Signature]</i>
18.	Rabu, 10 Juli 2024	09.00	Offline	Diskusi bab 4	<i>[Signature]</i>

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



Lampiran 3. Uji Aktivitas Antibakteri Ekstrak Daun Sirih Hijau

Tests of Normality^a

		Kolmogorov-Smirnov ^b			Shapiro-Wilk		
Sampel		Statistic	df	Sig.	Statistic	df	Sig.
Diameter	Kontrol positif	.196	3	.	.996	3	.878
	Ekstrak daun sirih hijau	.361	3	.	.807	3	.131

a. Diameter is constant when Sampel = Kontrol negatif. It has been omitted.

b. Lilliefors Significance Correction

Test of Homogeneity of Variances

Diameter

Levene Statistic	df1	df2	Sig.
4.318	4	10	.028

ANOVA

Diameter

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1317.156	4	329.289	462.485	.000
Within Groups	7.120	10	.712		
Total	1324.276	14			

Lampiran 4. Uji Keseragaman Bobot

Formula	Syarat	Rep 1	Rep 2	Rep 3	Rata – Rata $\pm$ SD	CV (%)
F0	Nilai CV $\leq 5\%$	23,5	24,4	24,7	24,2 $\pm$ 0,62	2,58
F1		23.5	24.5	24.3	24,1 $\pm$ 0,52	2,19
F2		23.7	24.4	23.5	23,8 $\pm$ 0,47	1,98
F3		-	-	-	-	-

Tests of Normality^b

	formulai	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
berat	formula 1	.292	3	.	.923	3	.463
	formula 2	.333	3	.	.861	3	.269
	formula 3	.304	3	.	.907	3	.407

a. Lilliefors Significance Correction

b. berat is constant when formula1 = formula 4. It has been omitted.

Test of Homogeneity of Variances

berat

Levene Statistic	df1	df2	Sig.
10.603	3	8	.004

ANOVA

berat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.001	3	.000	116.339	.000
Within Groups	.000	8	.000		
Total	.001	11			

Lampiran 4. Uji Ketahanan Lipat

Formula	Syarat	Replikasi 1	Replikasi 2	Replikasi 3	Rata – rata %SBR ± SB	
F0		477	469	475	473 ± 4	1
F1	>200x	459	460	468	462 ± 4	1,06
F2		488	480	489	485 ± 4	1,01
F3		-	-	-	-	-

Tests of Normality^b

	formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
jumlah_lipatan	formula_blanko	.253	3	.	.964	3	.637
	formula 1	.292	3	.	.923	3	.463
	formula 2	.349	3	.	.832	3	.194

a. Lilliefors Significance Correction

b. jumlah_lipatan is constant when formula = formula 3. It has been omitted.

Test of Homogeneity of Variances

jumlah_lipatan			
Levene Statistic	df1	df2	Sig.
3.449	3	8	.072

ANOVA

jumlah_lipatan					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	505461.667	3	168487.222	8530.999	.000
Within Groups	158.000	8	19.750		
Total	505619.667	11			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: jumlah_lipatan
Games-Howell

(I) formula	(J) formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
formula_blanko	formula 1	-12.333	4.269	.153	-30.92	6.26
	formula 2	-24.333*	4.534	.022	-43.20	-5.46
	formula 3	461.333*	3.528	.000	436.89	485.77
formula 1	formula_blanko	12.333	4.269	.153	-6.26	30.92
	formula 2	-12.000	3.727	.105	-27.39	3.39
	formula 3	473.667*	2.404	.000	457.01	490.32
formula 2	formula_blanko	24.333*	4.534	.022	5.46	43.20
	formula 1	12.000	3.727	.105	-3.39	27.39
	formula 3	485.667*	2.848	.000	465.93	505.40
formula 3	formula_blanko	-461.333*	3.528	.000	-485.77	-436.89
	formula 1	-473.667*	2.404	.000	-490.32	-457.01
	formula 2	-485.667*	2.848	.000	-505.40	-465.93

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

Lampiran 6. Uji Ketebalan

Formula	Syarat	Replikasi	Replikasi	Replikasi	Rata – Rata	%SBR
		1	2	3	+ SD	
F0	<1mm	30	40	30	33 ± 6	17
F1		30	40	30	33 ± 6	17
F2		20	30	20	23 ± 6	24
F3		-	-	-	-	-

Tests of Normality^{b,c}

	formulai	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
diameter	formula 1	.385	3	.	.750	3	.000
	formula 2	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

b. diameter is constant when formulai = formula 3. It has been omitted.

c. diameter is constant when formulai = formula 4. It has been omitted.

Test of Homogeneity of Variances

diameter

Levene Statistic	df1	df2	Sig.
10.667	3	8	.004

ANOVA

diameter

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.002	3	.001	44.667	.000
Within Groups	.000	8	.000		
Total	.002	11			

Lampiran 5. Uji Daya Serap Kelembapan

Formula	Kelembapan (%)			Syarat
	Rep 1	Rep 2	Rep 3	
F0	2.12	2.04	2.02	
F1	4.44	4	4.18	
F2	2.95	2.86	2,83	>10%
F3	0	0	0	

$$\text{Daya Serap Lembab} = \frac{\text{bobot akhir} - \text{bobot awa}}{\text{bobot awal}} \times 100\%$$

$$\text{Daya Serap Lembab F0.1} = \frac{0.0240 - 0.0235}{0.0240} \times 100\% = 2.1\%$$

$$\text{Daya Serap Lembab F0.2} = \frac{0.0244 - 0.0249}{0.0244} \times 100\% = 2,0\%$$

$$\text{Daya Serap Lembab F0.3} = \frac{0.0247 - 0.0252}{0.0247} \times 100\% = 2,0\%$$

$$\text{Daya Serap Lembab F1.1} = \frac{0.0135 - 0.0141}{0.0135} \times 100\% = 4,4\%$$

$$\text{Daya Serap Lembab F1.2} = \frac{0.0125 - 0.0130}{0.0125} \times 100\% = 4\%$$

$$\text{Daya Serap Lembab F1.2} = \frac{0.0191 - 0.0199}{0.0191} \times 100\% = 4,1\%$$

$$\text{Daya Serap Lembab F2.1} = \frac{0.0237 - 0.0244}{0.0237} \times 100\% = 2.9\%$$

$$\text{Daya Serap Lembab F2.2} = \frac{0.0244 - 0.0251}{0.0244} \times 100\% = 2.8\%$$

$$\text{Daya Serap Lembab F2.2} = \frac{0.0247 - 0.0254}{0.0247} \times 100\% = 2.8\%$$

Tests of Normality^b

		Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Formula	Statistic	df	Sig.	Statistic	df	Sig.
Kelembapan	Formula Blanko	.385	3	.	.750	3	.000
	Formula 1	.292	3	.	.923	3	.463
	Formula 2	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

b. Kelembapan is constant when Formula = Formula 3. It has been omitted.

Test of Homogeneity of Variances

Kelembapan

Levene Statistic	df1	df2	Sig.
6.794	3	8	.014

ANOVA

Kelembapan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	27.369	3	9.123	729.844	.000
Within Groups	.100	8	.013		
Total	27.469	11			

Lampiran 6. Uji Aktivitas Antibakteri Sediaan *Patch*

Konsentrasi Ekstrak	Replikasi (mm)			Rata – rata (mm)	Keterangan	Parameter kategori (mm)
	1	2	3			
Kontrol negatif	0	0	0	0	Tidak Aktif	Lemah (≤ 5)
Kontrol positif	22.3	26	24	24.1	Aktif	Sedang (6-10)
F0	0	0	0	0	Tidak Aktif	Kuat (11-20)
F2	8	7.8	8.5	8.1	Aktif	Sangat kuat
Pasaran	0	0	0	0	Tidak Aktif	(≥ 20)

Diameter Zona Hambat = $\frac{d_1+d_2}{2}$ - diameter cakram

Diameter Zona Hambat kontrol +. 1 = $\frac{27.8+26.9}{2}$ - 5 = 22.3

Diameter Zona Hambat kontrol +. 2 = $\frac{31.1+31.1}{2}$ - 5 = 26

Diameter Zona Hambat kontrol +. 3 = $\frac{28.9+29.1}{2}$ - 5 = 24

Diameter Zona Hambat formula 2. 1 = $\frac{30.9+31.1}{2}$ - 18 = 13

Diameter Zona Hambat formula 2. 2 = $\frac{20.2+19.5}{2}$ - 18 = 13.3

Diameter Zona Hambat formula 2. 3 = $\frac{20.4+20.9}{2}$ - 18 = 14.1

Tests of Normality ^{a,c,d}						
		Kolmogorov-Smirnov ^b			Shapiro-Wilk	
Sampel		Statistic	df	Sig.	Statistic	df
Diameter	Kontrol positif	.188	3	.	.998	3
	Formulasi 2	.276	3	.	.942	3

a. Diameter is constant when Sampel = Kontrol negatif. It has been omitted.

b. Lilliefors Significance Correction

c. Diameter is constant when Sampel = Formulasi blanko. It has been omitted.

d. Diameter is constant when Sampel = Patch di pasaran. It has been omitted.

Test of Homogeneity of Variances

Diameter

Levene Statistic	df1	df2	Sig.
7.987	2	6	.020

ANOVA

Diameter

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	964.422	2	482.211	2291.393	.000
Within Groups	1.263	6	.210		
Total	965.685	8			

Lampiran 7. Dokumentasi Kegiatan

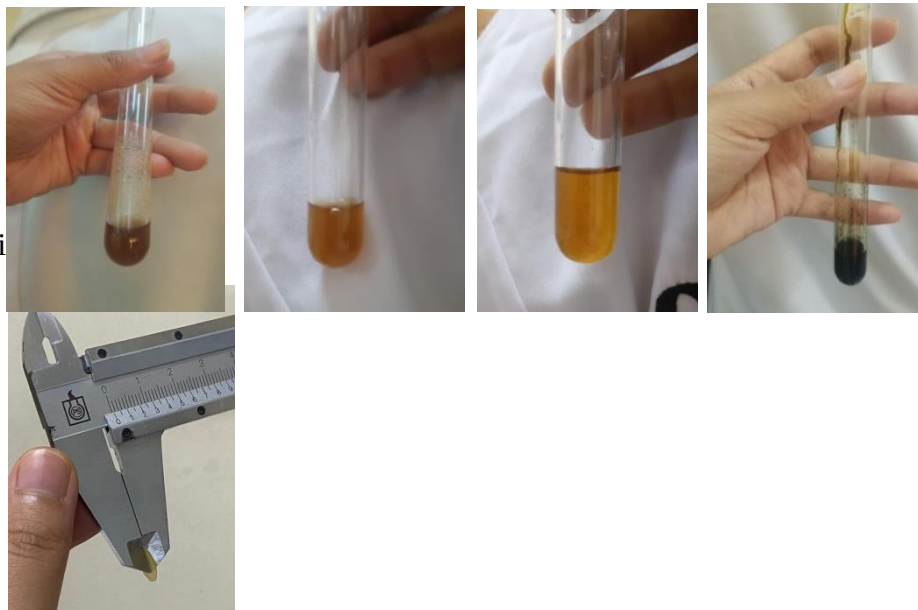
a. Ekstraksi daun sirih hijau



a. skrining fitokimia



b. Uji



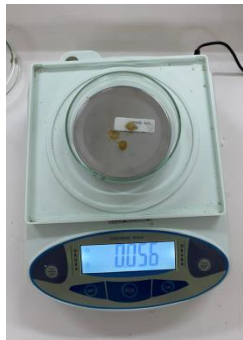
c. Uji pH



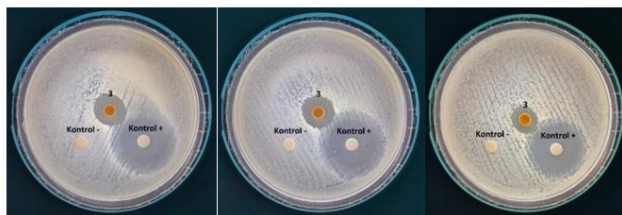
d. Uji Daya Serap Lembab



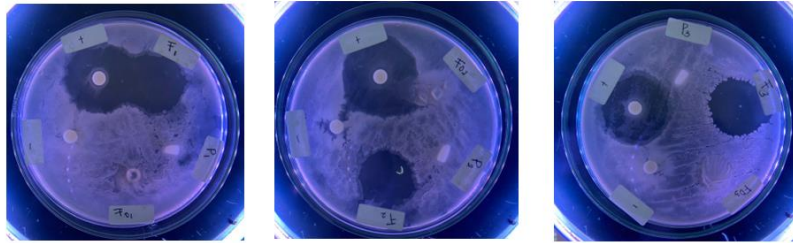
e. Keseragaman bobot



f. Uji Aktivitas Antibakteri Ekstrak Etanol Daun Sirih Hijau



g. Uji Aktivitas Antibakteri ediaan *Patch* Ekstrak Etanol Daun Sirih Hijau



Lampiran 8. Sertifikat Analisis Aquades

CERTIFICATE OF ANALYSIS

Product Name	: AQUADEST	Molecular Weight	: 18.02 g/mol
Catalog No.	: A-1078A	Batch No.	: 170621003
Grade	: Laboratory Reagent	Manufacturing Date	: June 17, 2021
Formula	: H ₂ O	Expire Date	: June, 2026
Cas No	: 7732 – 18 - 5		

NO	ITEM TEST	UNITS	SPECIFICATION	RESULT
1.	Appearance	–	Clear and free of visible particulate	Passes test
2.	Conductivity at 25 °C	uS/cm	≤ 4.3	0.21
3.	pH at 25 °C	–	5.0 – 7.5	6.56
4.	Turbidity	NTU	≤ 0.5	< 0.5
5.	Total Dissolve Solid (TDS)	ppm	≤ 0.5	0.25
6.	Residu on evaporation	ppm	≤ 1.0	NIL
7.	Total Organic Carbon (TOC)	ppm	≤ 50	< 50
8.	Total Hardness	ppm	≤ 0.1	NIL
9.	Chloride (Cl)	ppm	≤ 0.5	0.376
10.	Silica (as SiO ₂)	ppm	≤ 0.5	0.0559
11.	Iron (Fe)	ppm	≤ 0.1	0.0499
12.	Aromatic Hydrocarbon	ppm	Free of Hydrocarbon	NIL

Lampiran 9. Sertifikat Analisis Dmdm Hydantoin



NGUYEN BA TRADING AND MANUFACTURING CO. LTD

947/46/6 Cach Mang Thang 8 Street, Ward 7, Tan Binh District.

Tel: 39490974 – 39771039 – Fax: 39491374

Email: nguyenbachem@hotmail.com – Website: <http://nguyenbachem.com>

DMDM Hydantoin

Chemical name:

Dimethylol Dimethyl Hydantoin (DMDMH)

CAS NO: 6440-58-0**Trade name:**

Hydantoin, 1,3-bis(hydroxymethyl)-5,5-dimethyl-, 1,3-Bis(hydroxymethyl)-5,5-dimethylhydantoin; 1,3-dimethylol-5,5-dimethylhydantoin; 2,4-Imidazolidinedione, 1,3-bis(hydroxymethyl)-5,5-dimethyl-; Dantoin dmdmh 55; Dimethylol-5,5-dimethylhydantoin; DMDM hydantoin; dmdmh; dmdmh 55; Glydant; Nipaguard

Molecular formula: C₇H₁₂N₂O₄**Molecular weight:** 188.2**Introduction:**

DMDMH is biocide. The active ingredient provides broad-spectrum activity against common bacteria and fungi. It is approved by EPA and FDA for industrial and cosmetic applications.

Physical and Chemical Properties:

Percent Active: 55.0%

Description: Colorless liquid

PH: 6.5-7.5

Stability: Stable for 1 year @ 25 °C

Lampiran 10. Sertifikat Analisis Etanol 96%

CERTIFICATE OF ANALYSIS

Product Name	: Etanol 96%	Molecular Weight	: 46.07 g/mol
Catalog No.	: A-1042	Batch No.	: 08000188007
Grade	: Teknik Grade	Manufacturing Date	: November 08, 2018
Formula	: C_2H_5OH	Expire Date	: November 2025
Cas No	: 64-17-5	Recommended for a plastic container for 24 month from the date of pouring	

NO.	ITEM TEST	UNITS	SPECIFICATION	RESULT
1.	Appearance	—	Clear colorless liquid	Clear colorless liquid
2.	Assay (GC)	wt %	min 96.0	96.081
3.	Wt. Per ml at 20 °C	g/cm ³	0.789 – 0.792	0.790
4.	Colour	Hazen	max 10	< 10
5.	Refractive Index	n _D ²⁰	1.358 – 1.363	1.360
6.	Water (H ₂ O)	wt %	max 0.2	0.0741
7.	Non-volatile matter	wt %	max 0.001	0.00085
8.	Acidity (CH ₃ COOH)	wt %	max 0.0006	0.0003
9.	Alkalinity (NH ₃)	wt %	max 0.0002	0.00016
10.	Acetone, isopropyl alcohol	—	passes test	Passes test
11.	Methanol (CH ₃ OH)	wt %	max 0.1	0.01669
12.	Iron (Fe)	wt %	max 0.00002	< 0.00002
13.	Lead (Pb)	wt %	max 0.00005	< 0.00005
14.	Solubility in water	—	passes test	passes test
15.	Substances darkened (by H ₂ SO ₄)	—	passes test	passes test
16.	Substances Reducing KMnO ₄	—	passes test	passes test

Result : The above product corresponds to Teknik Grade

Reference or standard of product specification to Analar standard and ACS specification

Lampiran 11. Sertifikat Analisis HPMC



Certificate of Analysis (Representative Sample Certificate)

Product Name: Hydroxypropyl Methylcellulose
INCI Name: Hydroxypropyl methylcellulose
CAS Number: 9004-65-3
Lot Number: Not available (data may vary slightly with different lots or batches)
Expiration Date: 36 months from production date

Analytical Tests	Specification	Analysis
Appearance	Off-white to yellowish powder	pass
Odor	Characteristic	pass
Viscosity, 2% in water at 20°C	60,000-90,000	83,921
Moisture as packaged	<7.0%	2.5
Sodium Chloride	<5.0%	0.4
Particle Size, thru 40 U.S. Std. Sieve	>99	100

The above data were obtained using the test indicated and is subject to the deviation inherent in the test method. Results may vary under other test methods or conditions.

This report is not to be signed.

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Lampiran 12. Sertifikat Analisis PVP

Date 2023-12-05 (YYYY-MM-DD) Time 05:38:18 (Greenwich Mean Time) Page 1 of 4

 DOW CHEMICAL PACIFIC (SINGAPORE) PRIVATE LIMITED					
Certificate of Analysis					
Product Number	00000114877				
Product Name	Propylene Glycol USP/EP				
Delivery No.	826537519 / 000010				
Order Number	115576915				
Shipping Units	80.000 DR				
Date Shipped	2023-12-04 (YYYY-MM-DD)				
Shipment No.	43638424				
Batch Number	C815NBFP41				
Seal Number	THBB07556				
Expiration Date	2025-11-24 (YYYY-MM-DD)				
Manufacturing Date	2023-11-25 (YYYY-MM-DD)				
Quantity	80.000 DR				
Net Weight	17200.000 KG				
Manufacturing Plant	MTP AIE PG				
Manufacturer Address	10/4 Moo 2 ASIA IND EST BANCHANG Rayong 21130				
Manufacturer: Dow Chemical Thailand Ltd					
It is hereby certified that the material indicated above has been inspected and tested in accordance with the conditions and requirements of the contract or purchase order and, unless agreed otherwise conforms in all respects to the specification relevant thereto and it meets all requirements of the current United States Pharmacopoeia, current Food Chemical Codex, current European Pharmacopoeia and current Pharmacopoeia of Japan.					
Test	Unit	Lower Limit	Upper Limit	Value	Method
S Residue on Ignition USP	%	-	0.0070	0.0015	Current JP
Assay	%	99.80	-	99.97	Current USP
M Acidity	ml	-	0.20	0.01	Current USP
S Sulfated ash EP	%	-	0.0100	0.0015	Current JP
M Chlorides	ppm	-	70	< 70	Current USP
S Residue on Ignition FCC	%	-	0.0070	0.0015	Current JP

Lampiran 13. Sertifikat Analisis NaCl

CERTIFICATE OF ANALYSIS

Product Name : Sodium Chloride - AR
 Product Number : 16438

Formula : NaCl
 Molecular Weight : 58.44
 CAS No. : 7647-14-5

Batch No. : 2009301
 Best Before : 29.09.2025

<u>Analysis</u>	<u>Specification</u>	<u>Result</u>
Assay(as NaCl)	min. 99.8 %	99.87 %
Chlorides identification	passes test	passed
Sodium identification	passes test	passed
Acidity(0.01M NaOH)	< 0.5 ml	0.00 ml (max)
Alkalinity(0.01M HCl)	< 0.5 ml	0.35 ml (max)
Bromides(Br)	max. 0.01 %	passed
Ferrocyanides	passes test	passed
Iodides	passes test	passed
Nitrites	passes test	passed
Phosphate(PO_4)	max. 0.0025 %	passed
Sulphates(SO_4)	max. 0.02 %	passed
Aluminium(Al)	max. 0.00002 %	passed
Arsenic(As)	max. 0.0001 %	passed
Barium(Ba)	passes test	passed
Iron(Fe)	max. 0.0002 %	passed
Magnesium & Alkaline(0.01M EDTA)	< 2.5 ml	0.2 ml (max)
Potassium(K)	max. 0.05 %	0.0017 % (max)
Heavy metals(as Pb)	max. 0.0005 %	passed
Loss on drying(w/w)	max. 0.5 %	0.05 % (max)

Lampiran 14. Hasil Cek Plagiarisme

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Lampiran 15. Curriculum Vitae (CV)

DHYTA MUTA'AALIYA MUHLIS



Dhyta Muta'aaliya Muhlis adalah mahasiswa aktif dari Program Studi S1 Farmasi di Universitas Bhakti Kencana

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EDUCATION

SD Negeri 2 Jampang Kulon

SMP Negeri 1 Jampang kulon

SMA Negeri 1 Jampang kulon

Universitas Bhakti Kencana

SKILLS

Leadership

Public Speaking

Comunication

Team Work

Time Management

WORK EXPERIENCE

Anggota osis
SMP Negeri 1 Jampang kulon

Anggota Sanggar Seni Sasenti
SMP Negeri 1 Jampang kulon

Anggota English Student Club
SMA Negeri 1 Jampang kulon

Anggota Pharma Club
Universitas Bhakti Kencana

Studio Shodwe