



LAMPIRAN

Lampiran 1. Determinasi Tumbuhan



LABORATORIUM PEMBELAJARAN BIOLOGI

FAKULTAS SAINS DAN TEKNOLOGI TERAPAN
UNIVERSITAS AHMAD DAHLAN

Jl. Ringroad Selatan, Tamanan, Banguntapan, Bantul

SURAT KETERANGAN

Nomor : 390/Lab.Bio/B/VIII/2023

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

Nama : Maria Santika
NIM : 2021142021
Prodi, PT : Farmasi, Universitas Sahid Surakarta

Telah melakukan determinasi daun tanaman dengan bimbingan Hery Setiyawan, M.Si di Laboratorium Biologi Universitas Ahmad Dahlan, pada tanggal 11 Agustus 2023

Tanaman tersebut adalah :
Peperomia pellucida (L.) Kunth.

Demikian Surat Keterangan ini untuk dapat dipergunakan seperlunya.

Yogyakarta, 14 Agustus 2023

Kepala Lab. Pembelajaran Biologi



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

Lampiran 2. Sertifikat Bakteri *P.acne*

PRO – Technology

Laboratorium Uji Mikrobiologi
Jalan Cempaka Putih No.69 - Jakarta Pusat
Indonesia

SERTIFIKAT HASIL UJI

1. Bakteri : Stock Strain *Propionibacterium acne* ATCC 11827
2. Nomor Uji Bakteri : V. 1. 7
3. Tanggal Uji bakteri : 9 – 14 November 2020

Uraian Hasil Uji

Strain V. 1. 7. Biakan Murni dari *Propionibacterium acne* ATCC 11827

I. Ciri-ciri koloni :

1. Pewarnaan Gram : Bentuk sel batang anaerobik, kecil-kecil, menyebar, berwarna merah violet, Gram positif.
2. Di tanam pada media Blood Agar Plate (BAP) : koloni berwarna putih, permukaan koloni cembung

II. Uji Fermentasi Karbohidrat dan Biokimia Penegasan

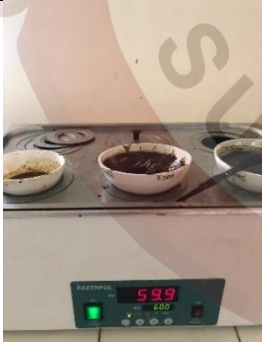
Uji Fisiologi bakteri	Hasil Uji
1. MOTILITAS	+
2. KATALASE	+
3. KOAGULASE	+
4. GLUKOSA	ASAM : + GAS : 0
5. LAKTOSA	ASAM : + GAS : 0
6. MALTOSA	ASAM : + GAS : 0
7. SUKROSA	ASAM : + GAS : 0
8. DEKTROSA	ASAM : + GAS : +

Catatan:

1. Hasil Uji ini hanya berlaku untuk contoh yang diuji.

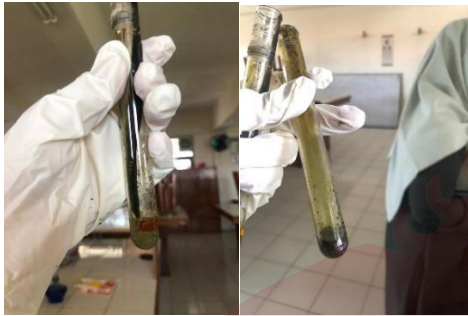
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Laboratorium Uji Mikrobiologi
Jakarta - Indonesia

Lampiran 3. Dokumentasi

		
Penyiapan Sampel	sortasi basah	pengeringan
		
sortasi kering	maserasi	rotary evaporator
		
waterbath		

Lampiran 4. Uji Skrining

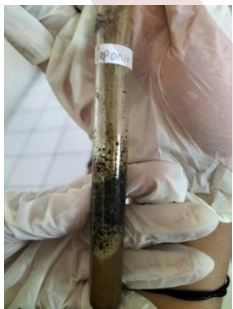
a. alkaloid



b. flavonoid



c. saponin



d. tanin



Lampiran 5. Pembuatan *facial wash* ekstrak daun sirih cina (*Paperomia Pellucida* (L). KunthKunth)



Lampiran 6. Uji Organoleptis



Lampiran 7. Uji viskositas



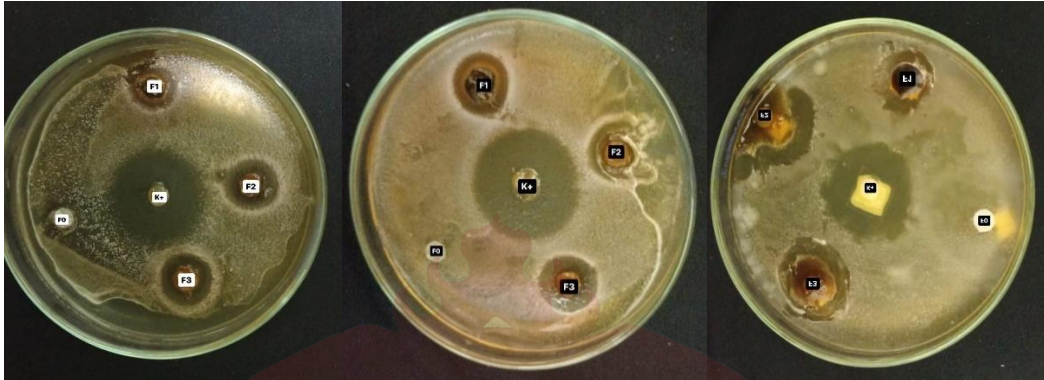
Lampiran 8. Uji pH



Lampiran 9. Uji Daya Busa



Lampiran 10. Uji Antibakteri



Lampiran 11. Perhitungan Rendemen Ekstrak

$$\text{Rendemen} = \frac{\text{ekstrak kental (g)}}{\text{sebuk sampel (g)}} \times 100\%$$

$$\text{Rendeme ekstrak} = \frac{123,5g}{987g} \times 100\% = 12,5\%$$

Lampiran 12. Perhitungan Daya Hambat

$$\text{Rumus : } \frac{(Dv - Dc) + (Dh - Dc)}{2}$$

Keterangan : Dv : Diameter Vertikal

Dh : Diameter Horizontal

Dc : Diameter Cakram

Replikasi 1

$$K+ : (25,5 - 6) + (26,3 - 6) / 2 = 19,9 \text{ mm}$$

$$F1 : (12 - 6) + (18 - 6) / 2 = 9 \text{ mm}$$

$$F2 : (19 - 6) + (17,6 - 6) / 2 = 12,3 \text{ mm}$$

$$F3 : (21,2 - 6) + (18,2 - 6) / 2 = 13,7 \text{ mm}$$

Replikasi 2

$$K+ : (26,4 - 6) + (25,2 - 6) / 2 = 19,8 \text{ mm}$$

$$F1 : (15,7 - 6) + (15,7 - 6) / 2 = 9,7 \text{ mm}$$

$$F2 : (17,1 - 6) + (15,3 - 6) / 2 = 10,5 \text{ mm}$$

$$F3 : (18,5 - 6) + (19,5 - 6) / 2 = 13 \text{ mm}$$

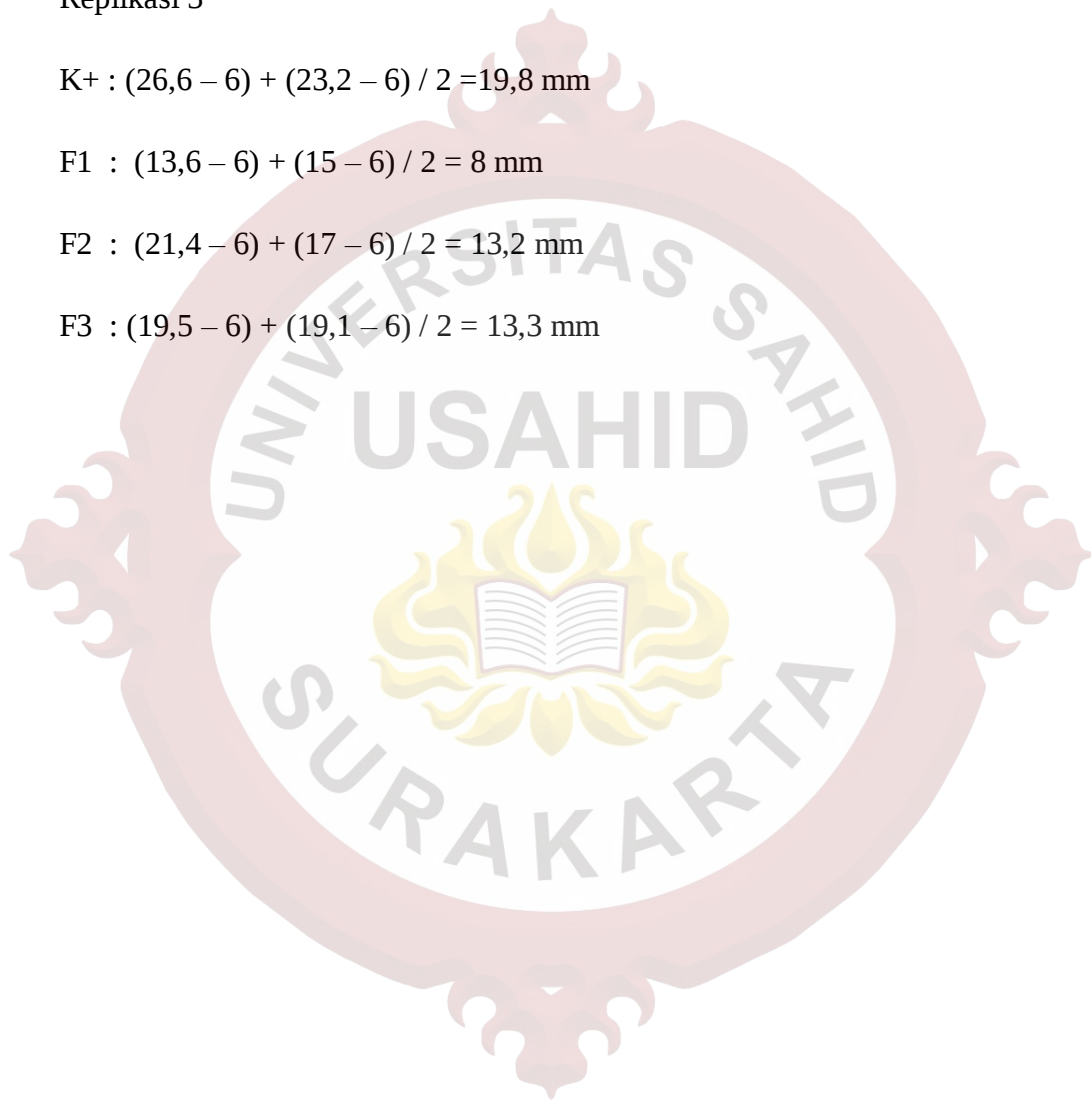
Replikasi 3

$$K+ : (26,6 - 6) + (23,2 - 6) / 2 = 19,8 \text{ mm}$$

$$F1 : (13,6 - 6) + (15 - 6) / 2 = 8 \text{ mm}$$

$$F2 : (21,4 - 6) + (17 - 6) / 2 = 13,2 \text{ mm}$$

$$F3 : (19,5 - 6) + (19,1 - 6) / 2 = 13,3 \text{ mm}$$



Lampiran 13. Hasil Uji Statistik viskositas

Test of Homogeneity of Variances

Uji Viskositas

Levene Statistic	df1	df2	Sig.
.082	3	8	.968

ANOVA

Uji Viskositas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	158061.667	3	52687.222	3.713	.061
Within Groups	113532.000	8	14191.500		
Total	271593.667	11			

Tests of Normality

Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Uji Viskositas F0	.281	3	.	.937	3	.514
F1	.318	3	.	.887	3	.345
F2	.177	3	.	1.000	3	.969
F3	.189	3	.	.998	3	.905

a. Lilliefors Significance Correction

Lampiran 14. Uji Statistik Daya Busa

Tests of Normality

Formula	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Uji busa F0	.211	3	.	.991	3	.817
F1	.236	3	.	.977	3	.712
F2	.253	3	.	.964	3	.637
F3	.321	3	.	.881	3	.328

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

Uji busa

Levene Statistic	df1	df2	Sig.
2.980	3	8	.096

ANOVA

Uji busa

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	183.336	3	61.112	20.281	.000
Within Groups	24.107	8	3.013		
Total	207.442	11			

Lampiran 15. Uji Statistik Antibakteri

Tests of Normality^a

Formula	Kolmogorov-Smirnov ^b			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Uji Antibakteri F1	.213	3	.	.990	3	.806
F2	.253	3	.	.964	3	.637
F3	.204	3	.	.993	3	.843
Kontrol positif	.353	3	.	.824	3	.174

a. Uji Antibakteri is constant when Formula = F0. It has been omitted.

b. Lilliefors Significance Correction

Test of Homogeneity of Variances

Uji Antibakteri

Levene Statistic	df1	df2	Sig.
3.293	4	10	.058

ANOVA

Uji Antibakteri

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	613.104	4	153.276	251.547	.000
Within Groups	6.093	10	.609		
Total	619.197	14			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Uji Antibakteri
Tukey HSD

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
F0	F1	-8.9000*	.6374	.000	-10.998	-6.802
	F2	-12.0000*	.6374	.000	-14.098	-9.902
	F3	-13.3333*	.6374	.000	-15.431	-11.236
	Kontrol positif	-19.5333*	.6374	.000	-21.631	-17.436
F1	F0	8.9000*	.6374	.000	6.802	10.998
	F2	-3.1000*	.6374	.005	-5.198	-1.002
	F3	-4.4333*	.6374	.000	-6.531	-2.336
	Kontrol positif	-10.6333*	.6374	.000	-12.731	-8.536
F2	F0	12.0000*	.6374	.000	9.902	14.098
	F1	3.1000*	.6374	.005	1.002	5.198
	F3	-1.3333	.6374	.294	-3.431	.764
	Kontrol positif	-7.5333*	.6374	.000	-9.631	-5.436
F3	F0	13.3333*	.6374	.000	11.236	15.431
	F1	4.4333*	.6374	.000	2.336	6.531
	F2	1.3333	.6374	.294	-.764	3.431
	Kontrol positif	-6.2000*	.6374	.000	-8.298	-4.102
Kontrol positif	F0	19.5333*	.6374	.000	17.436	21.631
	F1	10.6333*	.6374	.000	8.536	12.731
	F2	7.5333*	.6374	.000	5.436	9.631
	F3	6.2000*	.6374	.000	4.102	8.298

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