LAMPIRAN

Lampiran 1. Hasil Determinasi Tumbuhan

KEMENTERIAN PENDIDIKAN TINGGI, SAINS,
DAN TEKNOLOGI
UNIVERSITAS TANJUNGPURA
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
LABORATORIUM BIOLOGI
Jalan Prof. Dr. H. Hadari Nawawi, Pontianak 78124
Telp./Fax.: (0561) 577963 e-mail : info@fmipa.untan.ac.id

Lampiran 1

Hasil Determinasi Tumbuhan

Nama Pengirim : Muhammad Fikri Amulah
Jenis Sampel : Tumbuhan
Tanggal Terima : 8 Juli 2025

Klasifikasi:

Kingdom : *Plantae*
Divisi : *Tracheophyta*
Kelas : *Magnoliopsida* (dicots)
Ordo : *Gentianales*
Famili : *Rubiaceae*
Genus : *Mitragyna*
Spesies : *Mitragyna speciosa* Korth.

Nama Daerah : Kratom

Deskripsi :

Habitus tanaman kratom berupa pohon berkayu setinggi 10-30 meter, umumnya tumbuh secara soliter atau berdekatan dengan jenis yang serupa. Batang lurus dengan kulit batang berwarna abu-abu kehijauan saat masih muda dan cenderung menjadi abu-abu kecoklatan ketika tua. Tekstur permukaan batang (epidermis) saat muda lebih mulus dibanding saat tua yang cenderung lebih kasar dan memiliki banyak pustular lentisel (pustular lenticels). Pada satu batang muda terdapat 10-12 daun yang berpasangan, tumbuh berhadapan dan bersilangan. Ujung batang pohon diakhiri dengan bunga dan buah yang tumbuh di bagian ketiak daun (axil) di antara beberapa daun. Daun kratom berbentuk elips hingga bulat telur (ovate), memiliki tulang daun sekunder yang tampak jelas berjumlah 12-17 pasang. Warna daun hijau dan cenderung lebih muda dan kontras dibanding warna hijau tanaman di sekitarnya. Tekstur daun seperti kertas dengan ujung daun berbentuk lancip dan pangkal daun bulat atau berbentuk seperti hati (sub cordate).

Daftar Pustaka:

Backer, A and Van Den Brink, B., 1965, *Flora of Java (Spermatophytes Only)*, Volume I, N.V.P. The Nederlands, Noordhoff-Groningen.

Catalogue of life. dalam *https://www.catalogueoflife.org/*, diakses pada 25 Juni 2025.

Cronquist, A., 1981, An Integrated System of Classification of Flowering Plants, New York, Columbia University Press, 477.

Tjitrosoepoemo, G., 2012, *Taksonomi Tumbuhan Spermatophyta*, Gadjah Mada University Press, Yogyakarta.

Catatan : Pengambilan sampel di luar tanggung jawab Laboratorium

Dipindai dengan CamScanner

Lampiran 2. Sertifikat Bakteri Propionibacterium Acnes

thermoscientific

Thermo Fisher Scientific
Microbiology
12076 Santa Fe Trail Drive
12230 Santa Fe Trail Drive
Lenexa, KS 66215
800.255.6730
800.447.5761 fax
www.thermofisher.com

Certificate of Analysis

Product Name: C. acnes ATCC 6919 PK/5
Lot Number: 237044

Product Number: R4607101
Expiration Date: 2026-08-25
(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 Thermo Fisher 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.



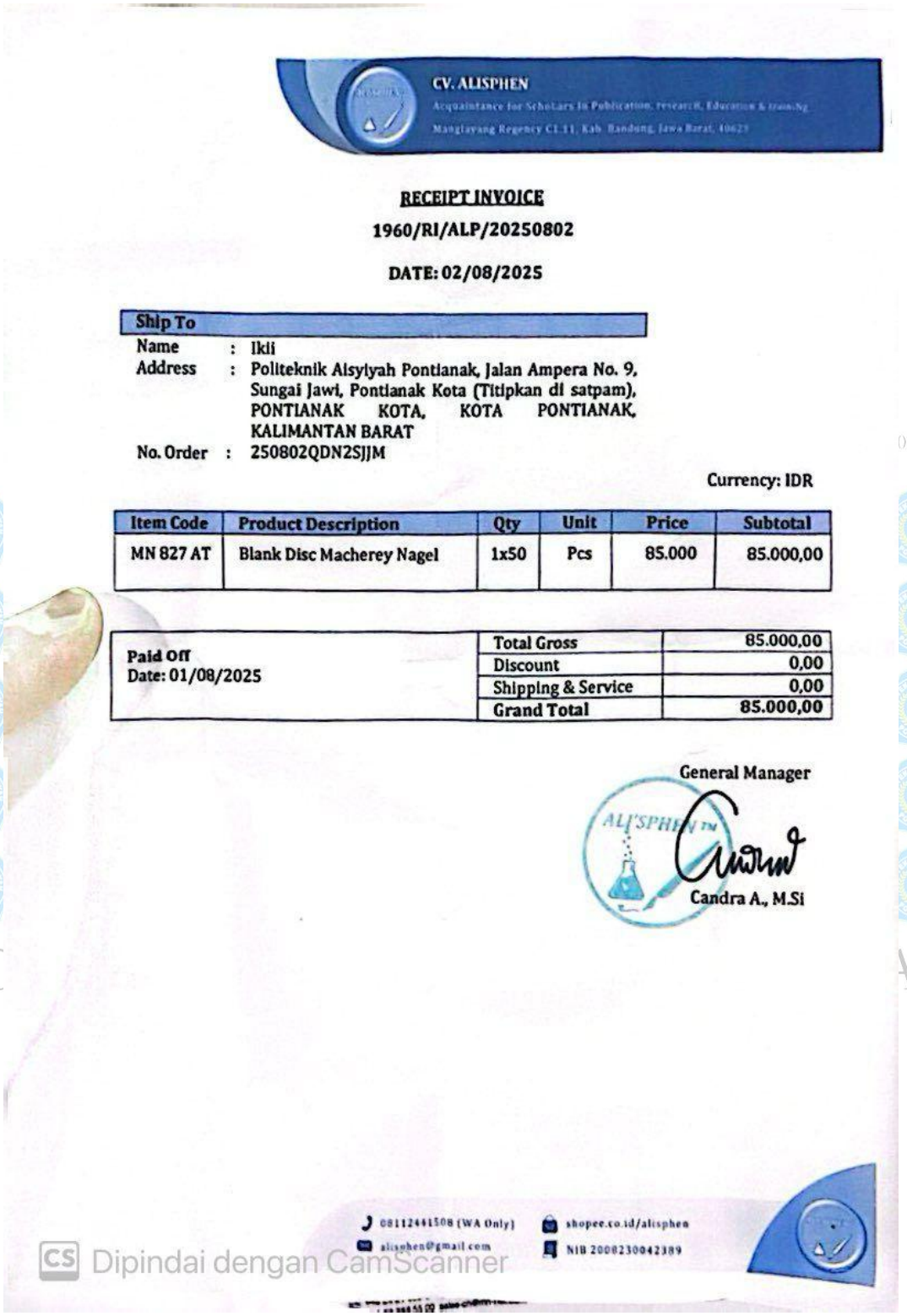
Characterization:
Organism exhibits characteristic biochemical, enzymatic, genotypical and/or biochemical reactions. Automated and/or conventional testing was performed and results were within established limits. Antimicrobial testing performed where applicable. Results within expected ranges.

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

Passage: 3
Identification Profile: MicroSEQ® or Vitek® 2

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

Lampiran 3. Sertifikat Dish Cakram



CV. ALISPHEN

Acquaintance for ScholArs in Publication, research, Education & training

Manglayang Regency C1.11, Kab. Bandung, Jawa Barat, 40623

RECEIPT INVOICE

1960/RI/ALP/20250802

DATE: 02/08/2025

Ship To

Name : Ikli

Address : Politeknik Aisyiyah Pontianak, Jalan Ampera No. 9, Sungai Jawi, Pontianak Kota (Titipkan di satpam), PONTIANAK KOTA, KOTA PONTIANAK, KALIMANTAN BARAT

No. Order : 250802QDN2SJJM

Currency: IDR

Item Code	Product Description	Qty	Unit	Price	Subtotal
MN 827 AT	Blank Disc Macherey Nagel	1x50	Pcs	85.000	85.000,00

Paid Off
Date: 01/08/2025

Total Gross	85.000,00
Discount	0,00
Shipping & Service	0,00
Grand Total	85.000,00

General Manager

Candra A., M.Si

08112441508 (WA Only) shopee.co.id/alisphen

alisphen@gmail.com NIB 2008230042389

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Lampiran 4. Rumus Perhitungan

Perhitungan kosentrasi menggunakan rumus %b/b

$$\%b/b = \frac{Berat\ Zat\ Terlarut}{Berat\ Total\ Sediaan} \times 100\%$$

5%. $\frac{5}{95} \times 100\%$

= 0,05 gr

10%. $\frac{10}{90} \times 100\%$

= 0,11 gr

15%. $\frac{15}{85} \times 100\%$

= 0,17 gr

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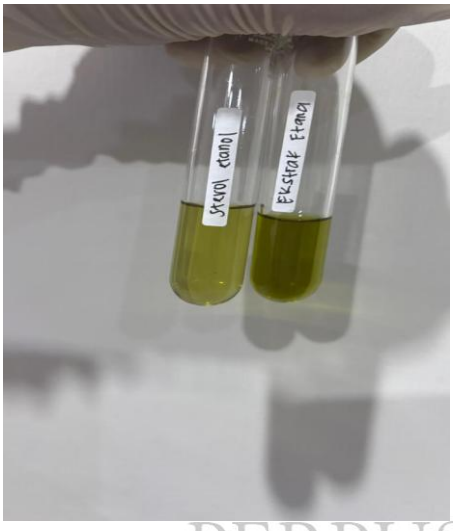
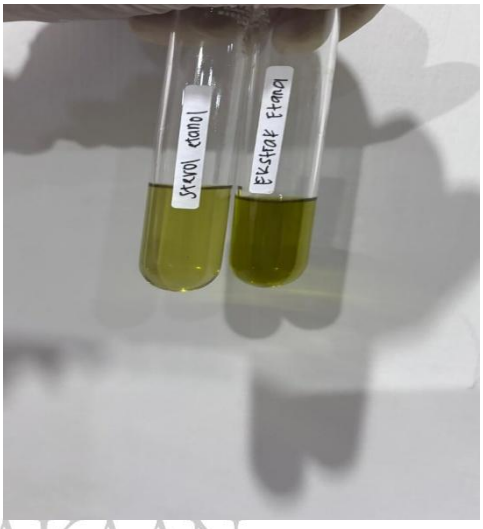
Lampiran 5. Skrining Fitokimia



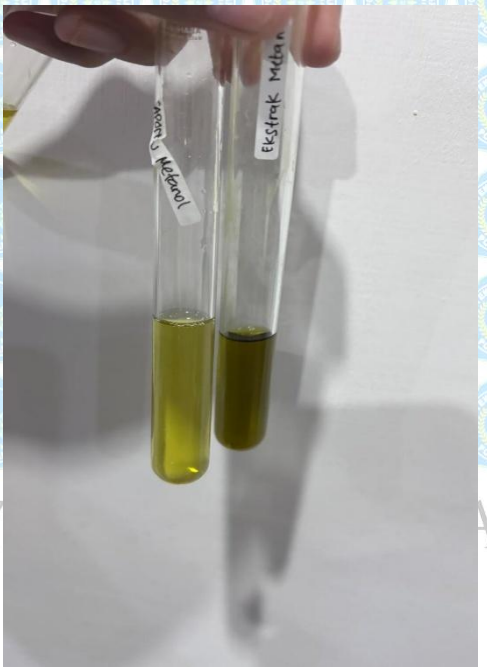
Uji Alkaloid



Uji Fenol



Uji flavonoid



Uji Tanin

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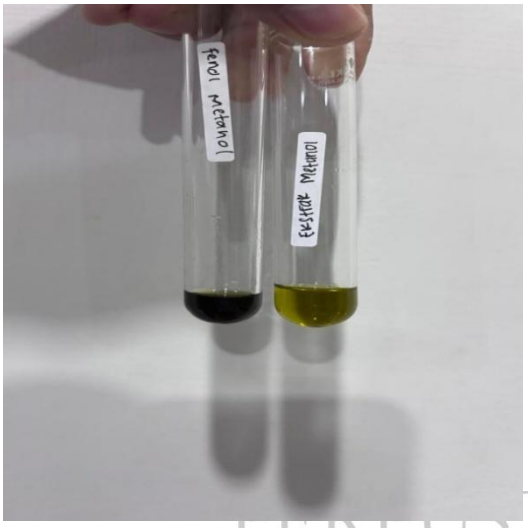
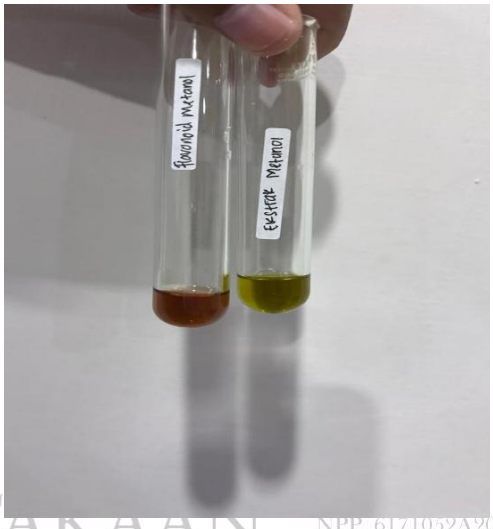


Uji fenol metanol



Uji flavonoid metanol

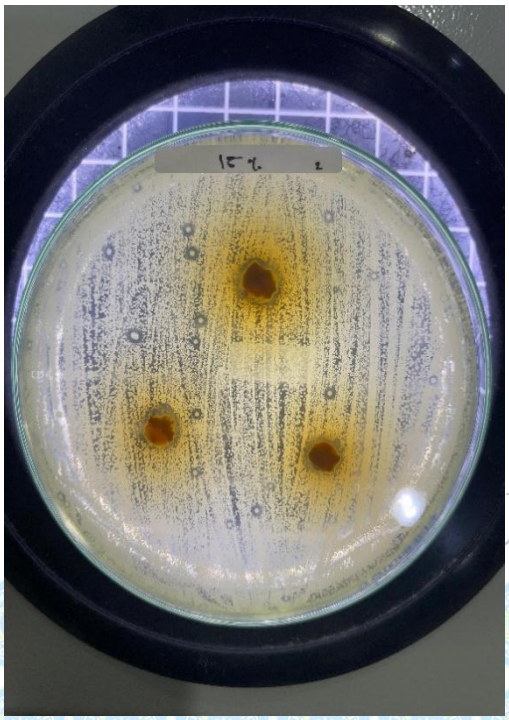


Uji flavonoid

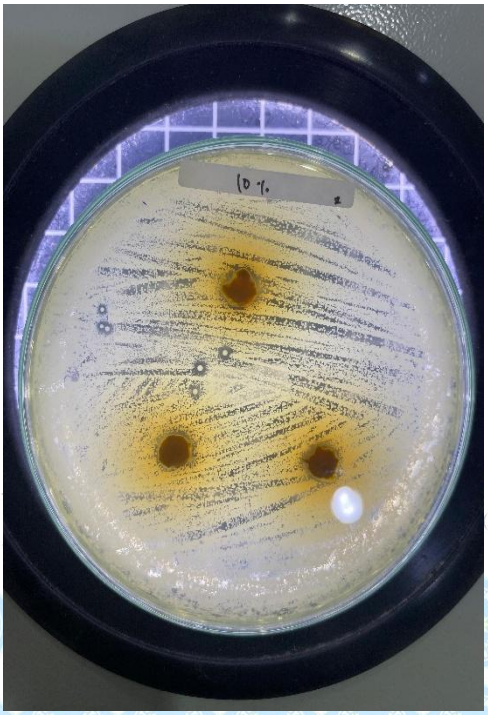


Uji Flavonoid

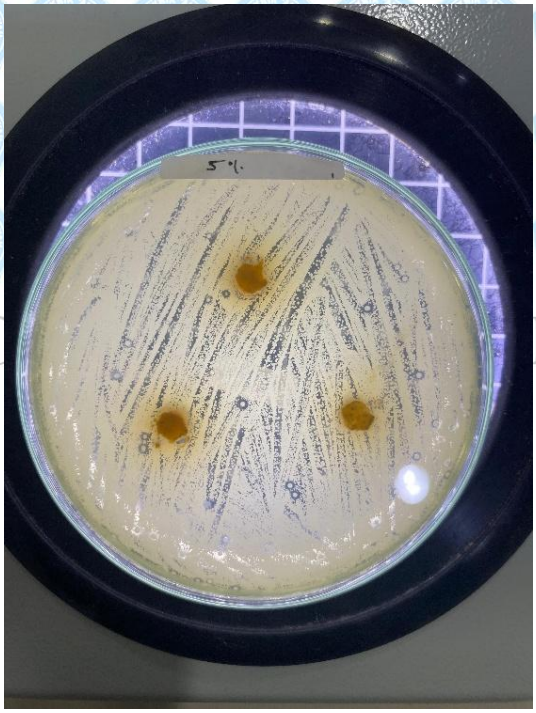
Lampiran 6. Uji Aktivitas Antibakteri



Zona Hambat 15%



Zona Hambat 10%



Zona Hambat 5%

Lampiran 7. Uji SPSS

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	kelompok	Statistic	df	Sig.	Statistic	df	Sig.
Nilai_daya_hambat	kontrol positif	.166	9	.200*	.947	9	.658
	konsentrasi 5%	.260	9	.081	.867	9	.113
	konsentrasi 10%	.210	9	.200*	.941	9	.588
	konsentrasi 15%	.220	9	.200*	.948	9	.672

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Nilai_daya_hambat	Based on Mean	5.926	3	32	.002
	Based on Median	4.694	3	32	.008
	Based on Median and with adjusted df	4.694	3	21.805	.011
	Based on trimmed mean	5.957	3	32	.002

ANOVA

Nilai_daya_hambat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	899.395	3	299.798	353.737	.000
Within Groups	27.121	32	.848		
Total	926.516	35			

Lampiran 8. Uji SPSS

Descriptives

	kelompok			Statistic	Std. Error
Nilai_daya_hambat	kontrol positif	Mean		19.2000	.45461
		95% Confidence Interval for Mean	Lower Bound	18.1517	
			Upper Bound	20.2483	
		5% Trimmed Mean		19.2222	
		Median		19.0000	
		Variance		1.860	
		Std. Deviation		1.36382	
		Minimum		17.00	
		Maximum		21.00	
		Range		4.00	
		Interquartile Range		2.40	
		Skewness		-.201	.717
		Kurtosis		-1.053	1.400
	konsentrasi 5%	Mean		6.2333	.04714
		95% Confidence Interval for Mean	Lower Bound	6.1246	
			Upper Bound	6.3420	
		5% Trimmed Mean		6.2259	
		Median		6.2000	
		Variance		.020	
		Std. Deviation		.14142	
		Minimum		6.10	
		Maximum		6.50	
		Range		.40	
		Interquartile Range		.25	
		Skewness		.947	.717
		Kurtosis		-.018	1.400
	konsentrasi 10%	Mean		16.3222	.24024
		95% Confidence Interval for Mean	Lower Bound	15.7682	
			Upper Bound	16.8762	
		5% Trimmed Mean		16.3247	
		Median		16.3000	
		Variance		.519	
		Std. Deviation		.72072	
		Minimum		15.20	
		Maximum		17.40	
		Range		2.20	
		Interquartile Range		1.10	
		Skewness		-.108	.717
		Kurtosis		-.344	1.400
	konsentrasi 15%	Mean		17.0167	.33177
		95% Confidence Interval for Mean	Lower Bound	16.2516	
			Upper Bound	17.7817	
		5% Trimmed Mean		17.0296	
		Median		17.2000	
		Variance		.991	
		Std. Deviation		.99530	
		Minimum		15.30	
		Maximum		18.50	
		Range		3.20	
		Interquartile Range		1.50	
		Skewness		-.236	.717
		Kurtosis		-.163	1.400

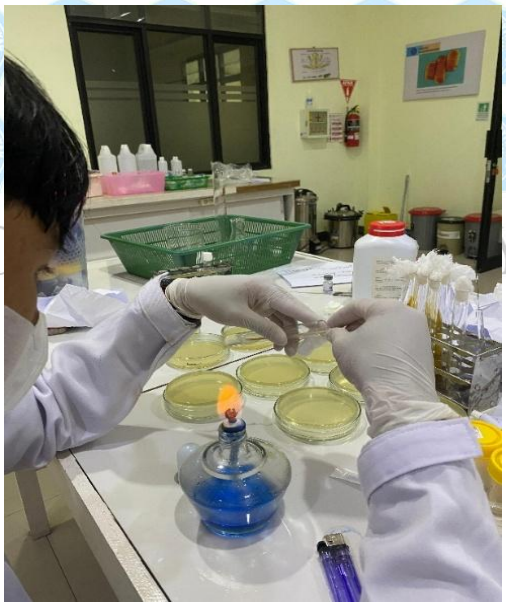
Lampiran 9. Dokumentasi Penelitian



Hasil rendeman ekstrak metanol 96%



Hasil Ekstrak sudah jadi



Pengoresan bakteri pada media MHA



Pengoresan



Pengoresan



Media MHA dilarutkan



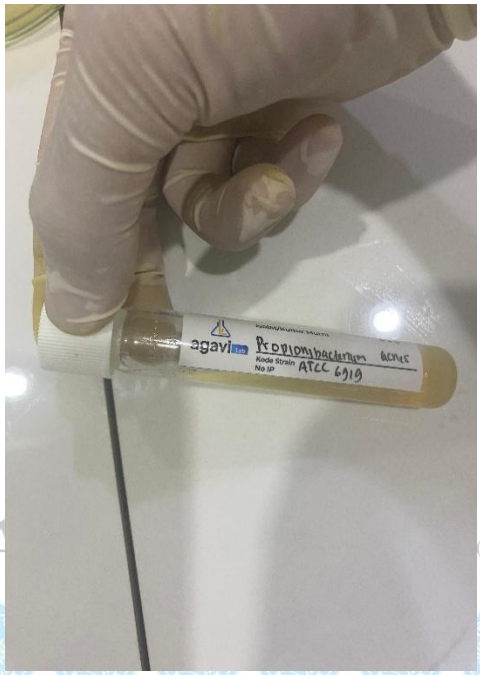
Bahan Ekstrak



Asam *azelaic acid*



Dish cakram



Bakteri *Propionicbacterium acne*



Standar kekeruhan bakteri



Standar kekeruhan bakteri



Autoklaf



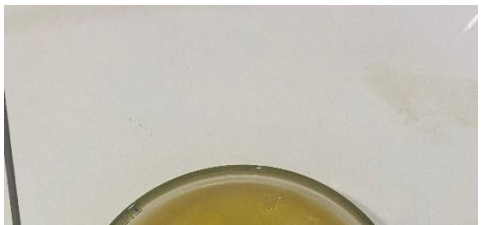
Jangka sorong



Alat-alat yang digunakan



Alat yang digunakan





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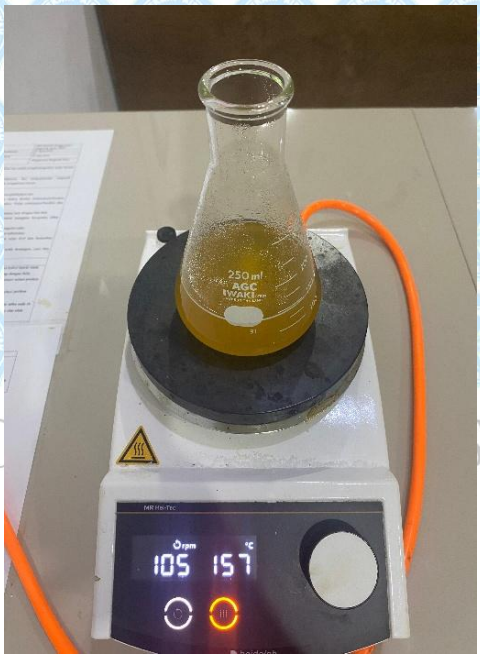
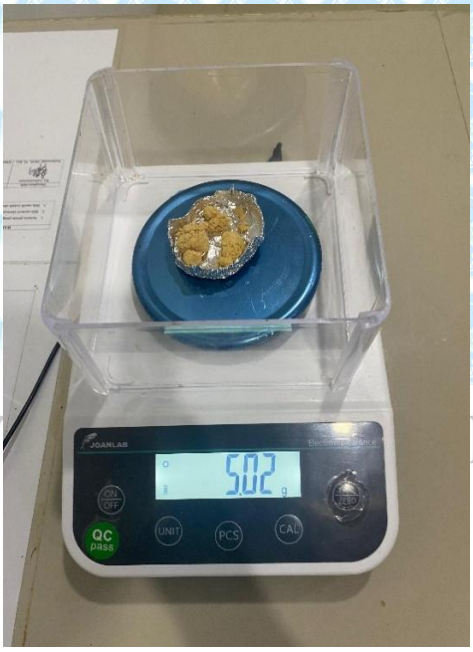
Bakteri pada *Nutrient Agar*



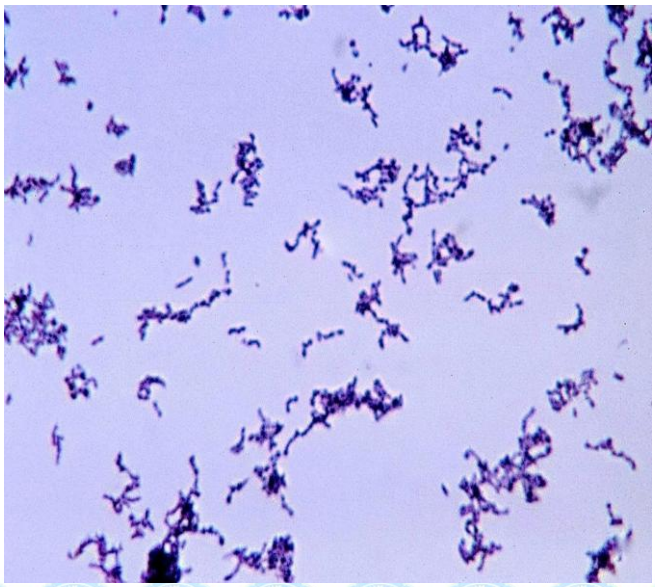
Pengenceran *Nutrient agar*

Bakteri pada *Nutrient agar*



Penimbangan media *Nutrient agar*

Lampiran 10. Bakteri *Propionibacterium Acnes* Pada Mikroskop



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Gambar Bakteri *Propionicbacterium Acnes* Perbesaran 100x

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