

LAMPIRAN

Lampiran 1. Hasil Turnitin

Rian Fauzian Nugraha_201FF03021_Skripsi.pdf

ORIGINALITY REPORT

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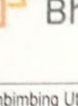
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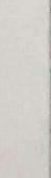
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Lampiran 2. Lembar Bimbingan

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



Fakultas Farmasi
Universitas
Bhakti Kencana



KARTU BIMBINGAN TUGAS AKHIR-I/TUGAS AKHIR II

Pembimbing Utama	: Ira Adiyati Rum, M.Si.
Nama Mahasiswa	: Rian Fauzian Nugraha
NPM	: 201FF03021
Bidang Ilmu	: Farmasetika dan Teknologi Farmasi (FTF)

No	Hari/Tanggal	Waktu	Tempat	Materi	Paraf Dosen
1	Jum'at, 16 Februari 2024	13.00 WIB	Google Meet	Diskusi TA2	<i>[Signature]</i>
2	Selasa, 27 Februari 2024	10.00 WIB	Lab. Mikrobiologi	Latihan TA2	<i>[Signature]</i>
3	Selasa, 19 Maret 2024	14.00 WIB	WhatsApp	Konsultasi Bahan Penelitian	<i>[Signature]</i>
4	Sabtu, 23 Maret 2024	09.00 WIB	Google Meet	Persiapan Penelitian	<i>[Signature]</i>
5	Sabtu, 20 April 2024	08.30 WIB	Google Meet	Total Plate Count	<i>[Signature]</i>
6	Jum'at, 26 April 2024	20.00 WIB	Google Meet	Total Plate Count + Mikroskopik	<i>[Signature]</i>
7	Senin, 29 April 2024	21.00 WIB	Google Meet	Laporan Kemajuan 1	<i>[Signature]</i>
8	Minggu, 19 Mei 2024	19.00 WIB	Google Meet	Total Plate Count + Makroskopik	<i>[Signature]</i>
9	Sabtu, 25 Mei 2024	08.30 WIB	Zoom Meeting	Laporan Kemajuan 2	<i>[Signature]</i>
10	Minggu, 2 Juni 2024	16.00 WIB	Google Meet	Total Plate Count	<i>[Signature]</i>
11	Selasa, 18 Juni 2024	08.00 WIB	Google Meet	Total Plate Count	<i>[Signature]</i>
12	Jum'at, 4 Juli 2024	09.00 WIB	Kampus UM Bandung	BAB 4	<i>[Signature]</i>
13	Senin, 8 Juli 2024	21.00 WIB	Google Meet	BAB 4	<i>[Signature]</i>
14	Rabu, 10 Juli 2024	19.00 WIB	Google Meet	BAB 4	<i>[Signature]</i>

[Signature] Ir. Saekwan Hatta Nn 754/Bandung

☎ 022 7830160 022 7830166

✉ pku.ac.id contact@pku.ac.id

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

KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

Pembimbing Serta	: Dr. apt. Dadih Supriadi, M.Si.
Nama Mahasiswa	: Rian Fauzian Nugraha
NPM	: 201FF03021
Bidang Ilmu	: Farmasetika dan Teknologi Farmasi (FTF)

[illegible]

Catatan : Kartu ini harus dibawa setiap kali melakukan kimbizingan dan harus dilei oleh dua orang pembimbing

Lampiran 3. Sediaan *Lotion* Probiotik



Lampiran 4. Deskripsi Produk

Produk 1	Halal	EXP Desember 2024	BPOM
Produk 2	-	-	Tidak BPOM
Produk 3	-	-	Tidak BPOM
Produk 4	-	-	Tidak BPOM
Produk 5	-	EXP Agustus 2024	BPOM

Lampiran 5. Certificate of Analysis MRS

		
Certificate of Analysis		
Certificate of Analysis ID:	1106600500_VM1058960_EN	
Producer and client:	Merck KGaA, Frankfurter Str. 250, 64293 Darmstadt, Germany	
Test laboratory:	Merck KGaA Qualitätskontrolle für mikrobiologische Produkte Frankfurter Str. 250, 64293 Darmstadt, Germany	
Sample identification:	GranuCult® MRS Agar (de MAN, ROGOSA and SHARPE) acc. ISO 15214	
Ordering number:	1.10660.0500	
Lot number:	VM1058960	
Sample ID:	201403235	
Accreditation:		
Test method:	DIN EN ISO 11133:2020 Performance testing of solid culture media: Quantitative method (spiral plater) Qualitative method (spotting method)	
Date of analysis:	2023/07/21 SALINAN TERKENDALI PT Agritama Sinergi Inovasi (AGAVI)	
Date of release:	2023/08/14	
Minimum shelf life:	2028/07/31	
Composition (g/l):	Enzymatic digest of casein 10.0; Meat extract 10.0; Yeast extract 4.0; D(+)-Glucose 20.0; di-Potassium hydrogen phosphate 2.0; Tween® 80 1.0; di-Ammonium hydrogen citrate 2.0 (equivalent to 2.0 g/l Triammonium citrate); Sodium acetate 5.0; Magnesium sulfate heptahydrate 0.2; Manganese sulfate monohydrate 0.04 (equivalent to 0.05 g/l Manganese sulfate tetrahydrate); Agar-agar 14.0.	
Preparation & sterilization:	Dissolve 68.2 g in 1 l of purified water. Heat in boiling water, and agitate frequently until completely dissolved. Autoclave 15 minutes at 121 °C or use 118 °C to achieve improved growth of Bifidobacterium spp.	
Application:	For isolation, enumeration and cultivation of Lactobacillus spp. and other mesophilic lactic acid bacteria from all types of materials.	
Storage:	Store at +2 °C to +8 °C, dry and tightly closed. Do not use clumped or discolored medium. Protect from UV light (including sun light).	
The reported results refer exclusively to the specified medium, see Certificate of Analysis ID.		

Lampiran 6. Dokumentasi Penelitian Pribadi



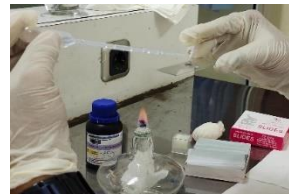
Pembuatan MRS



Pembuatan NaCl 0,85 %



Sterilisasi Alat



Pengujian Mikroskopis



Isolasi Sampel 1



Isolasi Sampel 2



Isolasi Sampel 3



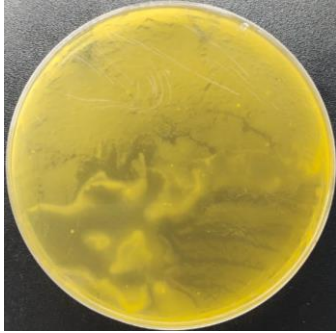
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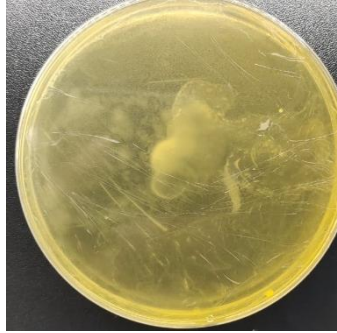
Isolasi Sampel 5



Titration (asam basa)

Lampiran 7. Hasil Uji Viabilitas Selama 7 Hari**Sampel 1**

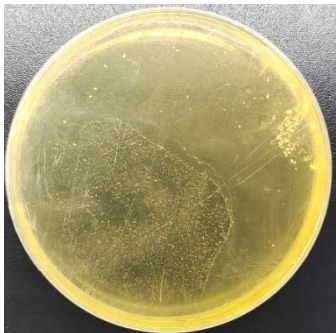
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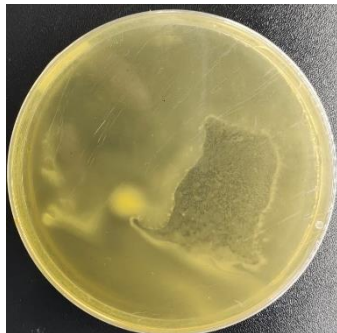
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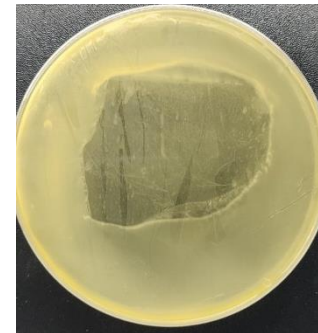
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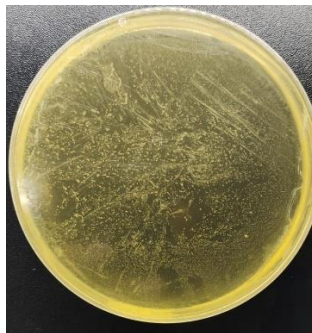
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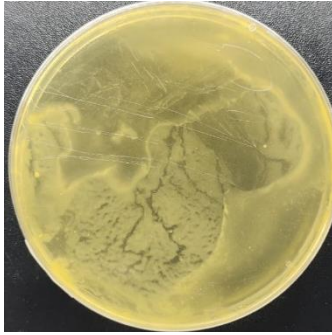
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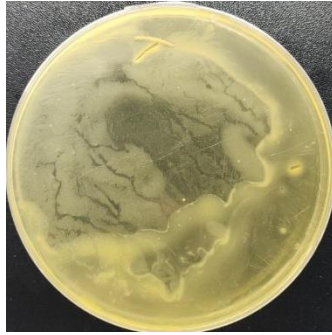
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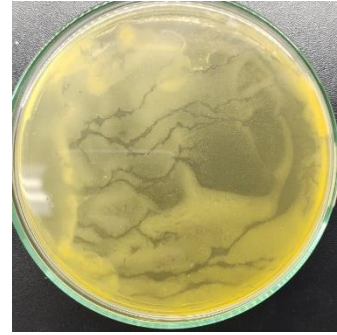
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Sampel 2

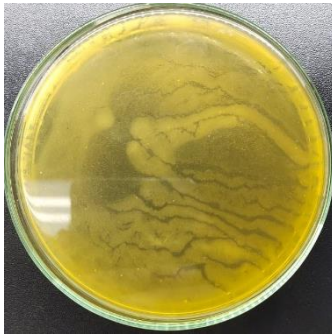
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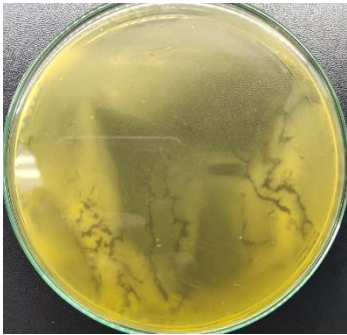
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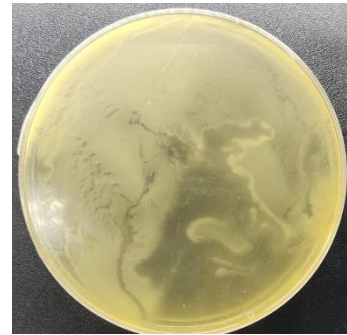
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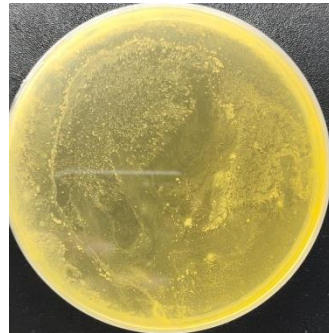
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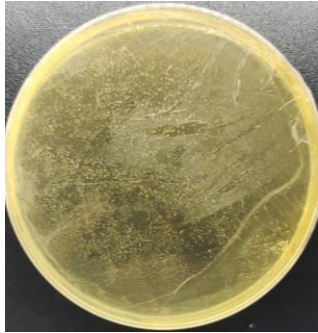
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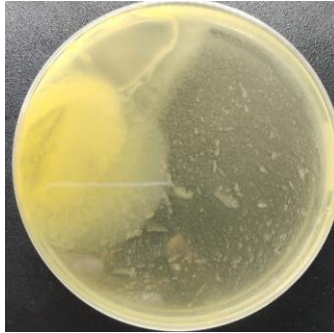
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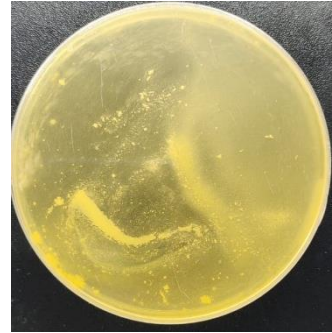
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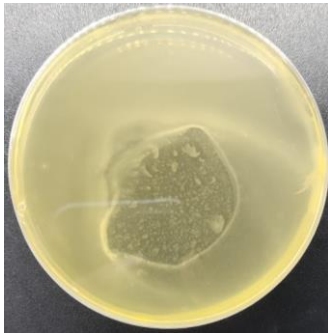
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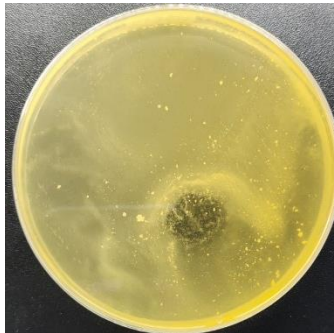
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Hari ke-3



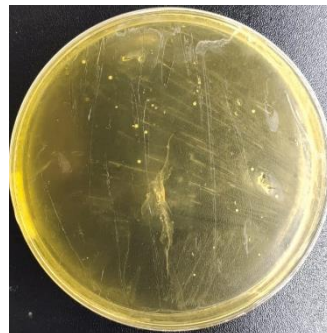
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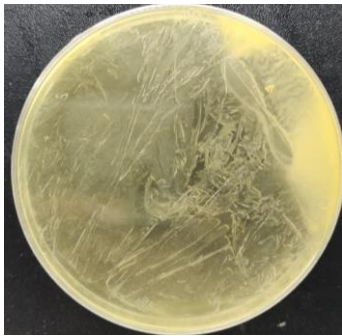
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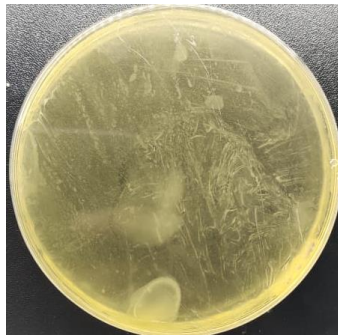
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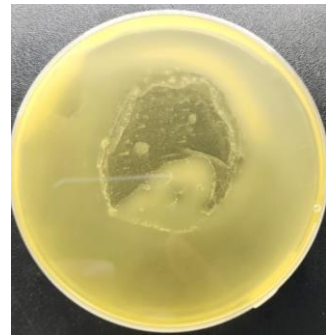
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Sampel 4

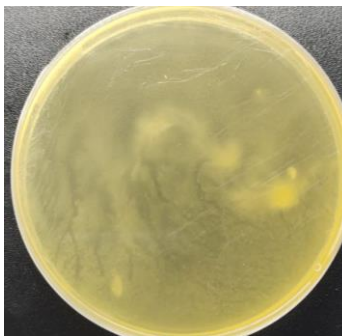
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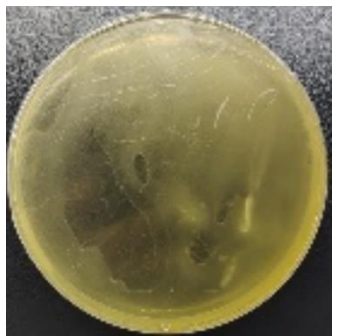
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Hari ke-3



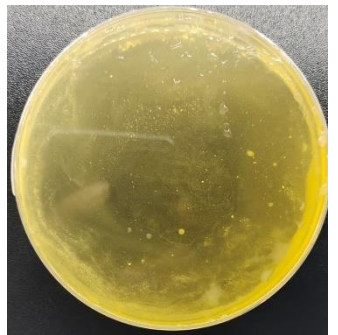
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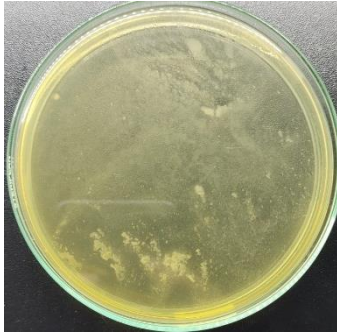
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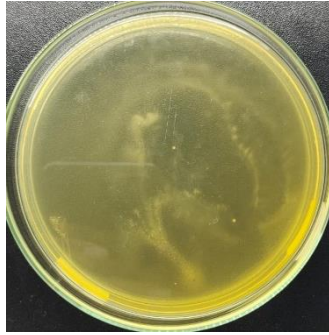
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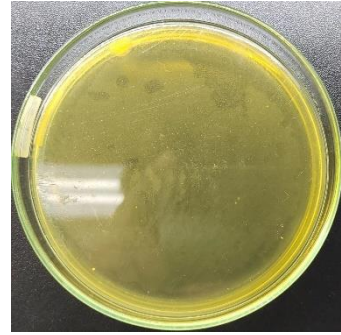
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Sampel 5

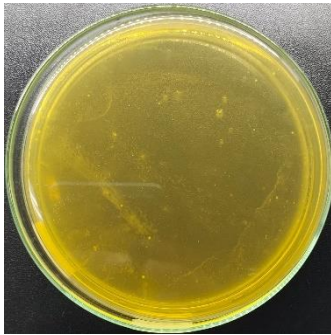
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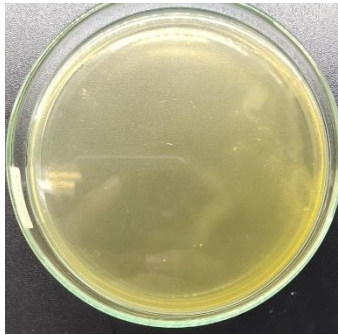
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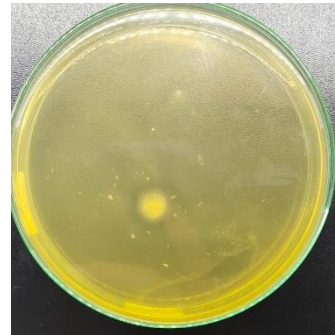
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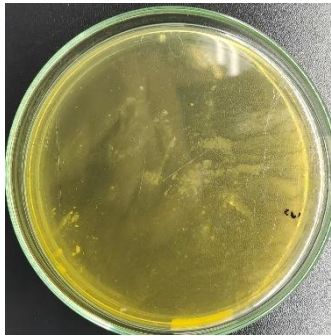
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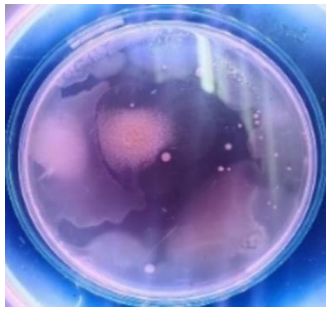
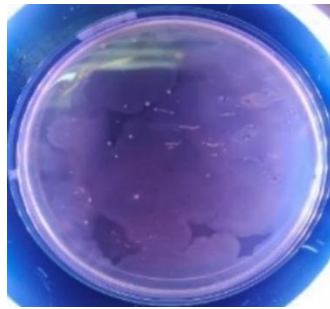
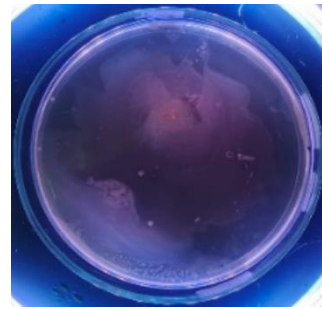
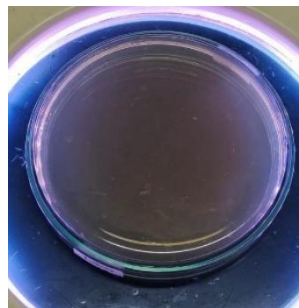
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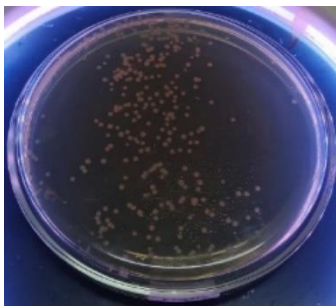
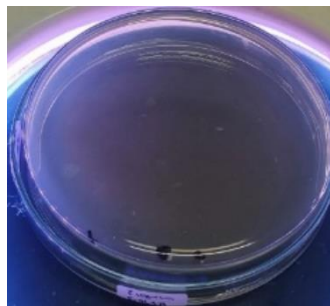
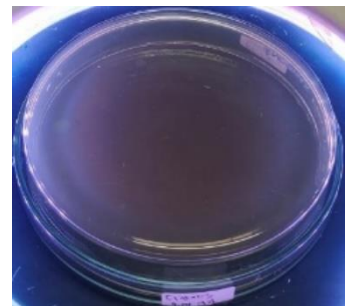
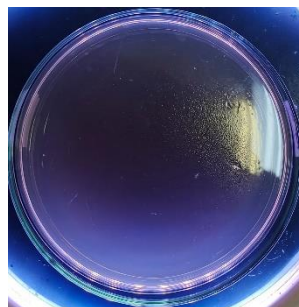
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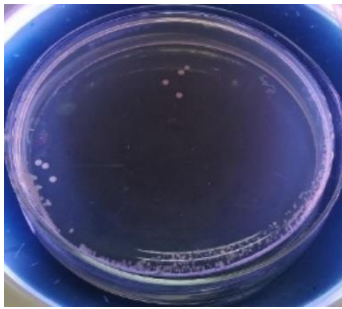
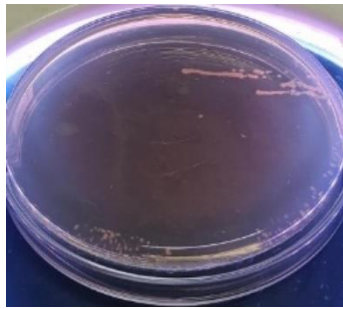
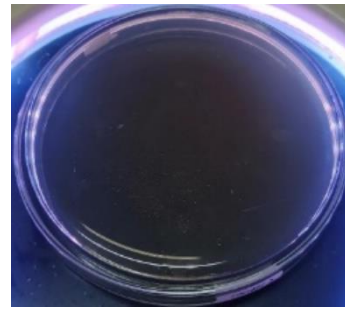
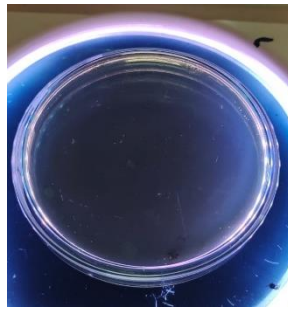
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Lampiran 8. Hasil Angka Lempeng Total (ALT) 10^{-4}  10^{-5}  10^{-6} 

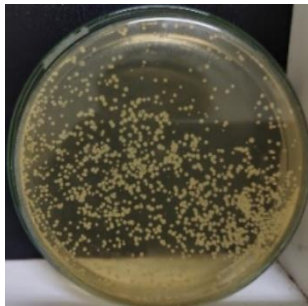
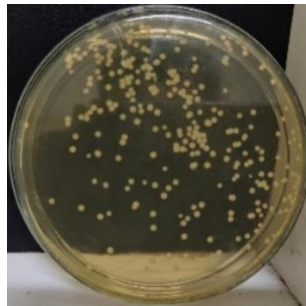
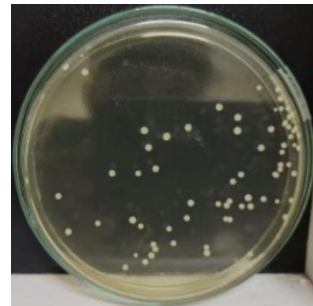
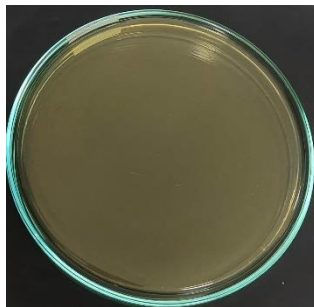
Kontrol Negatif

Sampel 2 10^{-4}  10^{-5}  10^{-6} 

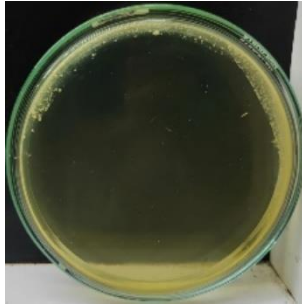
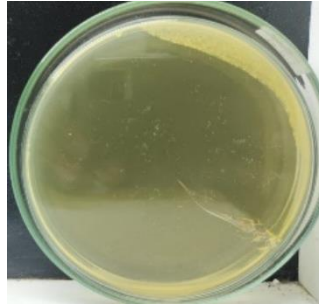
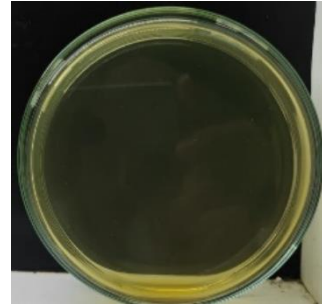
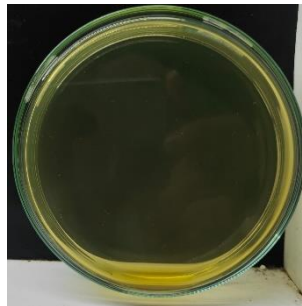
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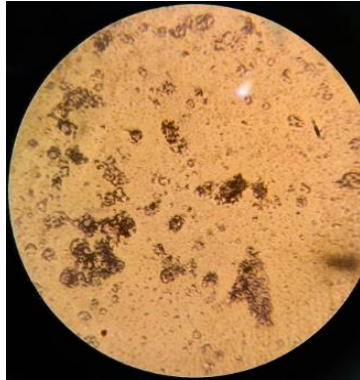
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Kontrol Negatif

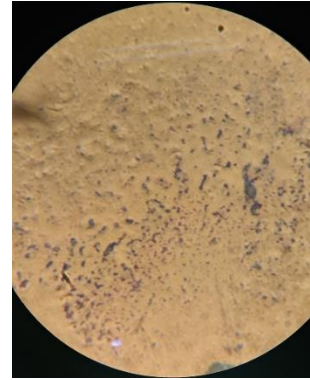
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Lampiran 9. Hasil Pemeriksaan Bakteri Secara Mikroskopis

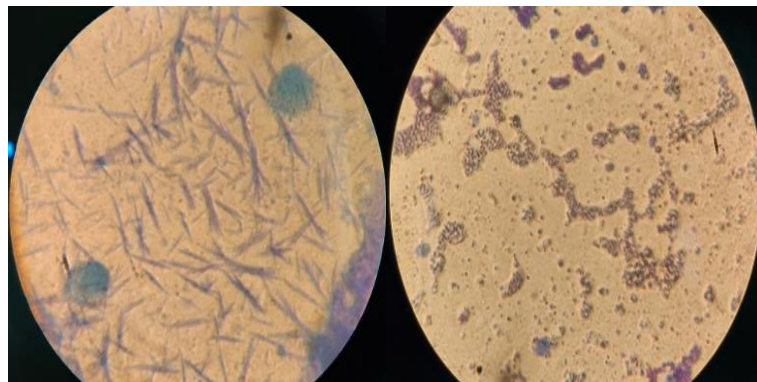
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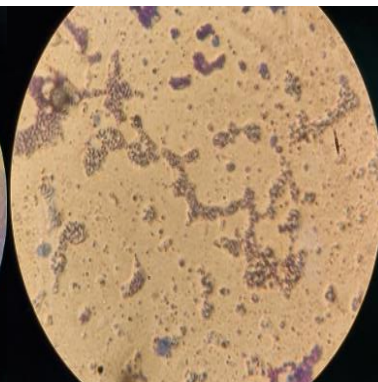
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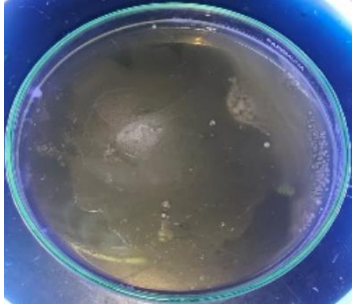
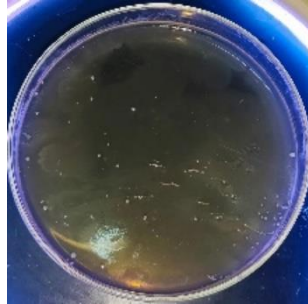
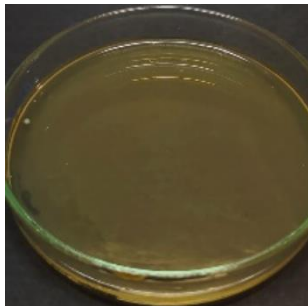
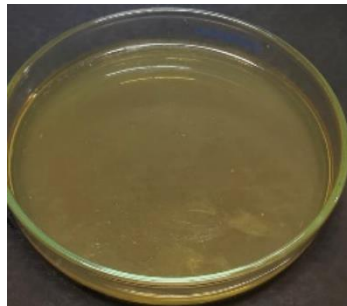
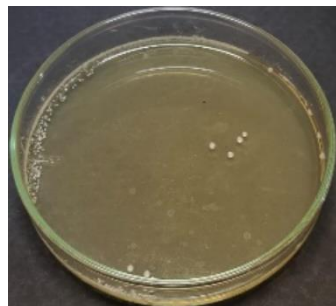
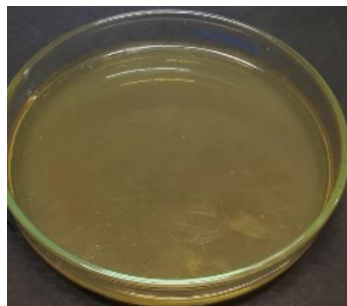
Sampel 3

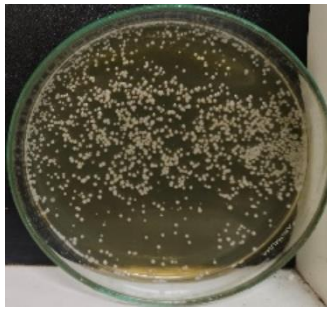
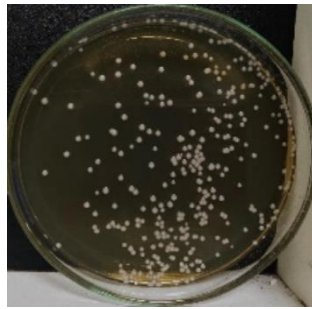
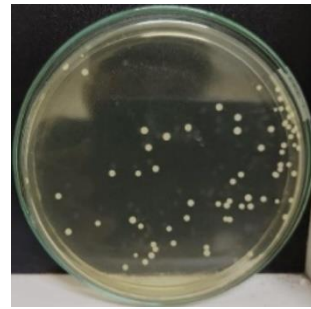
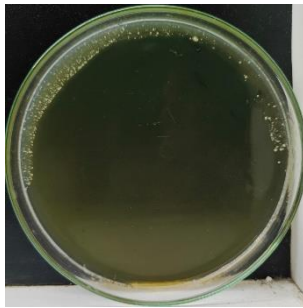
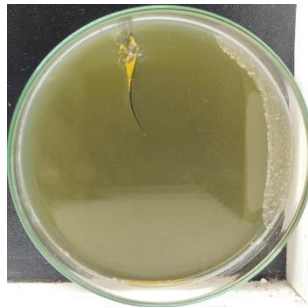
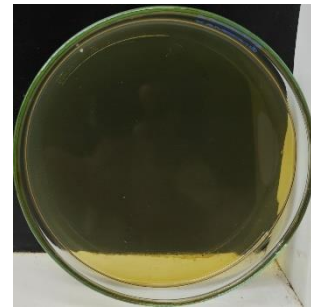


Sampel 4



Sampel 5

Lampiran 10. Hasil Pemeriksaan Bakteri Secara Makroskopis**Sampel 1** 10^{-4}  10^{-5}  10^{-6} **Sampel 2** 10^{-4}  10^{-5}  10^{-6} **Sampel 3** 10^{-4}  10^{-5}  10^{-6}

Sampel 4 10^{-4}  10^{-5}  10^{-6} **Sampel 5** 10^{-4}  10^{-5}  10^{-6}

Lampiran 11. Hasil Uji pH

Sampel 1



Sampel 2



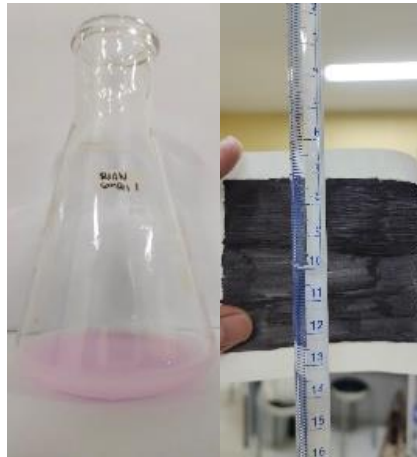
Sampel 3



Sampel 4



Sampel 5

Lampiran 12. Hasil Uji Kadar Asam Total**Sampel 1**

Pengulangan ke 1 = 10,1 mL



Pengulangan ke 2 = 9 mL



Pengulangan ke 3 = 7,9 mL

Sampel 2

Pengulangan ke 1 = 2 mL



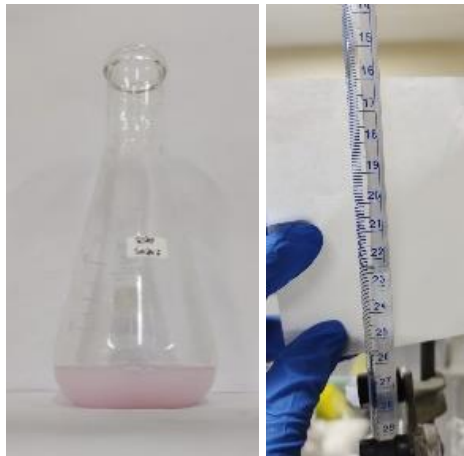
Pengulangan ke 2 = 1,8 mL



Pengulangan ke 3 = 2 mL

Sampel 3

Pengulangan ke 1 = 22,9 mL



Pengulangan ke 2 = 22,4 mL



Pengulangan ke 3 = 24,5 mL

Sampel 4

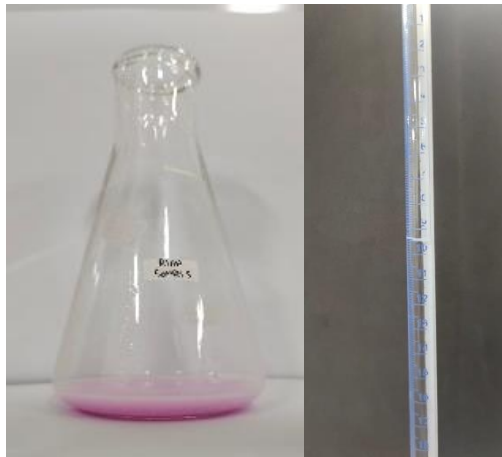
Pengulangan ke 1 = 10,8 mL



Pengulangan ke 2 = 11 mL



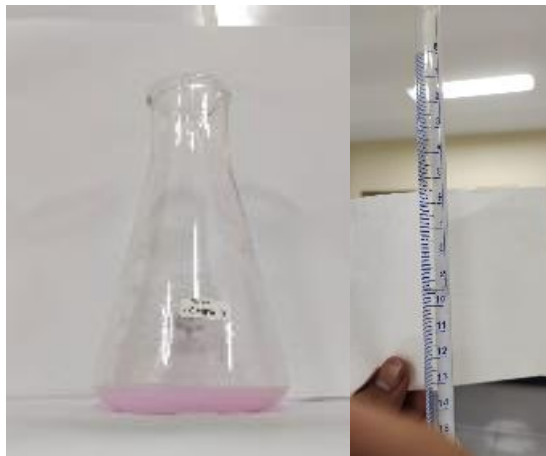
Pengulangan ke 3 = 10,3 mL

Sampel 5

Pengulangan ke 1 = 9,5 mL



Pengulangan ke 2 = 9 mL



Pengulangan ke 3 = 9,5 mL

Lampiran 13. Perhitungan Penelitian

Perhitungan Pembuatan Media MRS Agar

$$\begin{aligned}\text{Gram} &= \frac{68,2}{1000} \times \text{Volume} \\ &= \frac{68,2}{1000} \times 100 \\ &= 0,0682 \times 100 \\ &= 6,82 \text{ g}\end{aligned}$$

Perhitungan Pembuatan Larutan NaCl 0,85%

$$\begin{aligned}\text{Gram} &= \frac{0,85}{100} \times \text{Volume} \\ &= \frac{0,85}{100} \times 100 \\ &= 0,0085 \times 100 \\ &= 0,85 \text{ g}\end{aligned}$$

Perhitungan Total Plate Count

Sampel 1

$$\begin{aligned}\text{CFU/mL} &= \frac{107 \times 10^4 + 98 \times 10^5 + 71 \times 10^6}{3} \\ &= \frac{1.070.000 + 9.800.000 + 71.000.000}{3} \\ &= \frac{81.870.000}{3} \\ &= 27.290.000 \\ &= 27,3 \times 10^6 \text{ CFU/mL}\end{aligned}$$

Sampel 2

$$\begin{aligned}\text{CFU/mL} &= \frac{200 \times 10^4}{1} \\ &= \frac{2.000.000}{1} \\ &= 2.000.000 \\ &= 2 \times 10^6 \text{ CFU/mL}\end{aligned}$$

Sampel 3

$$\begin{aligned}
 \text{CFU/mL} &= \frac{120 \times 10^4 + 95 \times 10^5}{2} \\
 &= \frac{1.200.000 + 9.500.000}{2} \\
 &= \frac{10.700.000}{2} \\
 &= 5.350.000 \\
 &= 5,4 \times 10^6 \text{ CFU/mL}
 \end{aligned}$$

Sampel 4

$$\begin{aligned}
 \text{CFU/mL} &= \frac{200 \times 10^5 + 65 \times 10^6}{2} \\
 &= \frac{20.000.000 + 65.000.000}{2} \\
 &= \frac{85.000.000}{2} \\
 &= 42.500.000 \\
 &= 42,5 \times 10^5 \text{ CFU/mL}
 \end{aligned}$$

Sampel 5

$$\begin{aligned}
 \text{CFU/mL} &= \frac{206 \times 10^4 + 109 \times 10^5}{2} \\
 &= \frac{2.060.000 + 10.900.000}{2} \\
 &= \frac{12.960.000}{2} \\
 &= 6.480.000 \\
 &= 6,5 \times 10^5 \text{ CFU/mL}
 \end{aligned}$$

Perhitungan Titration Asam Basa

Pengulangan ke-1

Sampel 1

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{10,1 \text{ mL} \times 0,01 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{9,09}{10.000} \times 100\% \\
 &= 0,000909 \times 100\% \\
 &= 0,0909\%
 \end{aligned}$$

Sampel 2

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{2 \times 0,01 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{1,8}{10.000} \times 100\% \\
 &= 0,00018 \times 100\% \\
 &= 0,0018\%
 \end{aligned}$$

Sampel 3

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{22,9 \times 0,01 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{20,61}{10.000} \times 100\% \\
 &= 0,002061 \times 100\% \\
 &= 0,2061\%
 \end{aligned}$$

Sampel 4

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{10,8 \times 0,01 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{9,72}{10.000} \times 100\% \\
 &= 0,000972 \times 100\% \\
 &= 0,0972\%
 \end{aligned}$$

Sampel 5

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{9,5 \times 0,01 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{8,55}{10.000} \times 100\% \\
 &= 0,000855 \times 100\% \\
 &= 0,0855\%
 \end{aligned}$$

Pengulangan ke-2**Sampel 1**

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{9 \times 0,01 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{8,1}{10.000} \times 100\% \\
 &= 0,00081 \times 100\% \\
 &= 0,0081\%
 \end{aligned}$$

Sampel 2

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{1,8 \times 0,01 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{1,62}{10.000} \times 100\% \\
 &= 0,000162 \times 100\% \\
 &= 0,0162\%
 \end{aligned}$$

Sampel 3

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{22,4 \times 0,01 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{20,16}{10.000} \times 100\% \\
 &= 0,002016 \times 100\% \\
 &= 0,2016\%
 \end{aligned}$$

Sampel 4

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{11 \times 0,01 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{9,9}{10.000} \times 100\% \\
 &= 0,00099 \times 100\% \\
 &= 0,0099\%
 \end{aligned}$$

Sampel 5

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{9 \times 0,01 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{8,1}{10.000} \times 100\% \\
 &= 0,00081 \times 100\% \\
 &= 0,0081\%
 \end{aligned}$$

Pengulangan ke-3**Sampel 1**

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{7,9 \times 0,01 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{7,11}{10.000} \times 100\% \\
 &= 0,000711 \times 100\% \\
 &= 0,0711\%
 \end{aligned}$$

Sampel 2

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{2 \times 0,01 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{1,8}{10.000} \times 100\% \\
 &= 0,00018 \times 100\% \\
 &= 0,0018\%
 \end{aligned}$$

Sampel 3

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{24,5 \times 0,01 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{22,05}{10.000} \times 100\% \\
 &= 0,002205 \times 100\% \\
 &= 0,2205\%
 \end{aligned}$$

Sampel 4

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{10,3 \times 0,01 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{9,27}{10.000} \times 100\% \\
 &= 0,000927 \times 100\% \\
 &= 0,0927\%
 \end{aligned}$$

Sampel 5

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{9,5 \times 0,01 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{8,55}{10.000} \times 100\% \\
 &= 0,000855 \times 100\% \\
 &= 0,0855\%
 \end{aligned}$$

Rata-rata %Asam Laktat

$$\begin{aligned}
 \text{Sampel 1} &= \frac{0,0909 + 0,0081 + 0,0711}{3} \\
 &= 0,0567\%
 \end{aligned}$$

$$\begin{aligned}
 \text{Sampel 2} &= \frac{0,0018 + 0,0162 + 0,0018}{3} \\
 &= 0,0066\%
 \end{aligned}$$

$$\begin{aligned}
 \text{Sampel 3} &= \frac{0,2061 + 0,2016 + 0,2205}{3} \\
 &= 0,2094\%
 \end{aligned}$$

$$\begin{aligned}
 \text{Sampel 4} &= \frac{0,0972 + 0,0099 + 0,0927}{3} \\
 &= 0,0666\%
 \end{aligned}$$

$$\begin{aligned}
 \text{Sampel 5} &= \frac{0,0855 + 0,081 + 0,0855}{3} \\
 &= 0,0597\%
 \end{aligned}$$

Lampiran 14. Curriculum Vitae (CV)**DAFTAR RIWAYAT HIDUP****Data Pribadi / Personal Details**

Nama / <i>Name</i>	: Rian Fauzian Nugraha
Alamat / <i>Address</i>	: Kp. Cerelek 1 RT 013 RW 006 Desa Gunung Sembung, Kecamatan Pagaden, Kabupaten Subang, Jawa Barat
Kode Pos / <i>Postal Code</i>	: 41252
Nomor Telepon / <i>Phone Number</i>	: 082120892873
Email	: rianfauzian80@gmail.com
Jenis Kelamin / <i>Gender</i>	: Laki-Laki
Tanggal Kelahiran / <i>Date of Birth</i>	: Bandung, 27 Juni 2001
Warga Negara / <i>Nationality</i>	: Indonesia
Agama / <i>Religion</i>	: ISLAM
Pendidikan	: SD Negeri Gunung Sembung SMP Negeri 6 Subang SMA 1 PGRI Subang Universitas Bhakti Kencana