

LAMPIRAN

Lampiran 1. Hasil Turnitin

Mochammad Aditya Hardyansah_201FF03134_Skripsi.pdf			
ORIGINALITY REPORT			
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PRIMARY SOURCES			
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Lampiran 2. Lembar Bimbingan



Fakultas Farmasi
Universitas
Bhakti Kencana

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



KARTU BIMBINGAN TUGAS AKHIR I/TUGAS AKHIR II

Pembimbing Utama	: Ira Adiyati Rum, M.Si.				
Nama Mahasiswa	: Mochammad Aditya Hardiansah				
NPM	: 201FF03134				
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	J R
2	Selasa, 27 Februari 2024	10.00 WIB	Laboratorium Mikrobiologi	Lubham TA2	J R
3	Selasa, 19 Maret 2024	14.00 WIB	Whats App	Konsultasi Bahan Penelitian	J R
4	Sabtu, 23 Maret 2024	09.00 WIB	Google Meet	Persiapan Penelitian	J R
5	Sabtu, 20 April 2024	08.30 WIB	Google Meet	Total Plate Count	J R
6	Jum'at, 26 April 2024	20.00 WIB	Google Meet	Total Plate Count + Mikroskopik	J R
7	Senin, 29 April 2024	21.00 WIB	Google Meet	Laporan Kemajuan 1	J R
8	Minggu, 19 Mei 2024	19.00 WIB	Google Meet	Total plate Count + Mikroskopik	J R
9	Sabtu, 25 Mei 2024	08.30 WIB	Zoom Meeting	Laporan Kemajuan 2	J R
10	Minggu, 2 Juni 2024	16.00 WIB	Google Meet	Total Plate Count	J R
11	Selasa, 18 Juni 2024	08.00 WIB	Google Meet	Total Plate Count	J R
12	Jum'at, 4 Juli 2024	09.00 WIB	Kampus UM Bandung	BAB 9	J R
13	Senin, 8 Juli 2024	21.00 WIB	Google Meet	BAB 9	J R
14	Rabu, 10 Juli 2024	19.00 WIB	Google Meet	BAB 4	J R

📍 Jl. Soekarno Hatta No 754 Bandung

☎ 022 7830 760, 022 7830 768

✉ bku.ac.id contact@bku.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	: Mochammad Aditya Haryansah
NPM	: 201FF03134
Bidang Ilmu	: Farmasetika dan Teknologi Farmasi (FTF)

[illegible]

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

Lampiran 3. 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) SALINAN TERKENDALI PT Agrisma Sinergi Inovasi (AGAVI) 2023/07/21
Date of analysis:	2023/07/21
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 tetrathhydrate); 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.	
Merck KGaA - Frankfurter Straße 250 - 64293 Darmstadt - Germany - +49 6151 77-7440 - 1106600500_VM1058960_EN	

Lampiran 4. Dokumentasi Penelitian



Penimbangan MRS



Penimbangan NaCl



Pembuatan MRS Agar



Pembuatan Larutan NaCl 0,85%



Proses Sterilisasi Alat



Pengujian Mikroskopis



NaOH 0,02 N



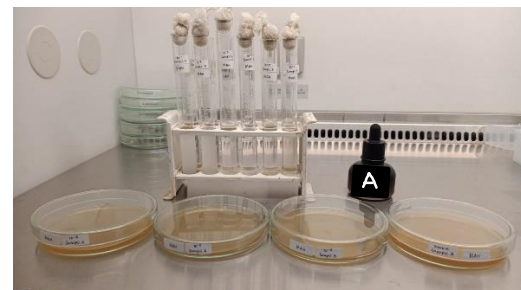
Uji Titrasi Asam Laktat



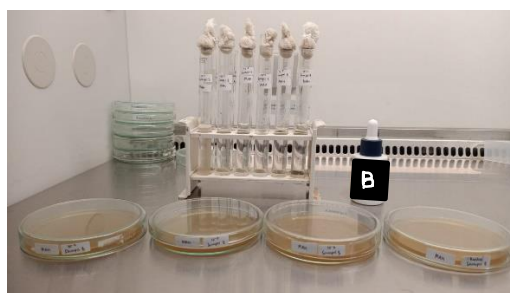
MRS Agar



Indikator PP 0,5%

*Methylene Blue*

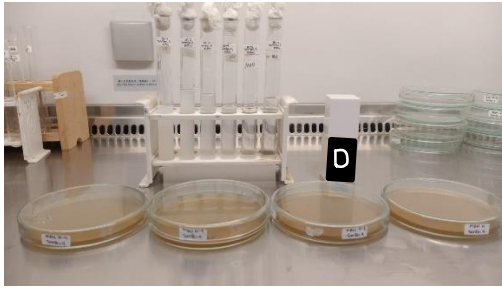
Isolasi Mikroba Sampel A



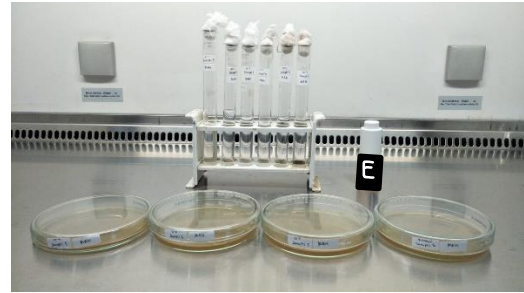
Isolasi Mikroba Sampel B



Isolasi Mikroba Sampel C



Isolasi Mikroba Sampel D



Isolasi Mikroba Sampel E

Lampiran 5. Perhitungan

1. Perhitungan Pembuatan Media MRS Agar

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

2. Perhitungan Pembuatan Larutan NaCl 0,85%

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

3. Perhitungan Total Plate Count

Sampel A

$$\begin{aligned}\text{CFU/mL} &= \frac{278 \times 10^4 + 1.830 \times 10^4 + 11.200 \times 10^4}{3} \\ &= \frac{2.780.000 + 18.300.000 + 112.000.000}{3} \\ &= \frac{133.080.000}{3} \\ &= 44.060.000 \\ &= 44,1 \times 10^6 \text{ CFU/mL}\end{aligned}$$

Sampel B

$$\begin{aligned}\text{CFU/mL} &= \frac{324 \times 10^4 + 2.940 \times 10^4 + 16.800 \times 10^4}{3} \\ &= \frac{3.240.000 + 29.400.000 + 168.000.000}{3} \\ &= \frac{200.640.000}{3} \\ &= 66.880.000 \\ &= 66,9 \times 10^6 \text{ CFU/mL}\end{aligned}$$

Sampel C

$$\begin{aligned}
 \text{CFU/mL} &= \frac{538 \times 10^4 + 2.730 \times 10^4 + 15.600 \times 10^4}{3} \\
 &= \frac{5.380.000 + 27.300.000 + 156.000.000}{3} \\
 &= \frac{188.680.000}{3} \\
 &= 62.893.333 \\
 &= 62,9 \times 10^6 \text{ CFU/mL}
 \end{aligned}$$

Sampel D

$$\begin{aligned}
 \text{CFU/mL} &= \frac{512 \times 10^4 + 4.810 \times 10^4 + 22.100 \times 10^4}{3} \\
 &= \frac{5.120.000 + 48.100.000 + 221.000.000}{3} \\
 &= \frac{274.220.000}{3} \\
 &= 91.406.666 \\
 &= 91,4 \times 10^6 \text{ CFU/mL}
 \end{aligned}$$

Sampel E

$$\begin{aligned}
 \text{CFU/mL} &= \frac{232 \times 10^4 + 1.090 \times 10^4}{2} \\
 &= \frac{2.320.000 + 10.900.000}{2} \\
 &= \frac{13.220.000}{2} \\
 &= 6.610.000 \\
 &= 6,6 \times 10^6 \text{ CFU/mL}
 \end{aligned}$$

Perhitungan Titrasi Asam Laktat

Pengulangan ke-1

Sampel A

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{6 \text{ mL} \times 0,02 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{10,8}{10.000} \times 100\% \\
 &= 0,00108 \times 100\% \\
 &= 0,108\%
 \end{aligned}$$

Sampel B

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{4,2 \times 0,02 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{7,56}{10.000} \times 100\% \\
 &= 0,000756 \times 100\% \\
 &= 0,0756\%
 \end{aligned}$$

Sampel C

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{5,9 \times 0,02 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{10,62}{10.000} \times 100\% \\
 &= 0,001062 \times 100\% \\
 &= 0,1062\%
 \end{aligned}$$

Sampel D

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{3,7 \times 0,02 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{6,66}{10.000} \times 100\% \\
 &= 0,000666 \times 100\% \\
 &= 0,0666\%
 \end{aligned}$$

Sampel E

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{2,4 \times 0,02 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{4,32}{10.000} \times 100\% \\
 &= 0,000432 \times 100\% \\
 &= 0,0432\%
 \end{aligned}$$

Pengulangan ke-2

Sampel A

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{4,1 \times 0,02 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{7,38}{10.000} \times 100\% \\
 &= 0,000738 \times 100\% \\
 &= 0,0738\%
 \end{aligned}$$

Sampel B

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{4,8 \times 0,02 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{8,64}{10.000} \times 100\% \\
 &= 0,000864 \times 100\% \\
 &= 0,0864\%
 \end{aligned}$$

Sampel C

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{6,2 \times 0,02 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{11,16}{10.000} \times 100\% \\
 &= 0,001116 \times 100\% \\
 &= 0,1116\%
 \end{aligned}$$

Sampel D

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{5,1 \times 0,02 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{9,18}{10.000} \times 100\% \\
 &= 0,000918 \times 100\% \\
 &= 0,0918\%
 \end{aligned}$$

Sampel E

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{4 \times 0,02 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{7,2}{10.000} \times 100\% \\
 &= 0,00072 \times 100\% \\
 &= 0,072\%
 \end{aligned}$$

Pengulangan ke-3

Sampel A

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{4,4 \times 0,02 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{7,92}{10.000} \times 100\% \\
 &= 0,000792 \times 100\% \\
 &= 0,0792\%
 \end{aligned}$$

Sampel B

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{3,8 \times 0,02 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{6,84}{10.000} \times 100\% \\
 &= 0,000684 \times 100\% \\
 &= 0,0684\%
 \end{aligned}$$

Sampel C

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{6,8 \times 0,02 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{12,24}{10.000} \times 100\% \\
 &= 0,001224 \times 100\% \\
 &= 0,1124\%
 \end{aligned}$$

Sampel D

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{6,4 \times 0,02 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{11,52}{10.000} \times 100\% \\
 &= 0,001152 \times 100\% \\
 &= 0,1152\%
 \end{aligned}$$

Sampel E

$$\begin{aligned}
 \% \text{Asam Laktat} &= \frac{mL \text{ NaOH} \times N \text{ NaOH} \times 90}{\text{volume sampel} \times 1.000} \times 100\% \\
 &= \frac{3,5 \times 0,02 \text{ N} \times 90}{10 \text{ mL} \times 1.000} \times 100\% \\
 &= \frac{6,3}{10.000} \times 100\% \\
 &= 0,00063 \times 100\% \\
 &= 0,063\%
 \end{aligned}$$

Rata-rata %Asam Laktat

$$\begin{aligned}
 \textbf{Sampel A} &= \frac{0,108 + 0,0738 + 0,0792}{3} \\
 &= 0,087\%
 \end{aligned}$$

$$\begin{aligned}
 \textbf{Sampel B} &= \frac{0,0756 + 0,0864 + 0,0684}{3} \\
 &= 0,0768\%
 \end{aligned}$$

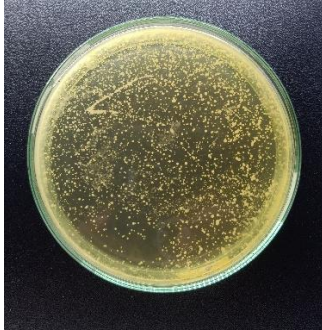
$$\begin{aligned}
 \textbf{Sampel C} &= \frac{0,1062 + 0,1116 + 0,1224}{3} \\
 &= 0,1134\%
 \end{aligned}$$

$$\begin{aligned}
 \textbf{Sampel D} &= \frac{0,0666 + 0,0918 + 0,1152}{3} \\
 &= 0,0912\%
 \end{aligned}$$

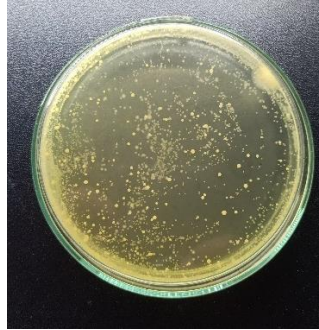
$$\begin{aligned}
 \textbf{Sampel E} &= \frac{0,0432 + 0,072 + 0,063}{3} \\
 &= 0,0594\%
 \end{aligned}$$

Lampiran 6. Deskripsi Produk Skincare Serum Probiotik

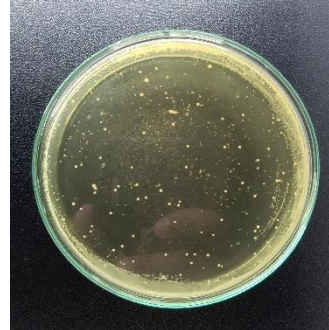
Sampel	Label Halal	Expire Date	Label BPOM
A	-	12 Juli 2024	√
B	√	Juli 2026	√
C	-	31 Mei 2025	√
D	-	September 2024	√
E	-	Desember 2025	√

Lampiran 7. Hasil Uji Viabilitas *Skincare* Serum Probiotik**Sampel A**

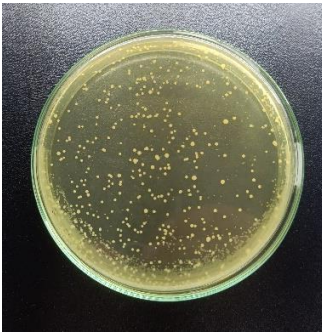
Hari ke-1



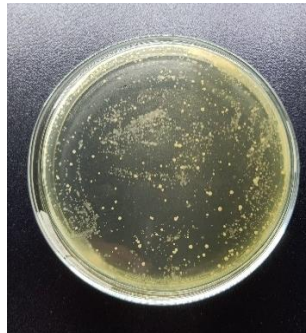
Hari ke-2



Hari ke-3



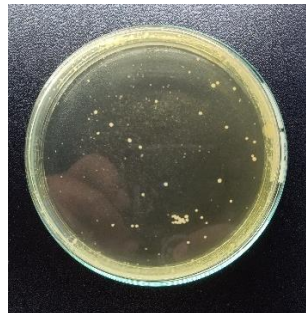
Hari ke-4



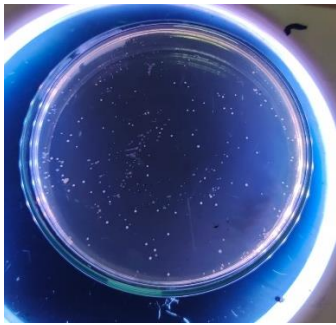
Hari ke-5



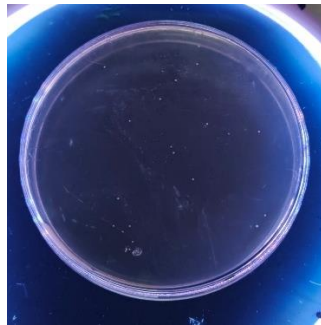
Hari ke-6



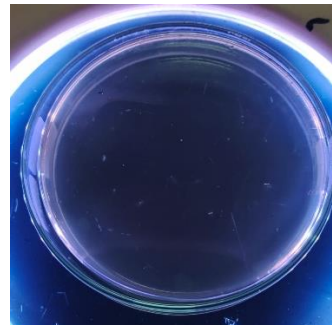
Hari ke-7

Sampel B

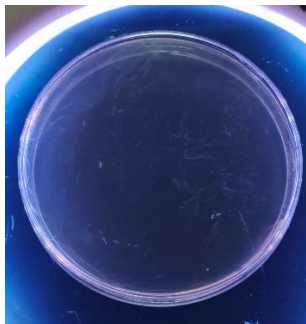
Hari ke-1



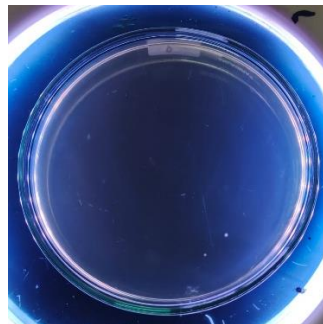
Hari ke-2



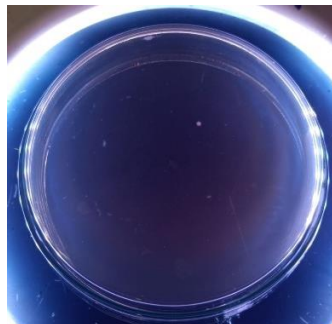
Hari ke-3



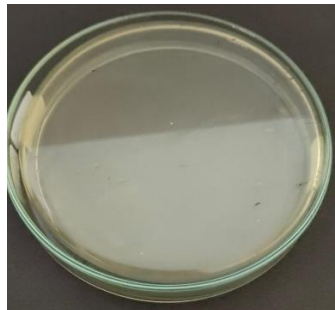
Hari ke-4



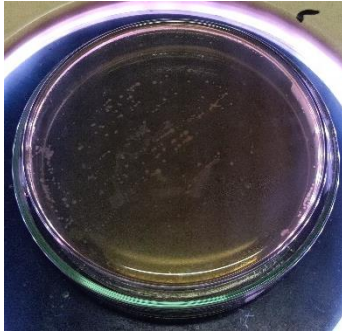
Hari ke-5



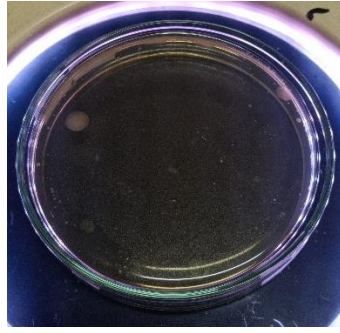
Hari ke-6



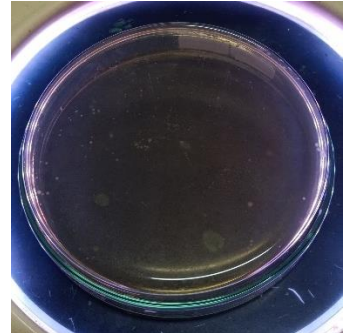
Hari ke-7

Sampel C

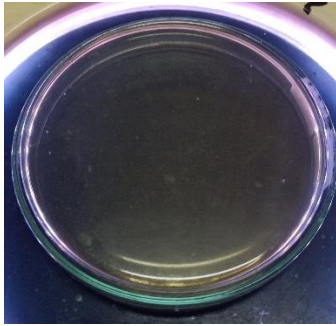
Hari ke-1



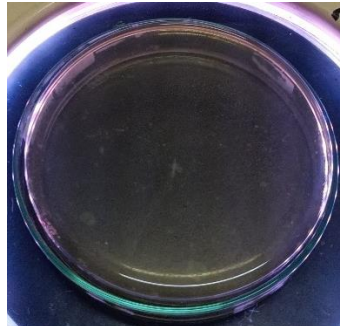
Hari ke-2



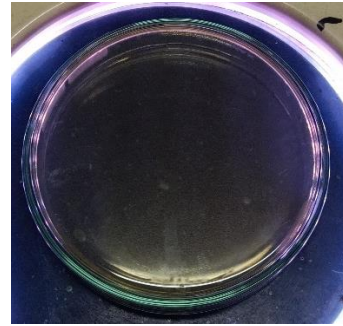
Hari ke-3



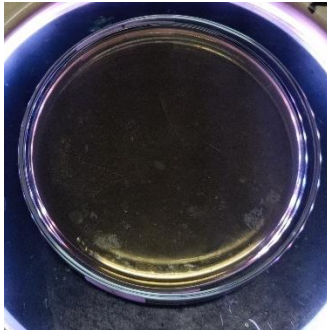
Hari ke-4



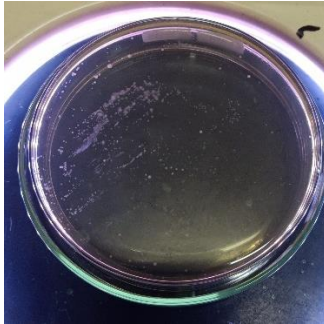
Hari ke-5



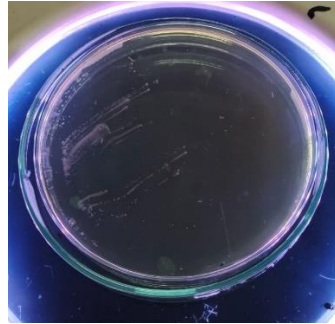
Hari ke-6



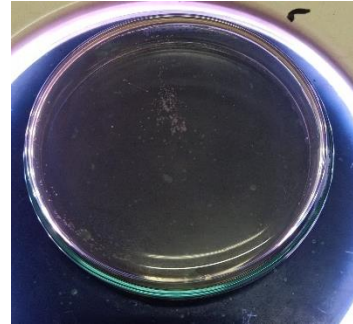
Hari ke-7

Sampel D

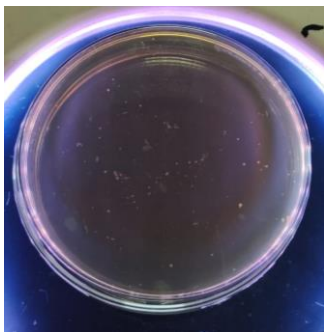
Hari ke-1



Hari ke-2



Hari ke-3



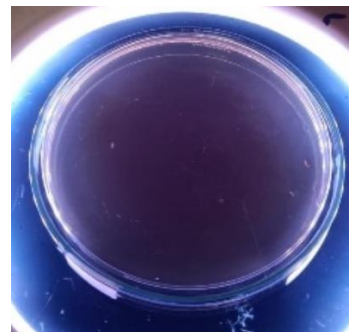
Hari ke-4



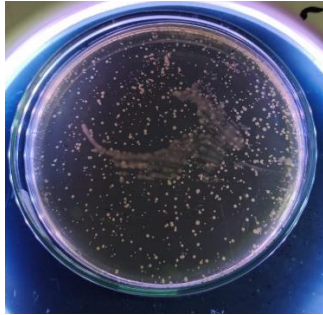
Hari ke-5



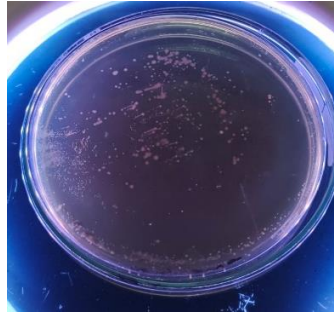
Hari ke-6



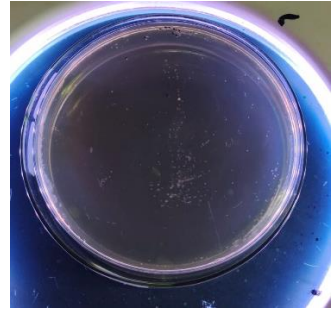
Hari ke-7

Sampel E

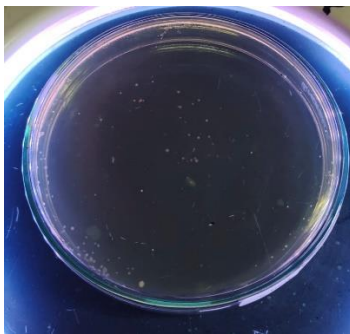
Hari ke-1



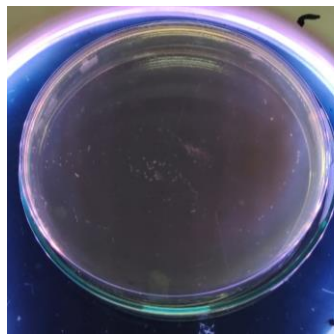
Hari ke-2



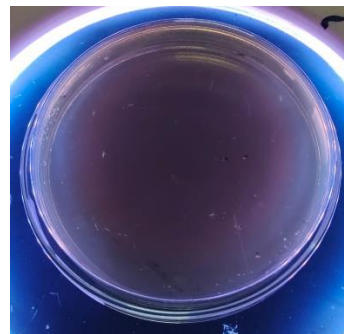
Hari ke-3



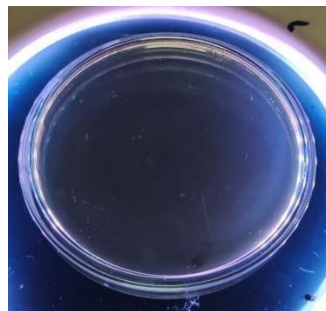
Hari ke-4



Hari ke-5



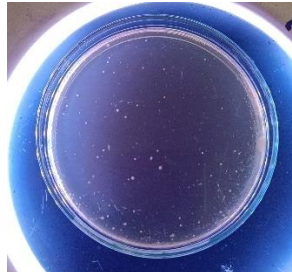
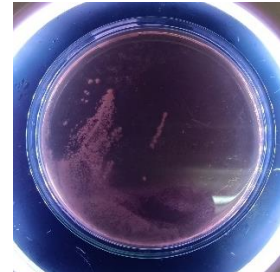
Hari ke-6



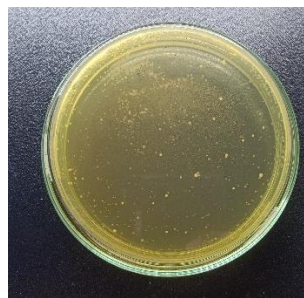
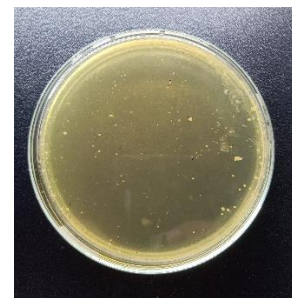
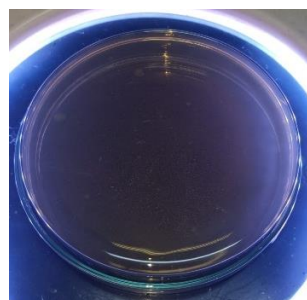
Hari ke-7

Lampiran 8. Hasil Total Plate Count *Skincare* Serum Probiotik

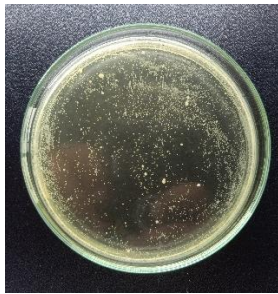
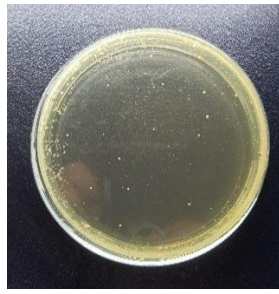
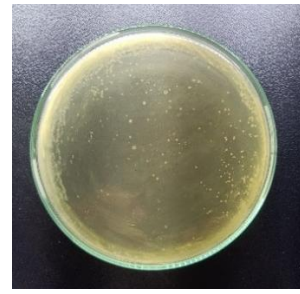
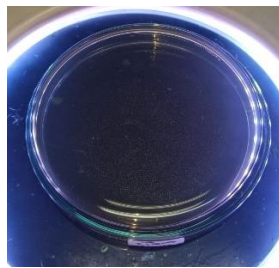
1. Pengulangan ke-1

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

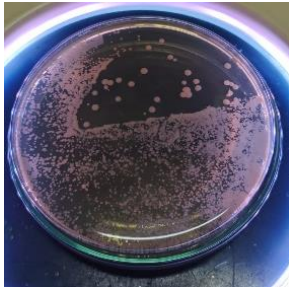
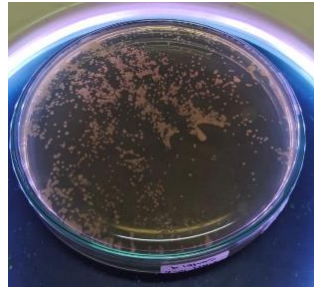
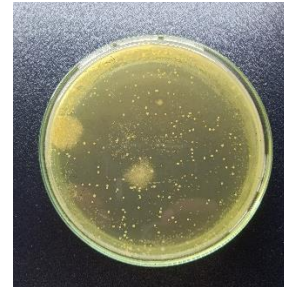
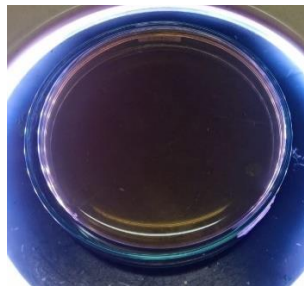
Kontrol Negatif

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

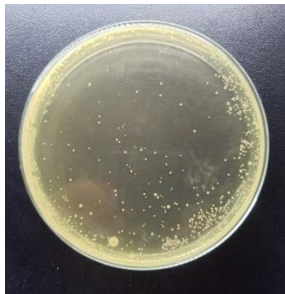
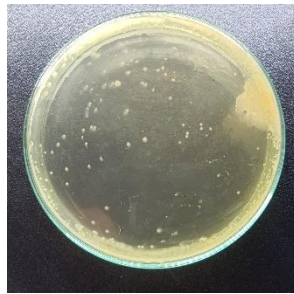
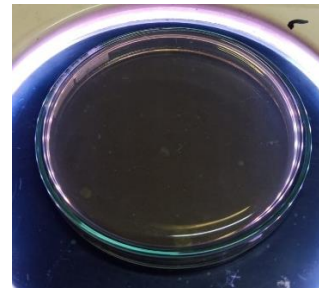
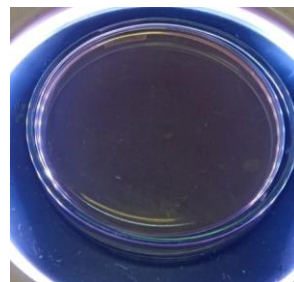
Kontrol Negatif

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

Kontrol Negatif

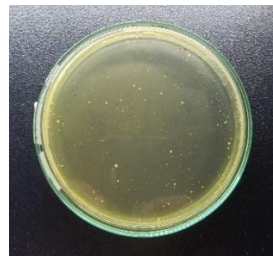
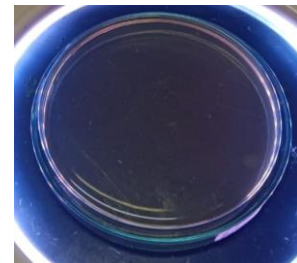
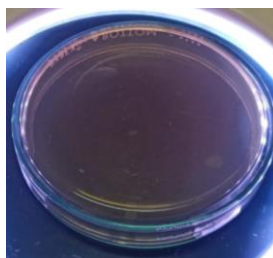
Sampel D 10^{-4}  10^{-5}  10^{-6} 

Kontrol Negatif

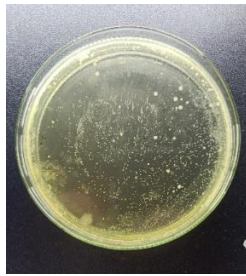
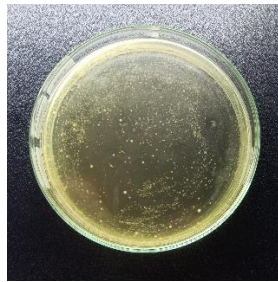
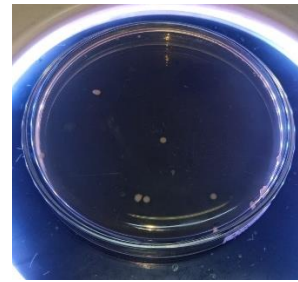
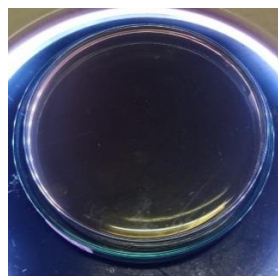
Sampel E 10^{-4}  10^{-5}  10^{-6} 

Kontrol Negatif

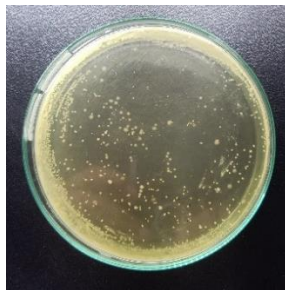
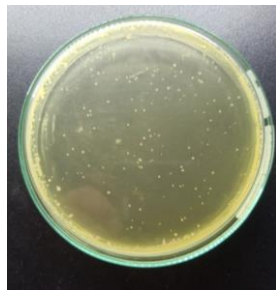
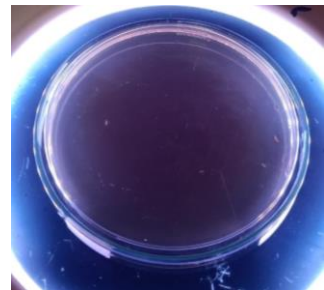
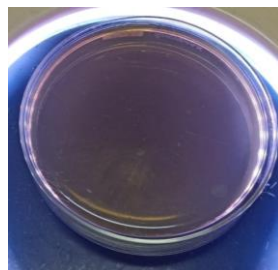
2. Pengulangan ke-2

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

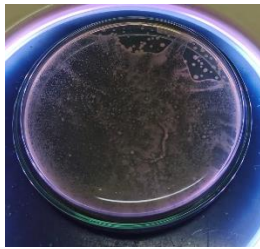
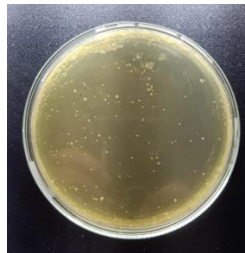
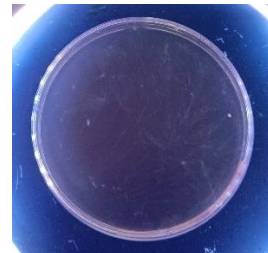
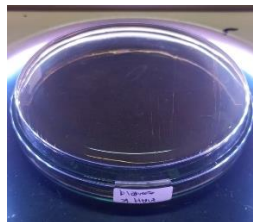
Kontrol Negatif

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

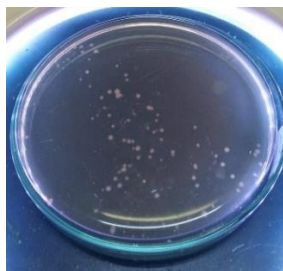
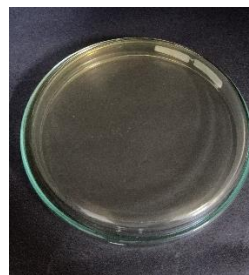
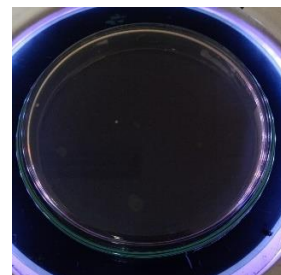
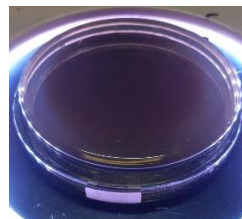
Kontrol Negatif

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

Kontrol Negatif

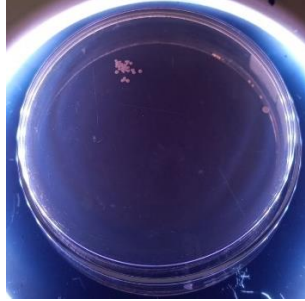
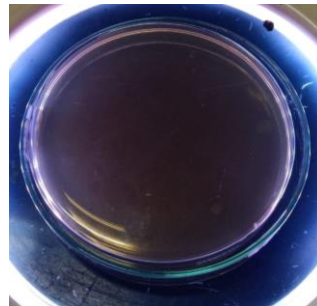
Sampel D 10^{-4}  10^{-5}  10^{-6} 

Kontrol Negatif

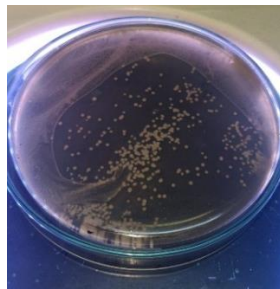
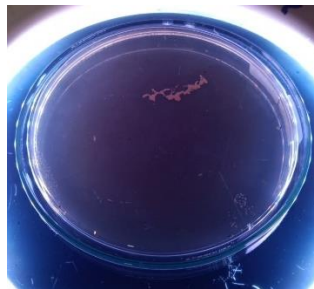
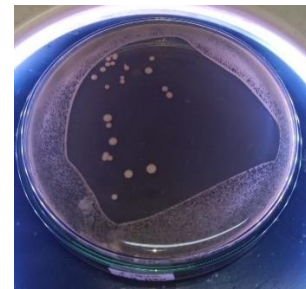
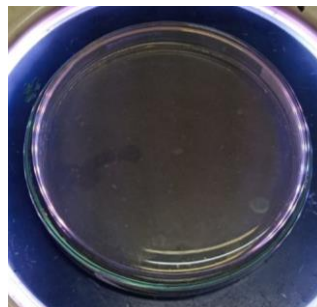
Sampel E 10^{-4}  10^{-5}  10^{-6} 

Kontrol Negatif

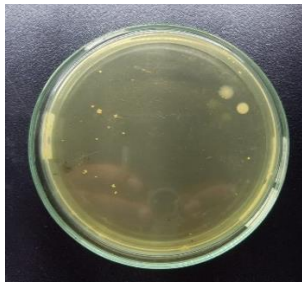
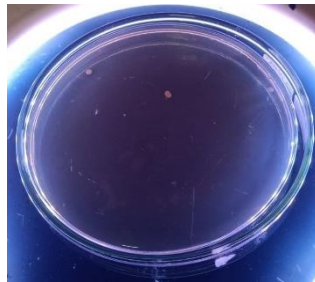
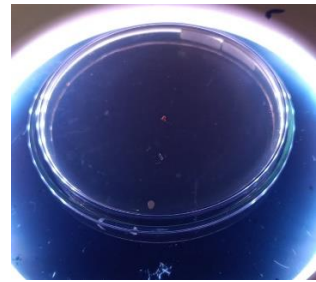
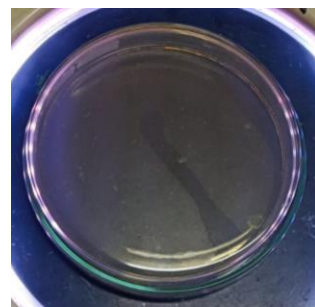
3. Pengulangan ke-3

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

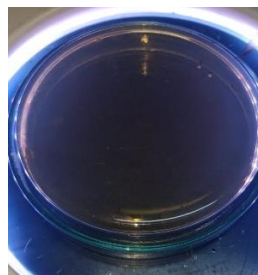
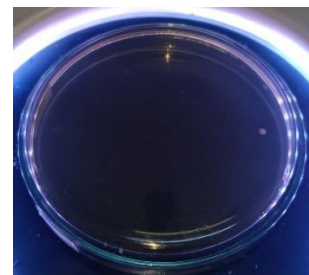
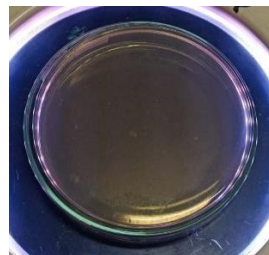
Kontrol Negatif

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

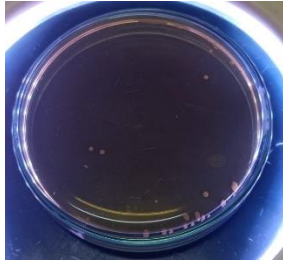
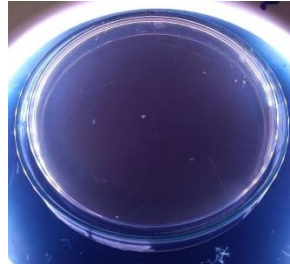
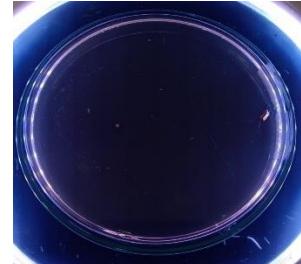
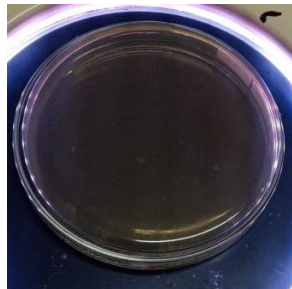
Kontrol Negatif

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

Kontrol Negatif

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

Kontrol Negatif

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

Kontrol Negatif

Lampiran 9. Tabel Hasil *Total Plate Count* Secara Triplo

1. Pengulangan ke-1

Sampel	Media	Pengamatan			
		Cawan 10^{-4}	Cawan 10^{-5}	Cawan 10^{-6}	Kontrol Negatif
A	MRS	278	183	112	0
B	MRS	324	294	168	0
C	MRS	538	273	156	0
D	MRS	512	481	221	0
E	MRS	232	109	0	0

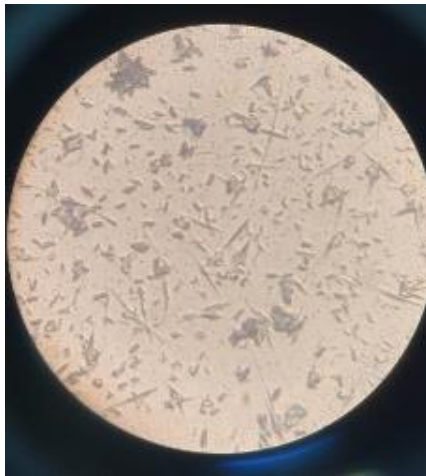
2. Pengulangan ke-2

Sampel	Media	Pengamatan			
		Cawan 10^{-4}	Cawan 10^{-5}	Cawan 10^{-6}	Kontrol Negatif
A	MRS	297	181	0	0
B	MRS	328	286	20	0
C	MRS	294	179	0	0
D	MRS	543	126	1	0
E	MRS	103	21	2	0

3. Pengulangan ke-3

Sampel	Media	Pengamatan			
		Cawan 10^{-4}	Cawan 10^{-5}	Cawan 10^{-6}	Kontrol Negatif
A	MRS	70	33	2	0
B	MRS	300	112	23	0
C	MRS	41	4	1	0
D	MRS	223	6	4	0
E	MRS	31	8	2	0

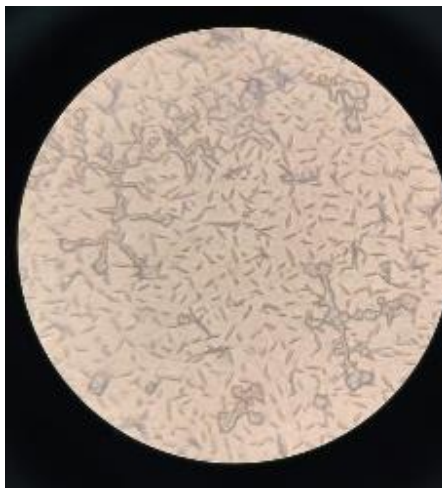
Lampiran 10. Hasil Uji Mikroskopis pada *Skincare* Serum Probiotik



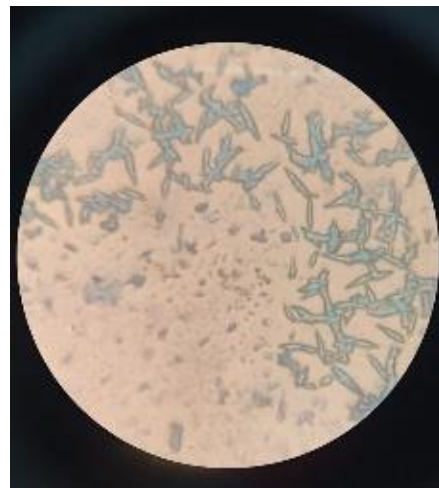
SAMPEL A



SAMPEL B



SAMPEL C



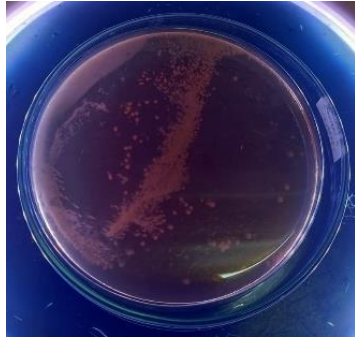
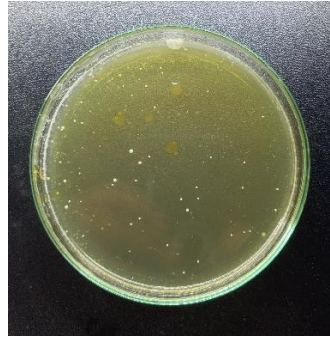
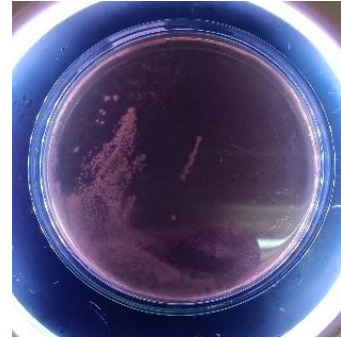
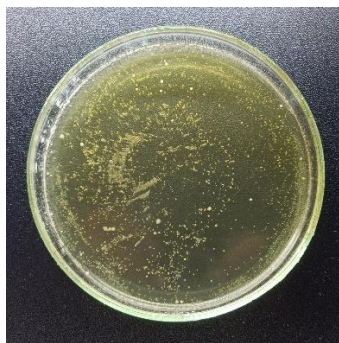
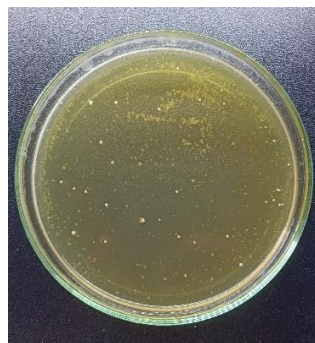
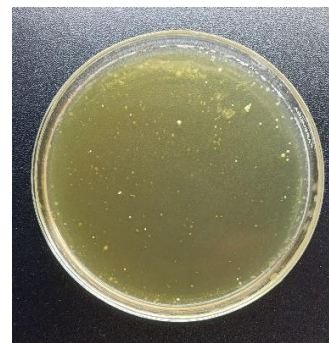
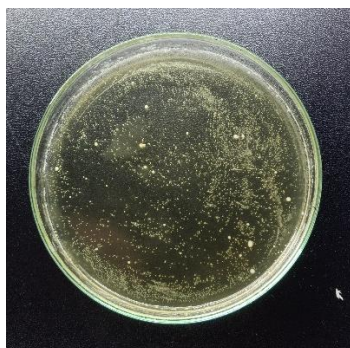
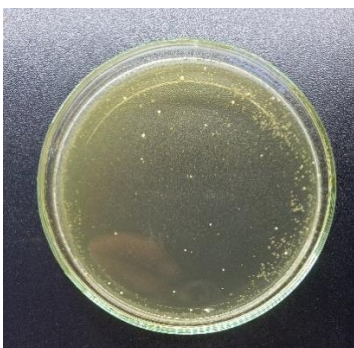
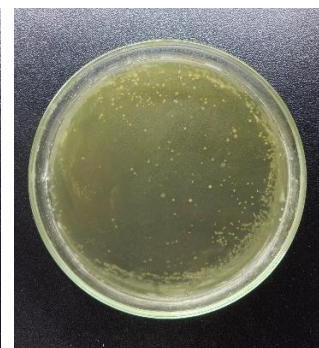
SAMPEL D

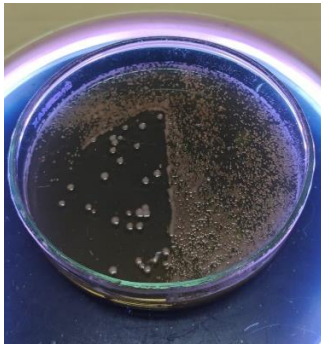
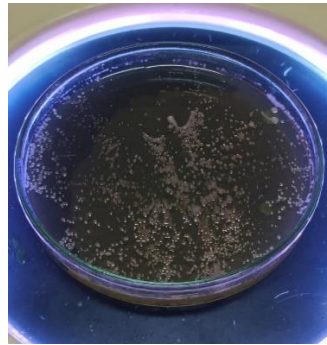
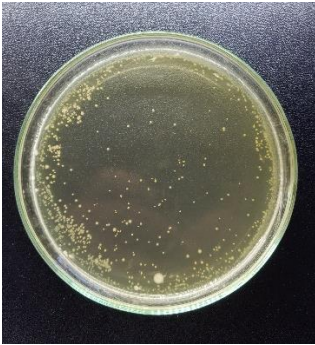
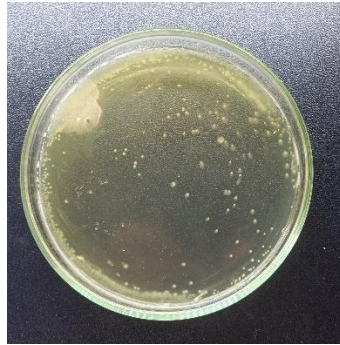


SAMPEL E

Lampiran 11. Hasil Uji Makroskopis pada *Skincare* Serum Probiotik

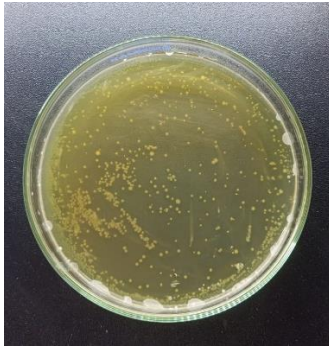
Pengulangan ke-1

Sampel A 10^{-4}  10^{-5}  10^{-6} **Sampel B** 10^{-4}  10^{-5}  10^{-6} **Sampel C** 10^{-4}  10^{-5}  10^{-6}

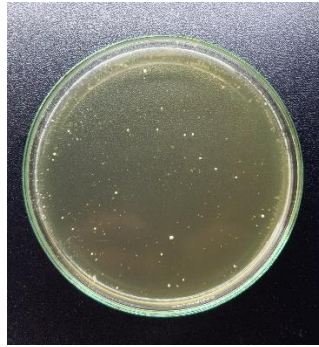
Sampel D 10^{-4}  10^{-5}  10^{-6} **Sampel E** 10^{-4}  10^{-5}  10^{-6}

Pengulangan ke-2

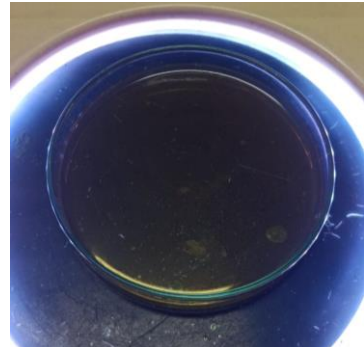
Sampel A



10^{-4}

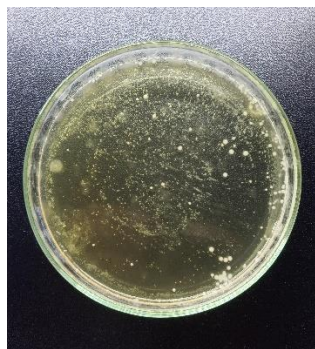


10^{-5}

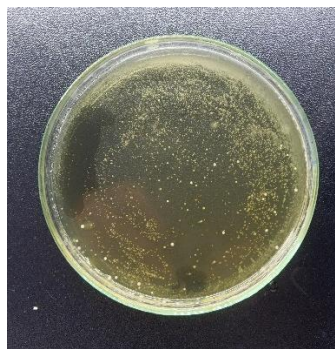


10^{-6}

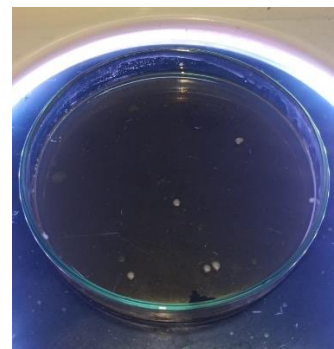
Sampel B



10^{-4}

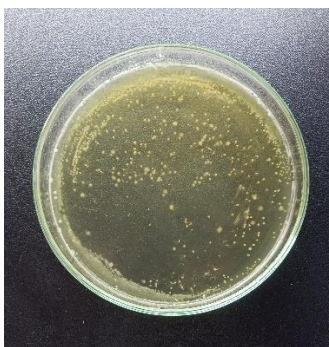


10^{-5}

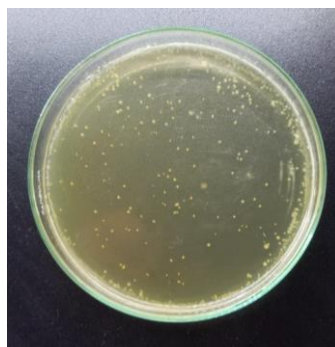


10^{-6}

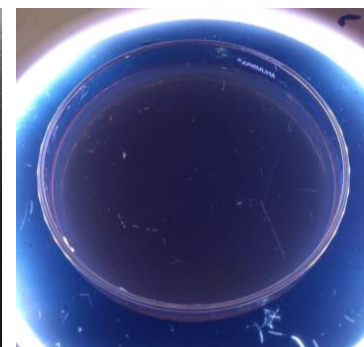
Sampel C



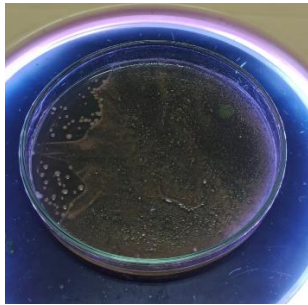
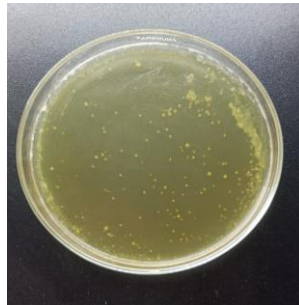
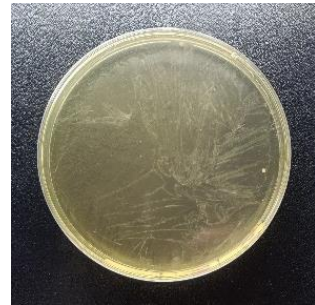
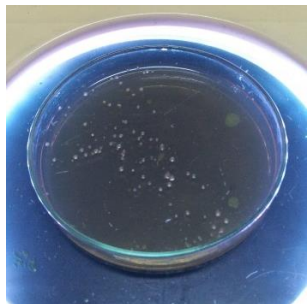
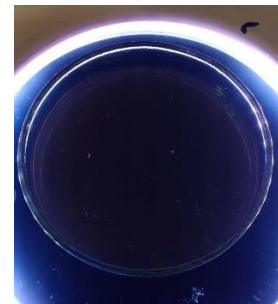
10^{-4}



10^{-5}

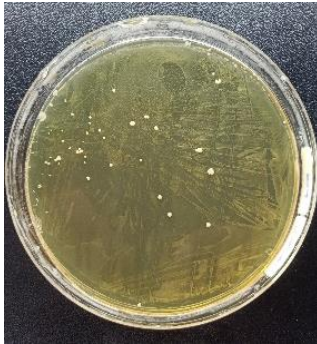


10^{-6}

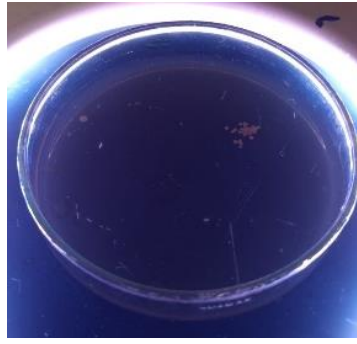
Sampel D 10^{-4}  10^{-5}  10^{-6} **Sampel E** 10^{-4}  10^{-5}  10^{-6}

Pengulangan ke-3

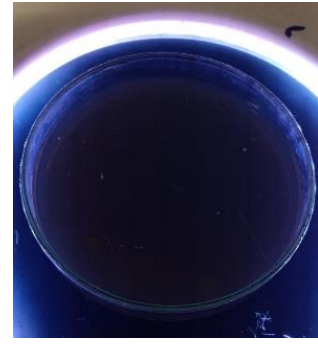
Sampel A



10^{-4}



10^{-5}

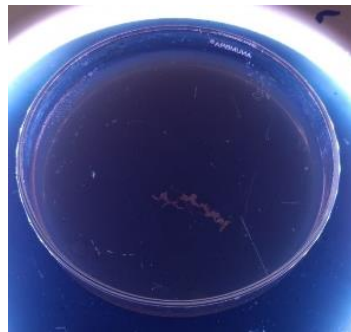


10^{-6}

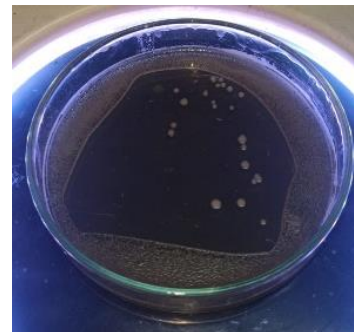
Sampel B



10^{-4}



10^{-5}

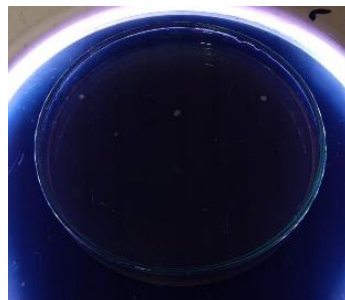


10^{-6}

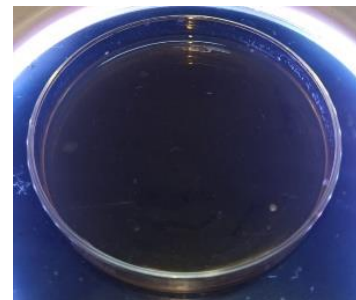
Sampel C



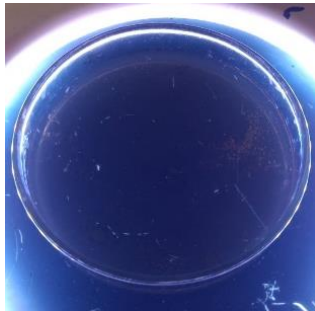
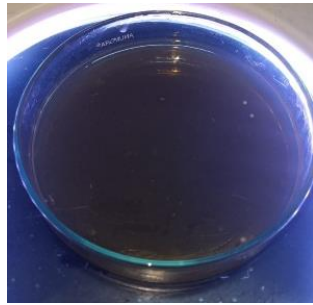
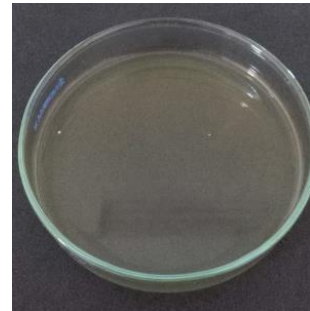
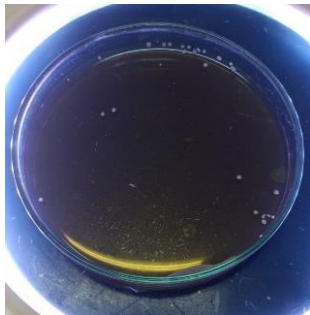
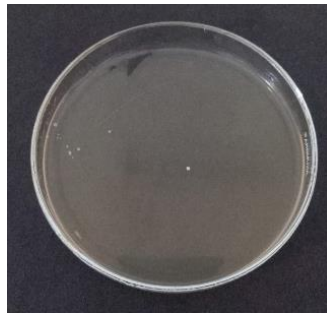
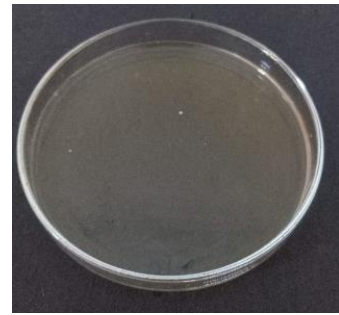
10^{-4}



10^{-5}



10^{-6}

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

Lampiran 12. Hasil Uji pH *Skincare* Serum Probiotik

SAMPEL A



SAMPEL B



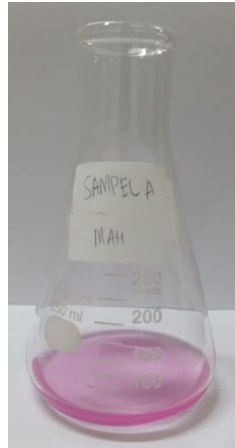
SAMPEL C



SAMPEL D



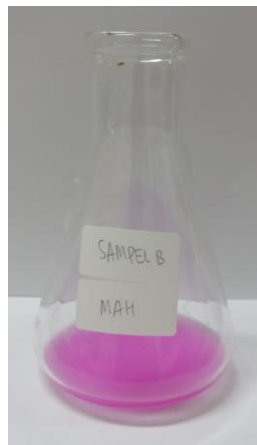
SAMPEL E

Lampiran 13. Hasil Uji Titration Asam Laktat pada *Skincare* Serum Probiotik**1. Pengulangan ke-1**

SAMPEL A



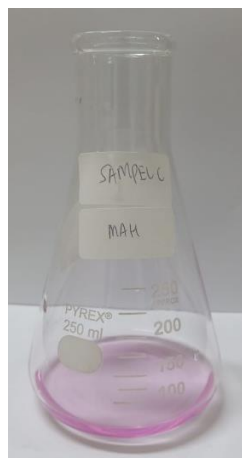
6 mL NaOH



SAMPEL B



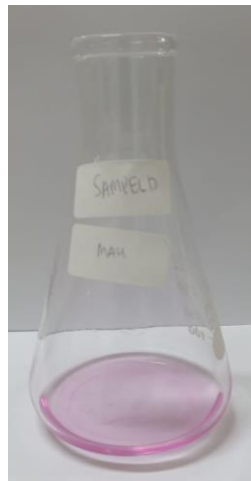
4,2 mL NaOH



SAMPEL C



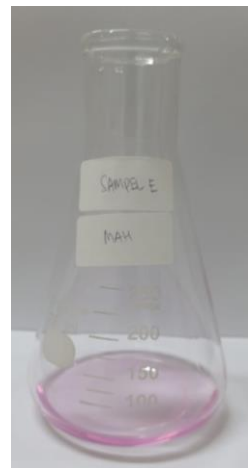
5,9 mL NaOH



SAMPED



3,7 mL NaOH



SAMPED



2,4 mL NaOH

2. Pengulangan ke-2



SAMPEL A



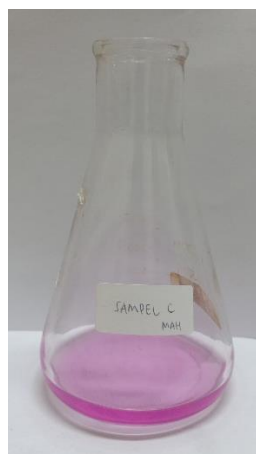
4,1 mL NaOH



SAMPEL B



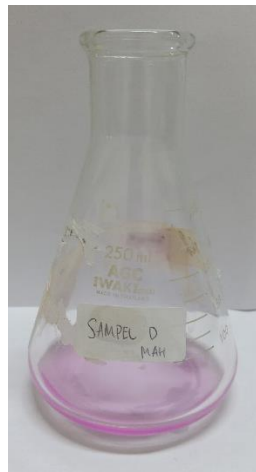
4,8 mL NaOH



SAMPEL C



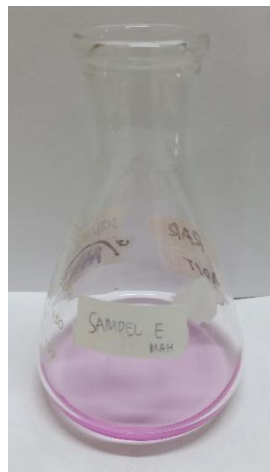
6,2 mL NaOH



SAMPel D



5,1 mL NaOH

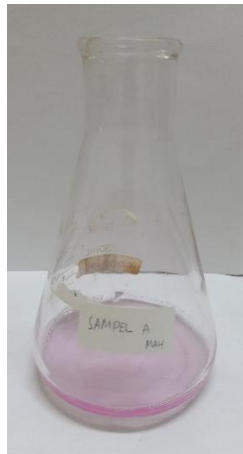


SAMPel E



4 mL NaOH

3. Pengulangan ke-3



SAMPSEL A



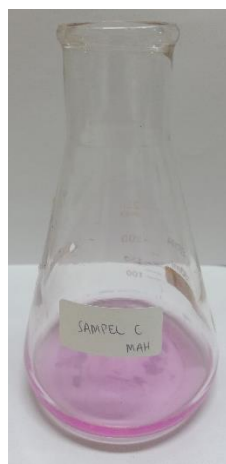
4,4 mL NaOH



SAMPSEL B



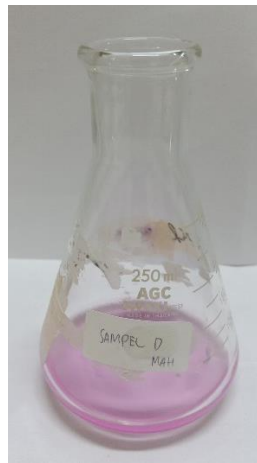
3,8 mL NaOH



SAMPSEL C



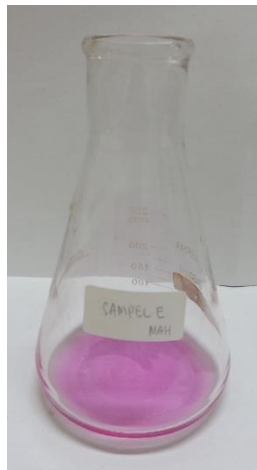
6,8 mL NaOH



SAMPOL D



6,4 mL NaOH



SAMPOL E



3,5 mL NaOH

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

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Agama / Religion	: ISLAM
Pendidikan / Education	: SD Negeri 2 Darmaraja SMP Negeri 1 Darmaraja SMA Negeri Darmaraja Universitas Bhakti Kencana