

LAMPIRAN

Lampiran 1. Surat Determinasi



**LABORATORIUM BIOLOGI
FAKULTAS SAINS DAN TEKNOLOGI TERAPAN
UNIVERSITAS AHMAD DAHLAN**

SURAT KETERANGAN

Nomor : 399/Lab.Bio/B/VI/2025

Yang bertanda tangan di bawah ini Kepala Laboratorium Biologi Universitas Ahmad Dahlan menerangkan bahwa :

Nama : Fauzha Muftia Tohir
NIM : 2022142014
Prodi, PT : Farmasi, Universitas Sahid Surakarta

Telah melakukan determinasi daun tanaman di Laboratorium Biologi Universitas Ahmad Dahlan, pada tanggal 4 Juni 2025

Tanaman tersebut adalah :
Psidium guajava L.

Demikian Surat Keterangan ini untuk dapat dipergunakan seperlunya.

Yogyakarta, 5 Juni 2025

Kepala Laboratorium Biologi



Ichsan Luqmana Indra Putra, S. Si., M.Sc.

Lab. Biologi UAD Kampus IV (Utama)
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Lampiran 2. Surat Pengujian Bakteri

thermoscientific

F1

Certificate of Quality

Product Name: S. aureus ATCC 29213 PK/5
Lot Number: 161210

Product Number: R4607011
Expiration Date: 2022-04-14
 (YYYY-MM-DD)

This product has been manufactured, processed and packaged in accordance with Quality Systems Regulation, 21 CFR Part 820. Representative samples were tested per Remel Inc., a part of ThermoFisher Scientific Quality Control specifications and were found to meet performance criteria for this product.

Purity:
 Standardized aliquots of the rehydrated product are inoculated onto nonselective media and examined for pure growth following the appropriate incubation. Selective and Differential media are also tested where applicable.

Viability And Quantification:
 Each organism is recovered from the preserved state within the required time frame and at an acceptable level. Passage number is stated as the current preserved state.

Macroscopic And Microscopic Morphology:
 Colony morphology is consistent with documented referenced description.
 Traditional staining is performed.

Biochemical Analysis:
 Organism exhibits characteristic biochemical and/or enzymatic reactions. Automated and/or conventional testing was performed and results were within established limits. Antimicrobial testing performed where applicable. Results within expected ranges.

CFU/loop: >10(4)
Gram Reaction: Gram Positive Cocci

Passage: 4
Biochemical Profile: Vitek 2C GP

Appearance: Preserved Gel Matrix suspended in inoculating loop
pH: N/A

Signed
Time Williams
 Quality Assurance Supervisor

Remel Inc. 12076 Santa Fe Drive Lenexa KS 66215 800-255-6730 913-888-0939 www.thermofisher.com

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Lampiran 3. Penjemuran Daun Jambu Biji



Lampiran 4. Perhitungan Rendemen Simplisia

$$\begin{aligned}\text{Rendemen} &= \frac{\text{Bobot simplisia (akhir)}}{\text{Bobot simplisia (awal)}} \times 100\% \\ &= \frac{1069 \text{ gram}}{2000 \text{ gram}} \times 100\% \\ &= 53,45\%\end{aligned}$$



Lampiran 5. Perhitungan Rendemen Ekstrak

$$\begin{aligned}\text{Rendemen} &= \frac{\text{Bobot ekstrak(akhir)}}{\text{Bobot ekstrak (awal)}} \times 100\% \\ &= \frac{104,04 \text{ gram}}{500 \text{ gram}} \times 100\% \\ &= 20,80\%\end{aligned}$$



Lampiran 6. Ekstrak Kental Daun Jambu Biji

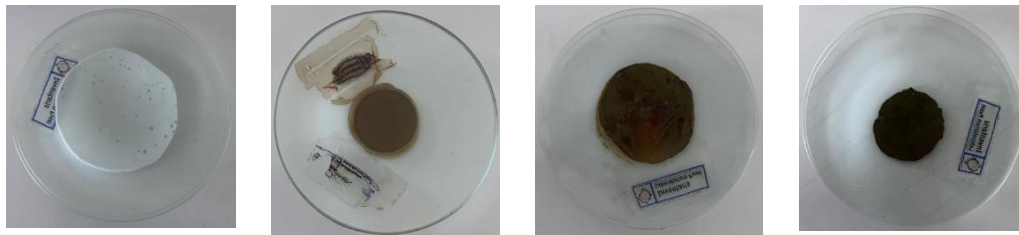


Lampiran 7. Uji Organoleptis



Formula	Organoleptis	Replikasi 1	Replikasi 2	Replikasi 3
F0 (Basis)	Bentuk	Semi padat	Semi padat	Semi padat
	Warna	Putih	Putih	Putih
	Bau	Tidak berbau	Tidak berbau	Tidak berbau
F1 (5%)	Bentuk	Semi padat	Semi padat	Semi padat
	Warna	Hijau kecoklatan	Hijau kecoklatan	Hijau kecoklatan
	Bau	Khas daun jambu biji	Khas daun jambu biji	Khas daun jambu biji
F2 (10%)	Bentuk	Semi padat	Semi padat	Semi padat
	Warna	Hijau kehitaman	Hijau kehitaman	Hijau kehitaman
	Bau	Khas daun jambu biji	Khas daun jambu biji	Khas daun jambu biji
F3 (15%)	Bentuk	Semi padat	Semi padat	Semi padat
	Warna	Hijau kehitaman	Hijau kehitaman	Hijau kehitaman
	Bau	Khas daun jambu biji	Khas daun jambu biji	Khas daun jambu biji

Lampiran 8. Uji Homogenitas



Formula 0

Replikasi	Homogenitas
1	Homogen
2	Homogen
3	Homogen

Formula 1

Replikasi	Homogenitas
1	Homogen
2	Homogen
3	Homogen

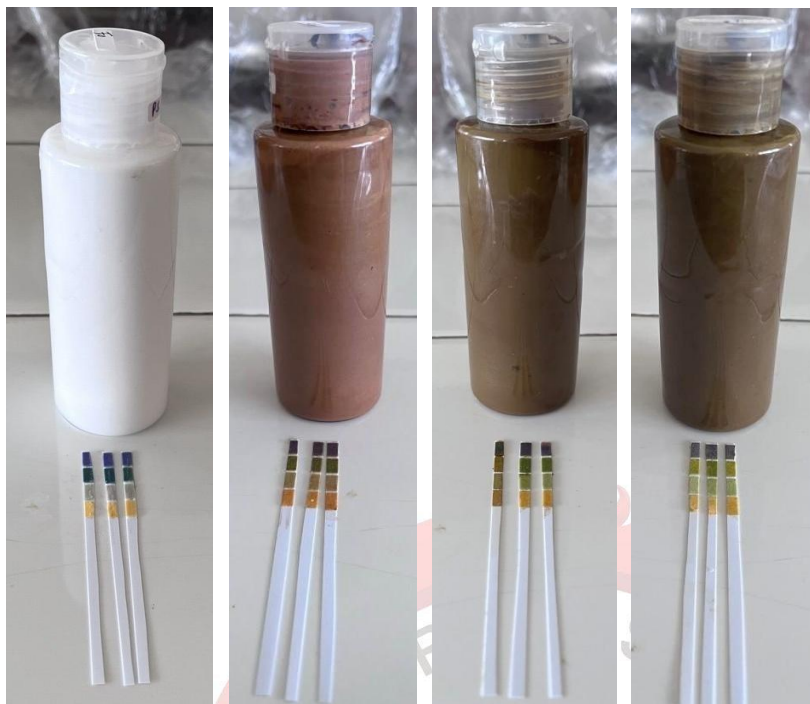
Formula 2

Replikasi	Homogenitas
1	Homogen
2	Homogen
3	Homogen

Formula 3

Replikasi	Homogenitas
1	Homogen
2	Homogen
3	Homogen

Lampiran 9. Uji pH



Formula 0

Replikasi	pH
1	9
2	9
3	9

Formula 1

Replikasi	pH
1	9
2	9
3	9

Formula 2

Replikasi	pH
1	9
2	9
3	9

Formula 3

Replikasi	pH
1	9
2	9
3	9

Lampiran 10. Uji Viskositas



Formula 0

Replikasi	Vsikositas
1	3583
2	3584
3	3582

Formula 1

Replikasi	Vsikositas
1	3653
2	3660
3	3657

Formula 2

Replikasi	Vsikositas
1	3783
2	3751
3	3765

Formula 3

Replikasi	Vsikositas
1	3862
2	3979
3	3899

Lampiran 11. Uji Antibakteri



Replikasi 1

Replikasi 2

Replikasi 3

Formula (+)

Replikasi	Dv (mm)	Dh (mm)	Zona Hambat (mm)
1	17,20	19,60	12,4
2	19,20	18,50	12,85
3	16,10	16,10	10,10

Formula 1

Replikasi	Dv (mm)	Dh (mm)	Zona Hambat (mm)
1	4,40	6,40	5,40
2	12,00	4,20	5,10
3	9,80	10,60	4,20

Formula 2

Replikasi	Dv (mm)	Dh (mm)	Zona Hambat (mm)
1	11,50	11,10	5,30
2	12,20	10,40	5,30
3	10,80	11,60	5,20

Formula 3

Replikasi	Dv (mm)	Dh (mm)	Zona Hambat (mm)
1	11,80	11,60	5,70
2	12,50	11,10	5,80
3	13,10	11,50	6,30

Lampiran 12. Perhitungan Zona Bening

$$\text{Zona Hambat (mm)} = \frac{(Dv-Dd)+(Dh-Dd)}{2}$$

Keterangan :

Dv = Diameter vertical zona hambat (mm)

Dh = Diameter horizontal zona hambat (mm)

Dd = diameter disk (mm)

F+

$$R1 = \frac{(17,2-6)+(19,6-6)}{2} = 12,4 \text{ mm}$$

$$R2 = \frac{(19,2-6)+(18,5-6)}{2} = 12,8 \text{ mm Rata-rata} = 11,78 \text{ mm (kuat)}$$

$$R3 = \frac{(16,1-6)+(16,1-6)}{2} = 10,1 \text{ mm}$$

F1

$$R1 = \frac{(9,8-6)+(11,2-6)}{2} = 4,5 \text{ mm}$$

$$R2 = \frac{(12-6)+(10,2-6)}{2} = 5,1 \text{ mm Rata-rata} = 4,60 \text{ mm (lemah)}$$

$$R3 = \frac{(9,8-6)+(10,6-6)}{2} = 4,2 \text{ mm}$$

F2

$$R1 = \frac{(11,5-6)+(11,1-6)}{2} = 5,3 \text{ mm}$$

$$R2 = \frac{(12,2-6)+(10,4-6)}{2} = 5,3 \text{ mm Rata-rata} = 5,27 \text{ mm (sedang)}$$

$$R3 = \frac{(10,8-6)+(11,6-6)}{2} = 5,2 \text{ mm}$$

F3

$$R1 = \frac{(11,8-6)+(11,6-6)}{2} = 12,4 \text{ mm}$$

$$R2 = \frac{(12,5-6)+(11,1-6)}{2} = 12,8 \text{ mm Rata-rata} = 5,93 \text{ mm (sedang)}$$

$$R3 = \frac{(13,1-6)+(11,5-6)}{2} = 10,1 \text{ mm}$$

Lampiran 13. Uji Normalitas

Tests of Normality

Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
.00	.284	3	.	.933	3	.501
Tinggi Busa F0	.301	3	.	.911	3	.422
F1	.385	3	.	.750	3	.000
F2	.314	3	.	.893	3	.363

Tests of Normality

Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
0	.175	3	.	1.000	3	1.000
Viskositas 1	.204	3	.	.993	3	.843
2	.200	3	.	.995	3	.862
3	.261	3	.	.957	3	.601

Tests of Normality^a

	Formula	Kolmogorov-Smirnov ^b			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Anti_Bakteri	1	.292	3	.	.923	3	.463
	2	.385	3	.	.750	3	.000
	3	.328	3	.	.871	3	.298

Lampiran 14. Uji Homogenitas

Test of Homogeneity of Variances

Tinggi Busa

Levene Statistic	df1	df2	Sig.
2.757	3	8	.112

Test of Homogeneity of Variances

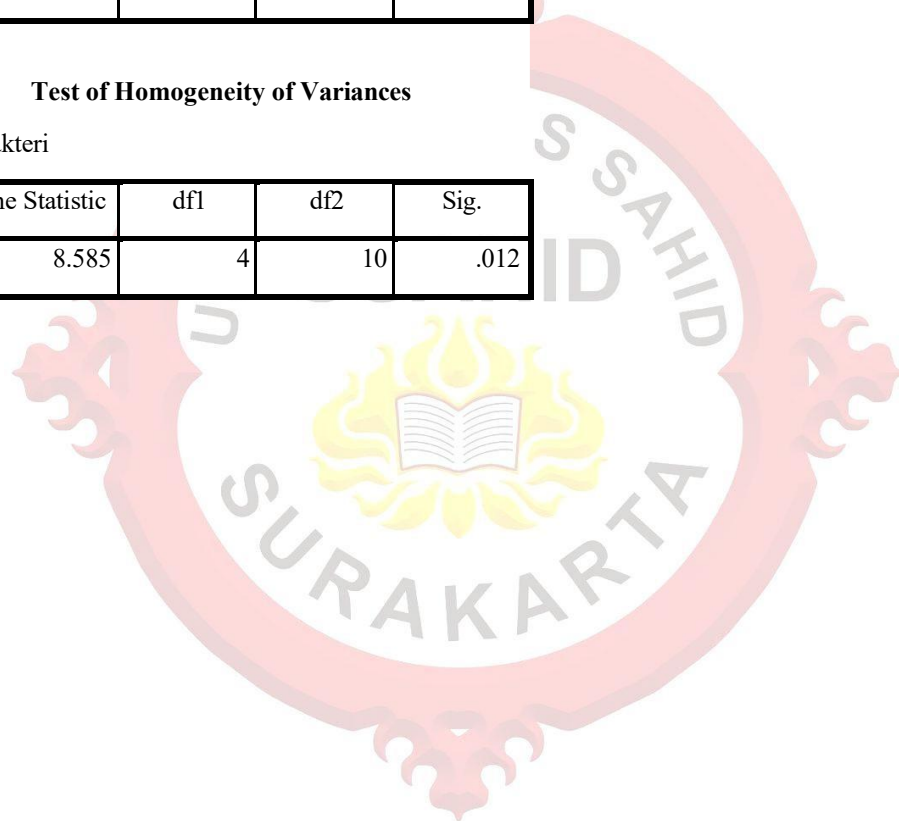
Viskositas

Levene Statistic	df1	df2	Sig.
6.202	3	8	.018

Test of Homogeneity of Variances

Anti_bakteri

Levene Statistic	df1	df2	Sig.
8.585	4	10	.012



Lampiran 15. Uji *Kruskal-Wallis*

Tinggi Busa

Ranks

Formula		N	Mean Rank
Stabilitas_Busa	Formula 0	3	2.00
	Formula 1	3	8.67
	Formula 2	3	9.33
	Formula 3	3	6.00
	Total	12	

Test Statistics^{a,b}

	Stabilitas_Busa
Chi-Square	7.694
df	3
Asymp. Sig.	.053

a. Kruskal Wallis Test

b. Grouping Variable: Formula

viskositas

Ranks

	Formula	N	Mean Rank
Viskositas	Formula 0	3	2.00
	Formula 1	3	5.00
	Formula 2	3	8.00
	Formula 3	3	11.00
	Total	12	

Test Statistics^{a,b}

	Viskositas
Chi-Square	10.385
df	3
Asymp. Sig.	.016

a. Kruskal Wallis Test

b. Grouping Variable:

Formula

Anti_bakteri

Ranks

	Formula	N	Mean Rank
Diameter_Zona_Hambat	Formula 0	3	2.00
	Formula 1	3	6.00
	Formula 2	3	7.00
	Formula 3	3	11.00
	Total	12	

Test Statistics^{a,b}

	Diameter_Zona_Hambat
Chi-Square	9.630
df	3
Asymp. Sig.	.022

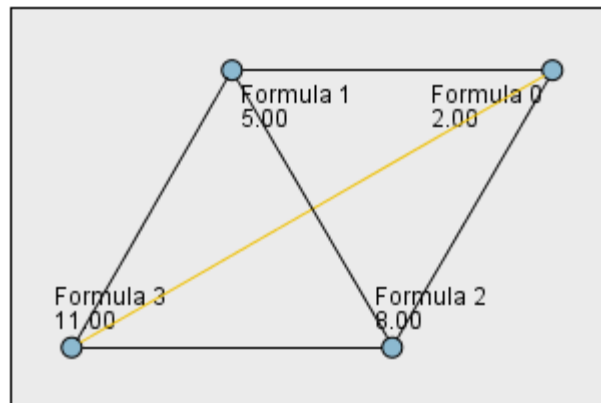
a. Kruskal Wallis Test

b. Grouping Variable: Formula

Lampiran 16. Uji *Post Hoc*

Hasil Uji Post Hoc Viskositas dengan SPSS

Pairwise Comparisons of Formula



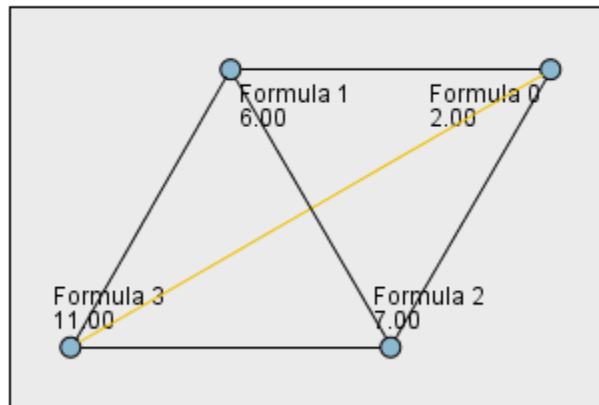
Each node shows the sample average rank of Formula.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Formula 0-Formula 1	-3.000	2.944	-1.019	.308	1.000
Formula 0-Formula 2	-6.000	2.944	-2.038	.042	.249
Formula 0-Formula 3	-9.000	2.944	-3.057	.002	.013
Formula 1-Formula 2	-3.000	2.944	-1.019	.308	1.000
Formula 1-Formula 3	-6.000	2.944	-2.038	.042	.249
Formula 2-Formula 3	-3.000	2.944	-1.019	.308	1.000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same. Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

Hasil Uji Post Hoc Diameter Zona Hambat dengan SPSS

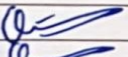
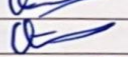
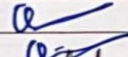
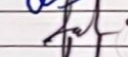
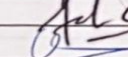
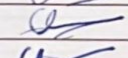
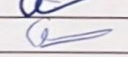
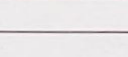
Pairwise Comparisons of Formula



Each node shows the sample average rank of Formula.

Sample1-Sample2	Test Statistic	Std. Error	Std. Test Statistic	Sig.	Adj.Sig.
Formula 0-Formula 1	-4.000	2.918	-1.371	.170	1.000
Formula 0-Formula 2	-5.000	2.918	-1.713	.087	.520
Formula 0-Formula 3	-9.000	2.918	-3.084	.002	.012
Formula 1-Formula 2	-1.000	2.918	-.343	.732	1.000
Formula 1-Formula 3	-5.000	2.918	-1.713	.087	.520
Formula 2-Formula 3	-4.000	2.918	-1.371	.170	1.000

Each row tests the null hypothesis that the Sample 1 and Sample 2 distributions are the same.
Asymptotic significances (2-sided tests) are displayed. The significance level is .05.

N O	HARI/ TANGGAL	DOSEN PEMBIMBING	BAB / HAL	URAIAN	TANDA TANGAN DOSEN PEMBIMBING
1.	06/03/24	Apt. Ahwan S.Farm., M.Sc		Pengajuan judul skripsi	
2.	13/05/24	Apt. Ahwan S.Farm., M.Sc	Proposal bab 1, 2, 3	Penambahan uji Antibakteri dan Bakteri <i>Staphylococcus aureus</i>	
3.	11/06/24	Apt. Ahwan S.Farm., M.Sc		Pengajuan pergantian judul	
4.	03/07/24	Apt. Ahwan S.Farm., M.Sc	Proposal bab 1, 2, 3	Penulisan huruf latin, keterangan pada gambarnya, landasan teori	
5.	12/07/24	Apt. Ahwan S.Farm., M.Sc	Proposal bab 1, 2, 3	Rumusan masalah, tujuan penelitian	
6.	30/07/24	Fadilah Genitah S.Farm., M.Sc	Proposal bab 1, 2, 3	Penulisan daftar isi, Penulisan bahasa asing, hipotesis	
7.	12/08/24	Fadilah Genitah S.Farm., M.Sc	Proposal bab 1, 2, 3	Perbaiki tabel pada Formula sabun cair dan tabel pada jadwal penelitian	
8.	21/08/24	Apt. Ahwan S.Farm., M.Sc	Konsultasi formula	Perbaiki formula	
9.	17/09/24	Apt. Ahwan S.Farm., M.Sc	Konsultasi hasil	hasil antibakteri	
10.	08/08/24	Apt. Ahwan S.Farm., M.Sc	Konsultasi	Revisi bab 1 - 5	
11.	11/08/24	Apt. Ahwan S.Farm., M.Sc	Konsultasi	Revisi bab 1 - 5	