LAMPIRAN

Lampiran 1 Hasil Uji Sterilitas sediaan tetes mata insulin suhu dingin 2-8ºC

Hari ke-	Kontrol Sterilitas		Kontrol Fertilitas		Media FTM		Media SCDM	
	FTM	**SCDM**	**FTM**	**SCDM**	**F1**	**F2**	**F1**	**F2**
1	(-)	(-)	(+)	(+)	(-)	(-)	(-)	(-)
2	(-)	(-)	(+)	(+)	(-)	(-)	(-)	(-)
3	(-)	(-)	(+)	(+)	(-)	(-)	(-)	(-)
4	(-)	(-)	(+)	(+)	(-)	(-)	(-)	(-)
5	(-)	(-)	(+)	(+)	(-)	(-)	(-)	(-)
6	(-)	(-)	(+)	(+)	(-)	(-)	(-)	(-)
7	(-)	(-)	(+)	(+)	(-)	(-)	(-)	(-)
8	(-)	(-)	(+)	(+)	(-)	(-)	(-)	(-)
9	(-)	(-)	(+)	(+)	(-)	(-)	(-)	(-)
10	(-)	(-)	(+)	(+)	(-)	(-)	(-)	(-)
11	(-)	(-)	(+)	(+)	(-)	(-)	(-)	(-)
12	(-)	(-)	(+)	(+)	(-)	(-)	(-)	(-)
13	(-)	(-)	(+)	(+)	(-)	(-)	(-)	(-)
14	(-)	(-)	(+)	(+)	(-)	(-)	(-)	(-)

Keterangan: F1: Formula Insulin dan lubricant merk 1, F2 : Formula Insulin dan lubricant merk 2, (-): Tidak ada endapan atau partikel asing (jernih)

Lampiran 2 Hasil Uji pH

Formula	Hari ke-	Pengulangan			SD
		1	2	3	
Formula 1	1	6,81	6,81	6,80	6,81 ± 0,005
	3	6,96	6,96	6,94	6,95 ± 0,009
	7	7,00	7,09	7,10	7,06 ± 0,045
	14	7,25	7,25	7,29	7,26 ± 0,019
	21	7,29	7,29	7,30	7,29 ± 0,005
	28	7,52	7,53	7,50	7,52 ± 0,012
Formula 2	1	6,59	6,54	6,58	6,57 ± 0,022
	3	6,62	6,65	6,69	6,65 ± 0,029
	7	6,69	6,70	6,69	6,69 ± 0,005
	14	6,93	6,93	6,94	6,93 ± 0,005
	21	6,94	6,95	6,95	6,95 ± 0,005
	28	7,10	7,15	7,10	7,12 ± 0,024

Keterangan : Formula 1 : Insulin + lubricant merk 1, Formula 2 : Insulin + lubricant merk 2.

Lampiran 3 Tabel Hasil Pengamatan Uji Sterilitas

Hari ke -	Media yang digunakan	
	Fluid Thioglycollate Medium	Soybean Casein Digest Medium
1		
3		
7		

11		
14		

Lampiran 4 Perhitungan Tonisitas

Perhitungan tonisitas dengan menggunakan rumus tonisitas campuran

Tonisitas campuran = $\frac{(\mathbf{V1}\times\mathbf{T1})+(\mathbf{V2}\times\mathbf{T2})}{V1+V2}$

Formula 1 = V1: 2,5 mL

V2: 2,5 mL

T1: 0,6%

T2: 0,9%

Formula 2 = V1: 2,5 mL

V2: 2,5 mL

T1: 0,6%

T2: 0,9%

Tonisitas Campuran F1 = $\frac{(2{,}5x0{,}6)+(2{,}5x0{,}9)}{2{,}5+2{,}5}$

$= \frac{1{,}5+2{,}5}{5}$

= 0,75%

Tonisitas Campuran F2 = $\frac{(2{,}5x0{,}6)+(2{,}5x0{,}9)}{2{,}5+2{,}5}$

$= \frac{1{,}5+2{,}5}{5}$

= 0,75%

Lampiran 5 Perhitungan Osmolaritas

Perhitungan osmolaritas dengan menggunakan rumus Osm campuran

$$\text{Osm}_{\text{campuran}} = \frac{(Osm1\ X\ V1)+(Osm2\ X\ V2)}{V1+V2}$$

$$= \frac{(710\ X\ 2{,}5)+(310\ X\ 2{,}5)}{2{,}5+2{,}5}$$

$$= \frac{1775+775}{5}$$

$$= \frac{2550}{5}$$

= 510 mOsm/L

Lampiran 6 Surat Izin MBKM

Fakultas Farmasi
Universitas
Bhakti Kencana

Bandung, 7 Oktober 2024

Nomor : 0645/03.FF-03/UBK/X/2024
Lampiran : 1
Perihal : Pengantar MBKM Penelitian

Kepada Yth.
Direktur Utama
RS Mata Cicendo
di
Tempat

Dengan Hormat,

Dalam rangka mengikuti program dan kebijakan Kemendikbud, Prodi Sarjana Farmasi-Fakultas Farmasi Universitas Bhakti Kencana menyelenggarakan program Merdeka Belajar-Kampus Merdeka (MBKM) mandiri pada T.A 2024/2025 Gasal. Kegitan MBKM ini dilakukan dengan tujuan untuk meningkatkan kompetensi lulusan, baik soft skills maupun hard skills, agar lebih siap dan relevan dengan kebutuhan zaman dan dunia kerja. Salah satu kanal MBKM yang dibuka adalah kanal Penelitian.

Sehubungan dengan hal tersebut, kami mohon bantuannya untuk dapat memberikan tempat bagi mahasiswa kami untuk dapat melaksanakan Penelitian periode **"7 Oktober 2024 - 31 Januari 2025"** di lembaga yang Bapak/Ibu pimpin. Untuk nama calon peserta MBKM Penelitian kami cantumkan dalam lampiran

Demikian permohonan ini kami ajukan, atas perhatian dan kerjasamanya kami ucapkan terima kasih.

Mengetahui,
Dekan Fakultas Farmasi

(Dr. Apt. Agus Sulaeman, M.Si.)
NIK. 02014010070

Ka. Prodi S1 Farmasi

(apt. Lia Marliani, M.Si.)
NIK.

Narahubung : Diki Zaelani (087825021940)

Jl. Soekarno Hatta No 754 Bandung
022 7830 760, 022 7830 768
bku.ac.id contact@bku.ac.id

Lampiran 7 Surat Izin Penelitian

Fakultas Farmasi
Universitas
Bhakti Kencana

Jl. Soekarno Hatta No 754 Bandung
022 7830 760, 022 7830 768
bku.ac.id contact@bku.ac.id

Bandung, 09 Mei 2025

Nomor : 0461/03.S1-FF/UBK/V/2025
Lampiran : -
Perihal : Permohonan Izin Penelitian

Kepada Yth.
Bapak/Ibu Direktur RS Mata Cicendo
Di Tempat

Dengan Hormat,
Sehubungan dengan akan diselenggarakannya Penelitian Tugas Akhir bagi mahasiswa Program Studi S1, Fakultas Farmasi, Universitas Bhakti Kencana, T.A 2024/2025, dengan ini kami mengajukan Permohonan Izin Penelitian di tempat yang Bapak/Ibu pimpin.

Adapun nama mahasiswa tersebut adalah :

Nama	:	Qurotul Ayuni
NPM	:	211FF03063
No. Telp/Hp	:	083147563444
Judul Penelitian	:	Uji Sterilitas Kombinasi Obat Tetes Mata dengan Lubricant
Dosen Pembimbing Utama	:	apt. Yanni Dhiani Mardhiani, M.BSc
Dosen Pembimbing Serta	:	apt Pujani Utami, M.Farm

Besar harapan kami, kiranya Bapak/Ibu berkenan mengijinkan permohonan ini. Atas perhatian dan kerjasamanya kami ucapkan terima kasih.

Mengetahui,
Dekan Fakultas Farmasi
Universitas Bhakti Kencana

Dr. apt.Agus Sulaeman, M.Si
NIK. 02014010070

Ketua Prodi Strata 1 (S1) Farmasi
Universitas Bhakti Kencana

apt. Lia Marliani, M.Si.,
NIK.02005010039

Lampiran 8 Surat Izin Penelitian PMN RS Cicendo

Kemenkes
RS Mata Cicendo

Kementerian Kesehatan
Direktorat Jenderal Kesehatan Lanjutan
Rumah Sakit Mata Cicendo Bandung
Jalan Cicendo No. 4, Sumur Bandung
Bandung 40117
(022) 4231280/81
rsmatacicendo.go.id

Nomor : DP.04.03/D.XXIV.2/10117/2025 — 1 Juli 2025
Hal : Izin Pengambilan Data Penelitian

Yang terhormat,
Dekan Fakultas Farmasi
Universitas Bhakti Kencana
Jl. Soekarna Hatta No. 754
Bandung

Berkenaan dengan surat Saudara Nomor: 167/03.S1-FF/UBK/II/2025 tanggal 10 Februari 2025, perihal Permohonan Izin Penelitian atas nama mahasiswa:

No	Nama	NPM	Program Studi
1	Qurotul Ayuni	211FF03063	S-1 Farmasi

Dengan ini kami sampaikan bahwa kami mengizinkan mahasiswa/i melakukan Pengambilan Data Penelitian di Rumah Sakit Mata Cicendo Bandung, dengan judul:

"Uji Sterilitas Kombinasi Obat Insulin dengan *Lubricant* pada Sediaan Obat Tetes Mata"

Perlu disampaikan bahwa mahasiswa/i yang akan melaksanakan Penelitian dikenakan biaya sebesar Rp300.000 (Tiga Ratus Ribu Rupiah) untuk jenjang pendidikan S-1 Umum. **Adapun pembayaran dapat dilakukan secara tunai atau ditransfer ke Nomor Rekening Bank Mandiri 1310005032117 atas nama RPL 022 RS Mata Cicendo.**

Sesuai dengan peraturan di RS Mata Cicendo, maka kami akan menugaskan **pembimbing internal atas nama apt. Pujani Utami, S.Farm dari Instalasi Farmasi** untuk mendukung penelitian tersebut dan dapat terlibat dalam publikasi artikel. Selanjutnya untuk teknis pelaksanaan, dapat menghubungi Tim Kerja Penelitian pada jam kerja (Senin – Jumat pukul 07.30 – 15.30).

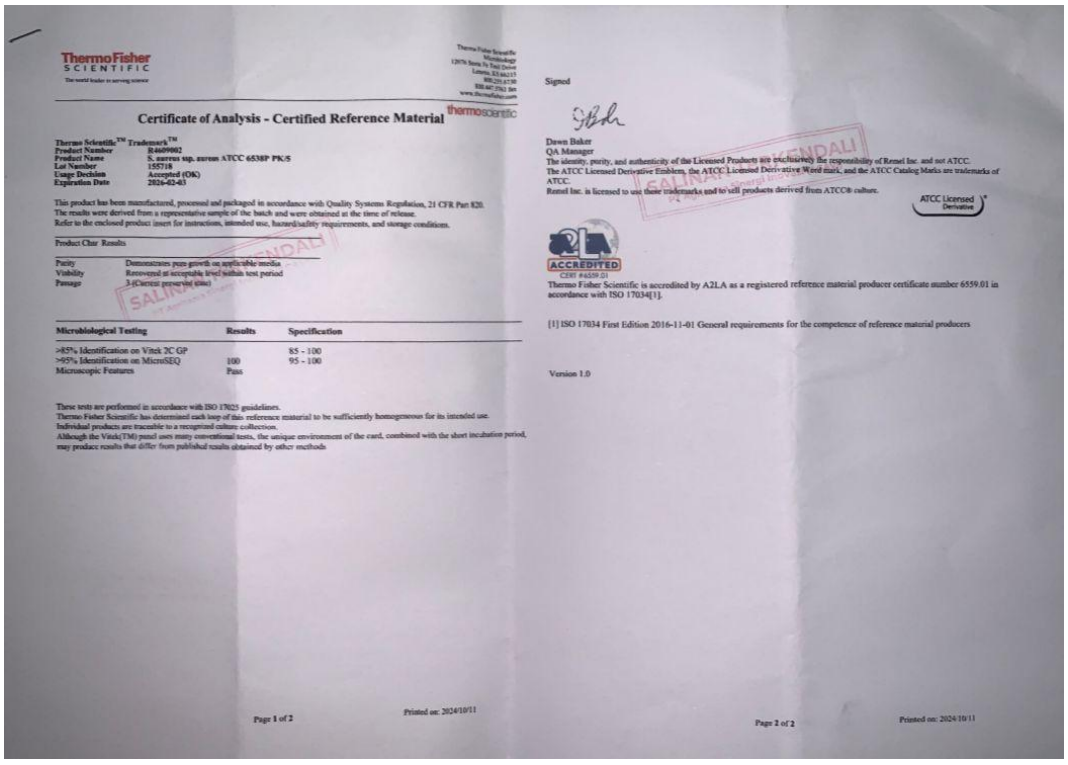
Demikian hal ini kami sampaikan. Atas perhatian dan kerjasama Saudara, kami ucapkan terima kasih.

a.n. Direktur Utama
Direktur SDM, Pendidikan dan Penelitian RS Mata Cicendo Bandung

dr. Elfa Ali Idrus, Sp.M
NIP. 197902042006052001

Tembusan:
1. Kepala Instalasi Farmasi RS Mata Cicendo

Lampiran 9 COA bakteri S. Aureus



Thermo Fisher SCIENTIFIC

thermoscientific

Certificate of Analysis - Certified Reference Material

Thermo Scientific™ Trademark™	
Product Number	R40090Z
Product Name	S. aureus ssp. aureus ATCC 6538P PK/5
Lot Number	155718
Usage Decision	Accepted (OK)
Expiration Date	2026-02-03

This product has been manufactured, processed and packaged in accordance with Quality Systems Regulation, 21 CFR Part 820.
The results were derived from a representative sample of the batch and were obtained at the time of release.
Refer to the enclosed product insert for instructions, intended use, hazard/safety requirements, and storage conditions.

Product Char	Results
Purity	Demonstrates pure growth on applicable media
Viability	Recovered at acceptable level within test period
Passage	3 (Current preserved state)

Microbiological Testing	Results	Specification
>85% Identification on Vitek 2C GP		85 - 100
>95% Identification on MicroSEQ	100	95 - 100
Microscopic Features	Pass	

These tests are performed in accordance with ISO 17025 guidelines.
Thermo Fisher Scientific has determined each lot of this reference material to be sufficiently homogeneous for its intended use.
Individual products are traceable to a recognized culture collection.
Although the Vitek(TM) panel uses many conventional tests, the unique environment of the card, combined with the short incubation period, may produce results that differ from published results obtained by other methods

Page 1 of 2

Printed on: 2024/10/11

Signed

Dawn Baker
QA Manager
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Remel Inc. is licensed to use these trademarks and to sell products derived from ATCC® culture.

ATCC Licensed Derivative

ACCREDITED
CERT #4559.01

Thermo Fisher Scientific is accredited by A2LA as a registered reference material producer certificate number 6559.01 in accordance with ISO 17034[1].

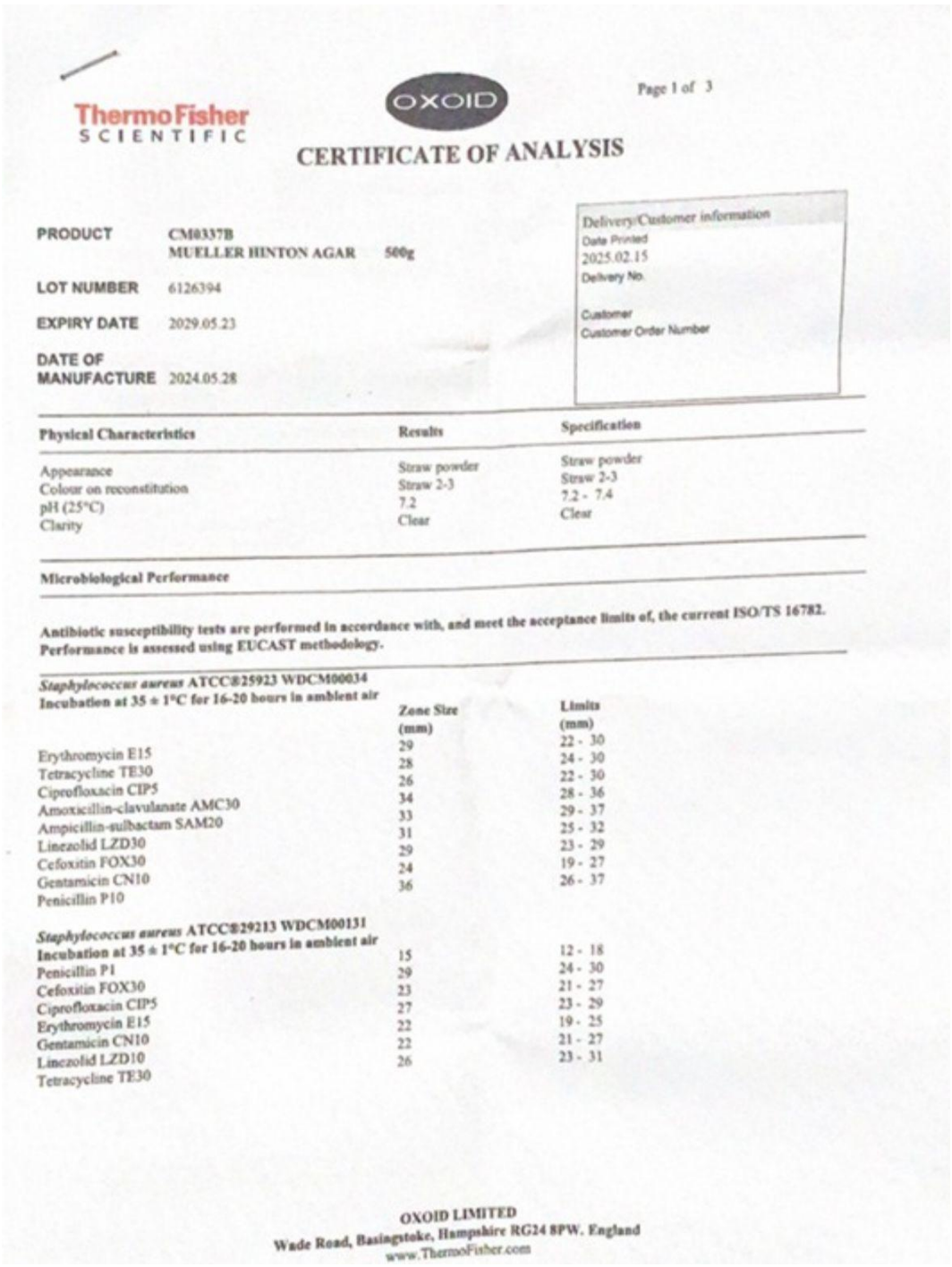
[1] ISO 17034 First Edition 2016-11-01 General requirements for the competence of reference material producers

Version 1.0

Page 2 of 2

Printed on: 2024/10/11

Lampiran 10 COA Media MHA



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Page 1 of 3

CERTIFICATE OF ANALYSIS

PRODUCT	**CM0337B**	
	MUELLER HINTON AGAR	**500g**
LOT NUMBER	6126394	
EXPIRY DATE	2029.05.23	
DATE OF MANUFACTURE	2024.05.28	

Delivery/Customer information
Date Printed
2025.02.15
Delivery No.
Customer
Customer Order Number

Physical Characteristics	**Results**	**Specification**
Appearance	Straw powder	Straw powder
Colour on reconstitution	Straw 2-3	Straw 2-3
pH (25°C)	7.2	7.2 - 7.4
Clarity	Clear	Clear

Microbiological Performance

Antibiotic susceptibility tests are performed in accordance with, and meet the acceptance limits of, the current ISO/TS 16782. Performance is assessed using EUCAST methodology.

***Staphylococcus aureus* ATCC®25923 WDCM00034**
Incubation at 35 ± 1°C for 16-20 hours in ambient air

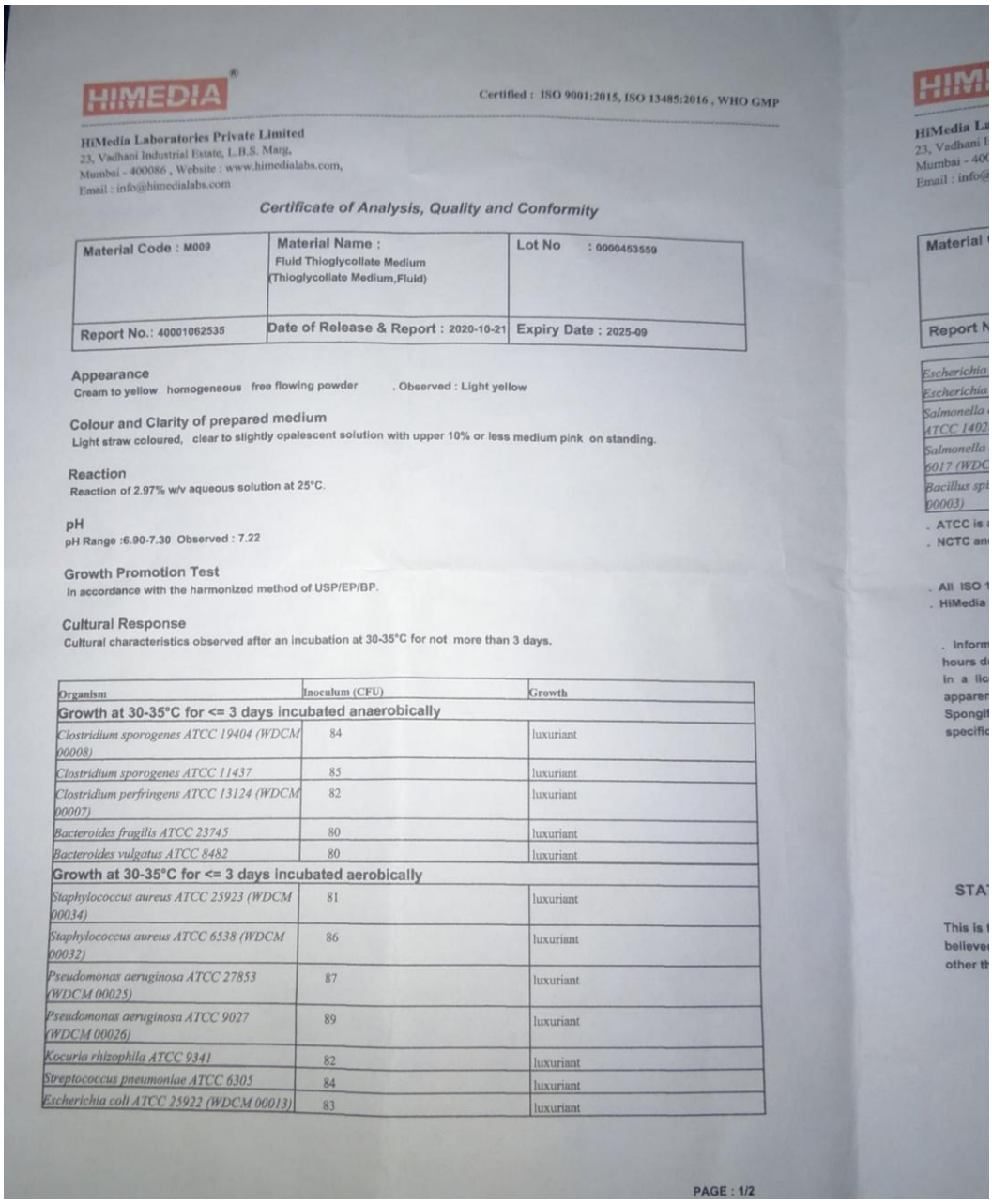
	Zone Size (mm)	**Limits (mm)**
Erythromycin E15	29	22 - 30
Tetracycline TE30	28	24 - 30
Ciprofloxacin CIP5	26	22 - 30
Amoxicillin-clavulanate AMC30	34	28 - 36
Ampicillin-sulbactam SAM20	33	29 - 37
Linezolid LZD30	31	25 - 32
Cefoxitin FOX30	29	23 - 29
Gentamicin CN10	24	19 - 27
Penicillin P10	36	26 - 37

***Staphylococcus aureus* ATCC®29213 WDCM00131**
Incubation at 35 ± 1°C for 16-20 hours in ambient air

Penicillin P1	15	12 - 18
Cefoxitin FOX30	29	24 - 30
Ciprofloxacin CIP5	23	21 - 27
Erythromycin E15	27	23 - 29
Gentamicin CN10	22	19 - 25
Linezolid LZD10	22	21 - 27
Tetracycline TE30	26	23 - 31

OXOID LIMITED
Wade Road, Basingstoke, Hampshire RG24 8PW, England
www.ThermoFisher.com

Lampiran 11 COA Media FTM



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HiMedia Laboratories Private Limited
23, Vadhani Industrial Estate, L.B.S. Marg,
Mumbai - 400086 , Website : www.himedialabs.com,
Email : info@himedialabs.com

Certificate of Analysis, Quality and Conformity

Material Code : M009	Material Name : Fluid Thioglycollate Medium (Thioglycollate Medium,Fluid)	Lot No : 0000453559
Report No.: 40001062535	Date of Release & Report : 2020-10-21	Expiry Date : 2025-09

Appearance
Cream to yellow homogeneous free flowing powder . Observed : Light yellow

Colour and Clarity of prepared medium
Light straw coloured, clear to slightly opalescent solution with upper 10% or less medium pink on standing.

Reaction
Reaction of 2.97% w/v aqueous solution at 25°C.

pH
pH Range :6.90-7.30 Observed : 7.22

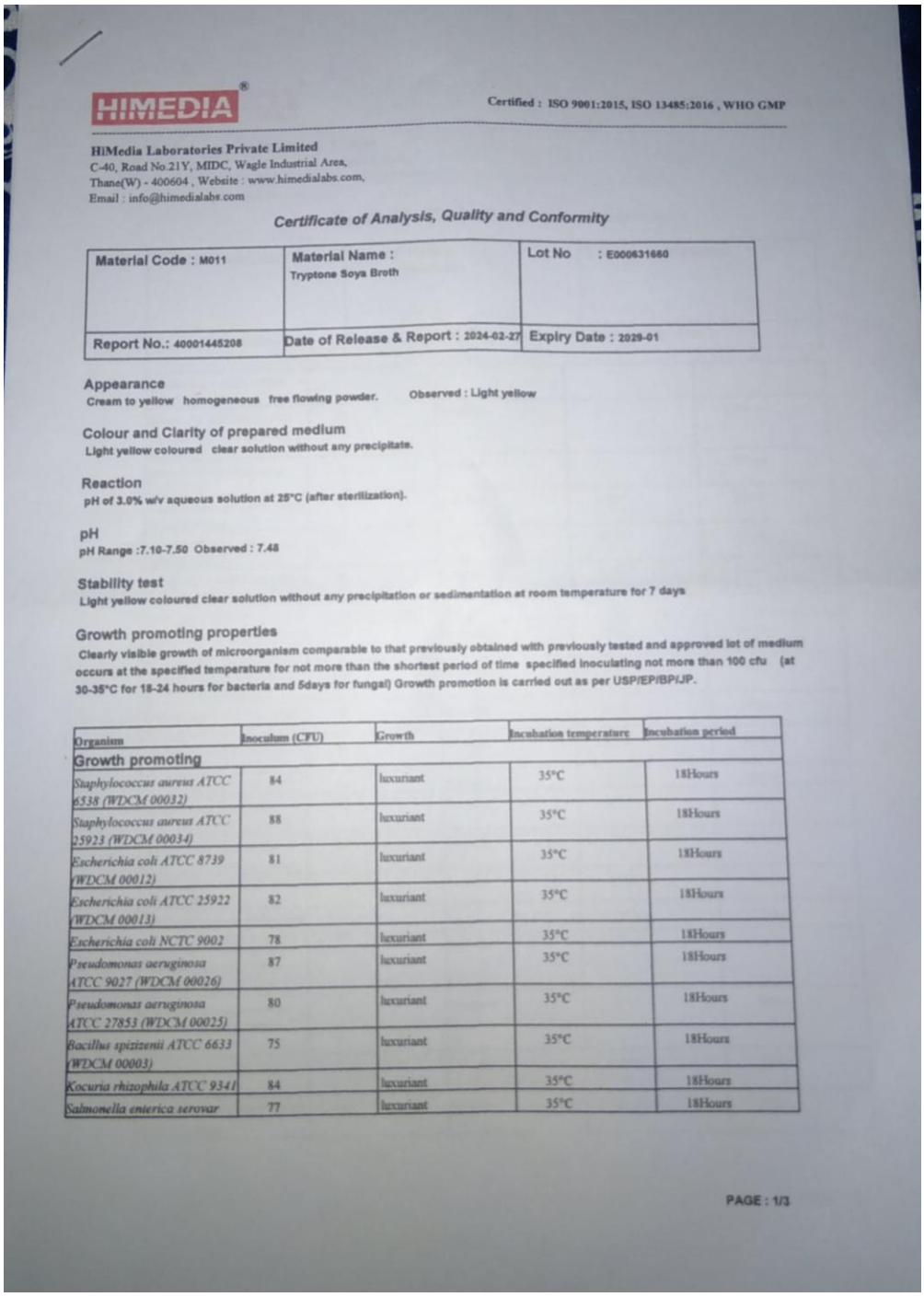
Growth Promotion Test
In accordance with the harmonized method of USP/EP/BP.

Cultural Response
Cultural characteristics observed after an incubation at 30-35°C for not more than 3 days.

Organism	Inoculum (CFU)	Growth
Growth at 30-35°C for <= 3 days incubated anaerobically		
Clostridium sporogenes ATCC 19404 (WDCM 00008)	84	luxuriant
Clostridium sporogenes ATCC 11437	85	luxuriant
Clostridium perfringens ATCC 13124 (WDCM 00007)	82	luxuriant
Bacteroides fragilis ATCC 23745	80	luxuriant
Bacteroides vulgatus ATCC 8482	80	luxuriant
Growth at 30-35°C for <= 3 days incubated aerobically		
Staphylococcus aureus ATCC 25923 (WDCM 00034)	81	luxuriant
Staphylococcus aureus ATCC 6538 (WDCM 00032)	86	luxuriant
Pseudomonas aeruginosa ATCC 27853 (WDCM 00025)	87	luxuriant
Pseudomonas aeruginosa ATCC 9027 (WDCM 00026)	89	luxuriant
Kocuria rhizophila ATCC 9341	82	luxuriant
Streptococcus pneumoniae ATCC 6305	84	luxuriant
Escherichia coli ATCC 25922 (WDCM 00013)	83	luxuriant

PAGE : 1/2

Lampiran 12 COA Media SCDM



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Thane(W) - 400604 , Website : www.himedialabs.com,
Email : info@himedialabs.com

Certificate of Analysis, Quality and Conformity

Material Code : M011	Material Name : Tryptone Soya Broth	Lot No : E000631660
Report No.: 40001445208	Date of Release & Report : 2024-02-27	Expiry Date : 2029-01

Appearance
Cream to yellow homogeneous free flowing powder. Observed : Light yellow

Colour and Clarity of prepared medium
Light yellow coloured clear solution without any precipitate.

Reaction
pH of 3.0% w/v aqueous solution at 25°C (after sterilization).

pH
pH Range :7.10-7.50 Observed : 7.48

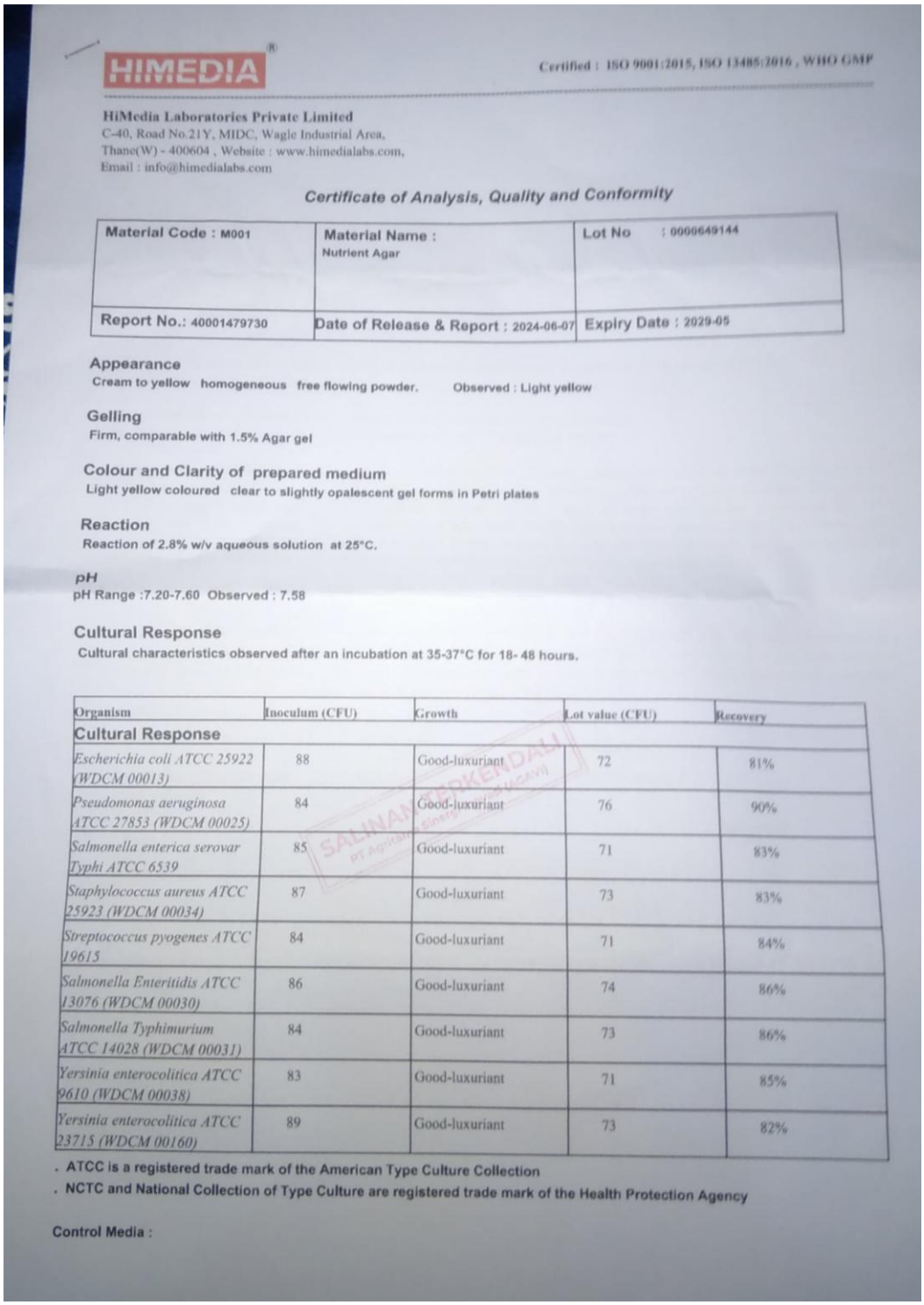
Stability test
Light yellow coloured clear solution without any precipitation or sedimentation at room temperature for 7 days

Growth promoting properties
Clearly visible growth of microorganism comparable to that previously obtained with previously tested and approved lot of medium occurs at the specified temperature for not more than the shortest period of time specified inoculating not more than 100 cfu (at 30-35°C for 18-24 hours for bacteria and 5days for fungal) Growth promotion is carried out as per USP/EP/BP/JP.

Organism	Inoculum (CFU)	Growth	Incubation temperature	Incubation period
Growth promoting				
Staphylococcus aureus ATCC 6538 (WDCM 00032)	84	luxuriant	35°C	18Hours
Staphylococcus aureus ATCC 25923 (WDCM 00034)	88	luxuriant	35°C	18Hours
Escherichia coli ATCC 8739 (WDCM 00012)	81	luxuriant	35°C	18Hours
Escherichia coli ATCC 25922 (WDCM 00013)	82	luxuriant	35°C	18Hours
Escherichia coli NCTC 9002	78	luxuriant	35°C	18Hours
Pseudomonas aeruginosa ATCC 9027 (WDCM 00026)	87	luxuriant	35°C	18Hours
Pseudomonas aeruginosa ATCC 27853 (WDCM 00025)	80	luxuriant	35°C	18Hours
Bacillus spizizenii ATCC 6633 (WDCM 00003)	75	luxuriant	35°C	18Hours
Kocuria rhizophila ATCC 9341	84	luxuriant	35°C	18Hours
Salmonella enterica serovar	77	luxuriant	35°C	18Hours

PAGE : 1/3

Lampiran 13 COA Media NA



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Email : info@himedialabs.com

Certificate of Analysis, Quality and Conformity

Material Code : M001	**Material Name :** Nutrient Agar	**Lot No** : 0000649144
Report No.: 40001479730	**Date of Release & Report :** 2024-06-07	**Expiry Date :** 2029-05

Appearance
Cream to yellow homogeneous free flowing powder. Observed : Light yellow

Gelling
Firm, comparable with 1.5% Agar gel

Colour and Clarity of prepared medium
Light yellow coloured clear to slightly opalescent gel forms in Petri plates

Reaction
Reaction of 2.8% w/v aqueous solution at 25°C.

pH
pH Range :7.20-7.60 Observed : 7.58

Cultural Response
Cultural characteristics observed after an incubation at 35-37°C for 18- 48 hours.

Organism	Inoculum (CFU)	Growth	Lot value (CFU)	Recovery
Cultural Response				
Escherichia coli ATCC 25922 (WDCM 00013)	88	Good-luxuriant	72	81%
Pseudomonas aeruginosa ATCC 27853 (WDCM 00025)	84	Good-luxuriant	76	90%
Salmonella enterica serovar Typhi ATCC 6539	85	Good-luxuriant	71	83%
Staphylococcus aureus ATCC 25923 (WDCM 00034)	87	Good-luxuriant	73	83%
Streptococcus pyogenes ATCC 19615	84	Good-luxuriant	71	84%
Salmonella Enteritidis ATCC 13076 (WDCM 00030)	86	Good-luxuriant	74	86%
Salmonella Typhimurium ATCC 14028 (WDCM 00031)	84	Good-luxuriant	73	86%
Yersinia enterocolitica ATCC 9610 (WDCM 00038)	83	Good-luxuriant	71	85%
Yersinia enterocolitica ATCC 23715 (WDCM 00160)	89	Good-luxuriant	73	82%

. ATCC is a registered trade mark of the American Type Culture Collection
. NCTC and National Collection of Type Culture are registered trade mark of the Health Protection Agency

Control Media :

Lampiran 14 COA Bakteri Pseudomonas aeruginosa

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: P. aeruginosa ATCC 15442 PK/5
Lot Number: 480321

Product Number: R4607210
Expiration Date: 2023-10-19
(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.

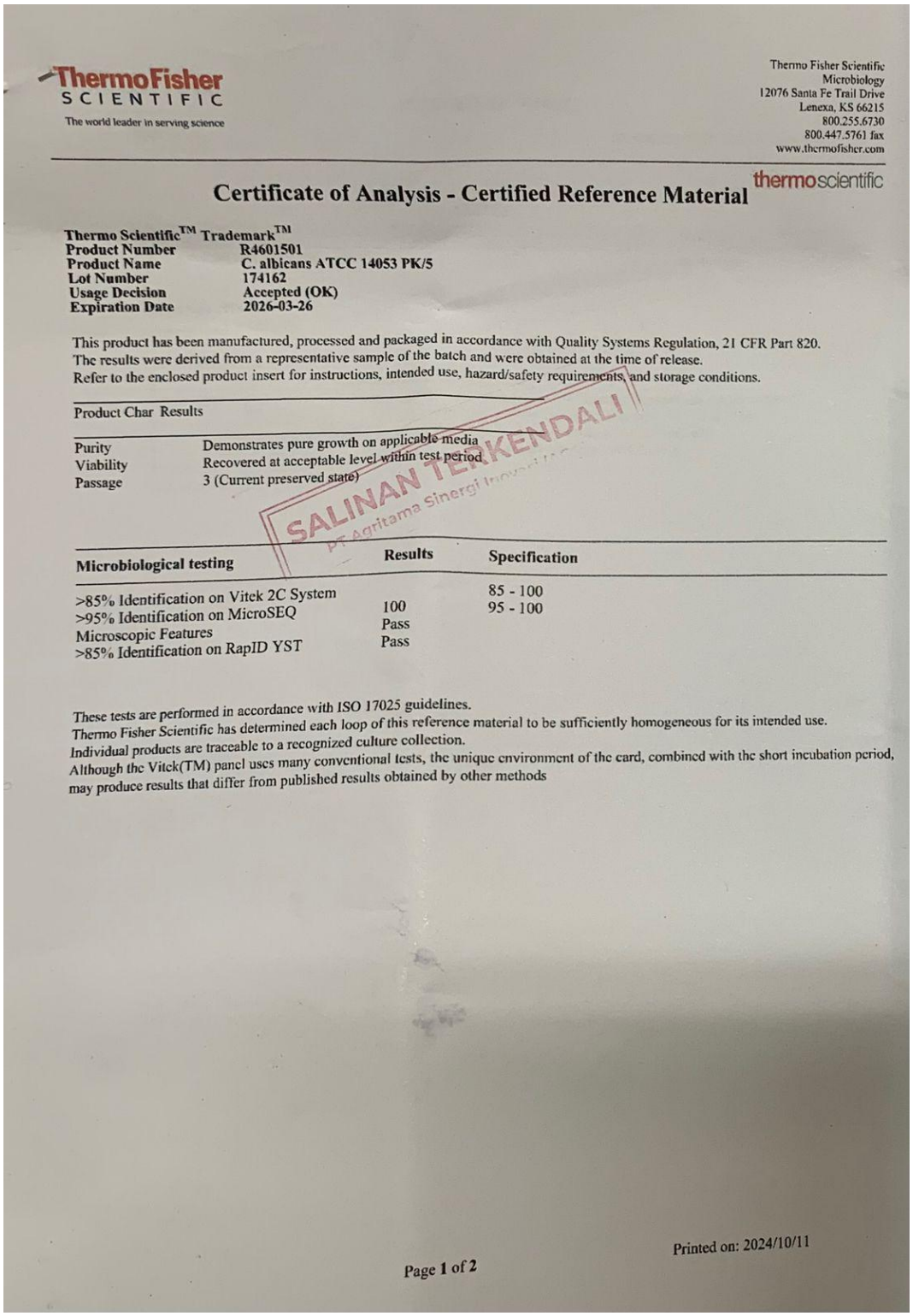
Characterization:
Organism exhibits characteristic biochemical, enzymatic, genotypical and/or biochemical reactions. Automated and/or conventional testing was performed and results were within established limits. Antimicrobial testing performed where applicable. Results within expected ranges.

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

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

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

Lampiran 15 COA Bakteri Candida albicans



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Certificate of Analysis - Certified Reference Material

Thermo Scientific™ Trademark™
Product Number R4601501
Product Name C. albicans ATCC 14053 PK/5
Lot Number 174162
Usage Decision Accepted (OK)
Expiration Date 2026-03-26

This product has been manufactured, processed and packaged in accordance with Quality Systems Regulation, 21 CFR Part 820.
The results were derived from a representative sample of the batch and were obtained at the time of release.
Refer to the enclosed product insert for instructions, intended use, hazard/safety requirements, and storage conditions.

Product Char	Results
Purity	Demonstrates pure growth on applicable media
Viability	Recovered at acceptable level within test period
Passage	3 (Current preserved state)

Microbiological testing	Results	Specification
>85% Identification on Vitek 2C System	100	85 - 100
>95% Identification on MicroSEQ	Pass	95 - 100
Microscopic Features	Pass	
>85% Identification on RapID YST		

These tests are performed in accordance with ISO 17025 guidelines.
Thermo Fisher Scientific has determined each loop of this reference material to be sufficiently homogeneous for its intended use.
Individual products are traceable to a recognized culture collection.
Although the Vitek(TM) panel uses many conventional tests, the unique environment of the card, combined with the short incubation period, may produce results that differ from published results obtained by other methods

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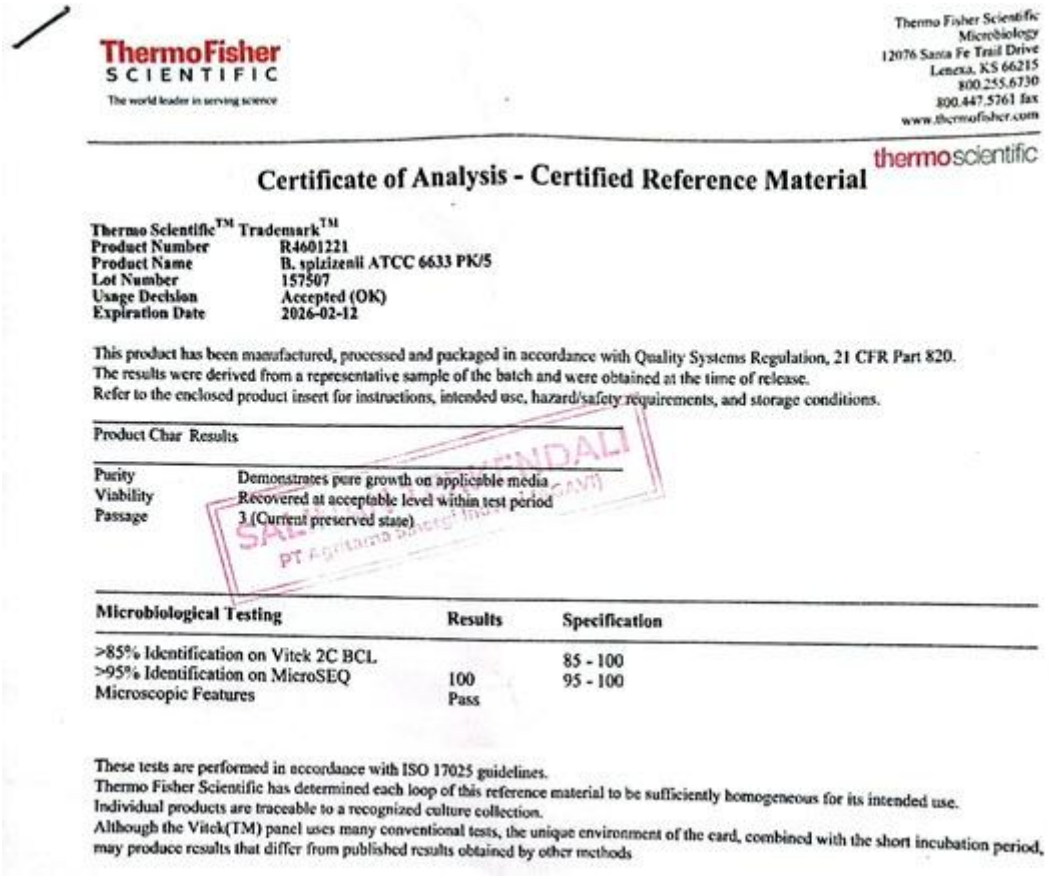
Lampiran 16 COA Bakteri Bacillus subtilis



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thermoscientific

Certificate of Analysis - Certified Reference Material

Thermo Scientific™ Trademark™	
Product Number	**R4601221**
Product Name	**B. splizizenii ATCC 6633 PK/5**
Lot Number	**157507**
Usage Decision	**Accepted (OK)**
Expiration Date	**2026-02-12**

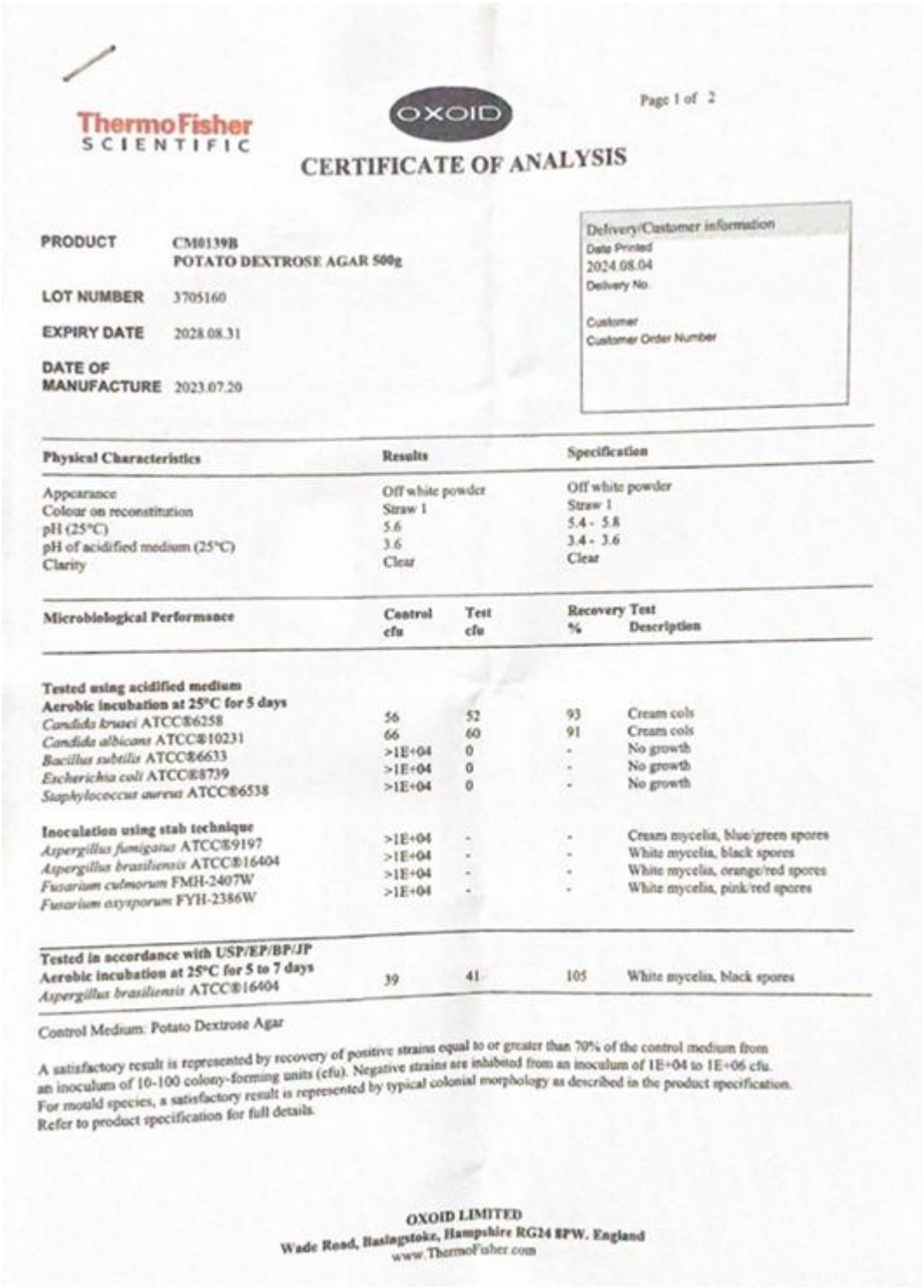
This product has been manufactured, processed and packaged in accordance with Quality Systems Regulation, 21 CFR Part 820.
The results were derived from a representative sample of the batch and were obtained at the time of release.
Refer to the enclosed product insert for instructions, intended use, hazard/safety requirements, and storage conditions.

Product Char	Results
Purity	Demonstrates pure growth on applicable media
Viability	Recovered at acceptable level within test period
Passage	3 (Current preserved state)

Microbiological Testing	Results	Specification
>85% Identification on Vitek 2C BCL		85 - 100
>95% Identification on MicroSEQ	100	95 - 100
Microscopic Features	Pass	

These tests are performed in accordance with ISO 17025 guidelines.
Thermo Fisher Scientific has determined each loop of this reference material to be sufficiently homogeneous for its intended use.
Individual products are traceable to a recognized culture collection.
Although the Vitek(TM) panel uses many conventional tests, the unique environment of the card, combined with the short incubation period, may produce results that differ from published results obtained by other methods

Lampiran 17 COA Media PDA



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OXOID

CERTIFICATE OF ANALYSIS

PRODUCT CM0139B
POTATO DEXTROSE AGAR 500g

LOT NUMBER 3705160

EXPIRY DATE 2028.08.31

DATE OF MANUFACTURE 2023.07.20

Delivery/Customer information
Date Printed
2024.08.04
Delivery No.

Customer
Customer Order Number

Physical Characteristics	Results	Specification
Appearance	Off white powder	Off white powder
Colour on reconstitution	Straw 1	Straw 1
pH (25°C)	5.6	5.4 - 5.8
pH of acidified medium (25°C)	3.6	3.4 - 3.6
Clarity	Clear	Clear

Microbiological Performance	Control cfu	Test cfu	Recovery Test %	Description
Tested using acidified medium				
Aerobic incubation at 25°C for 5 days				
Candida krusei ATCC®6258	56	52	93	Cream cols
Candida albicans ATCC®10231	66	60	91	Cream cols
Bacillus subtilis ATCC®6633	>1E+04	0	-	No growth
Escherichia coli ATCC®8739	>1E+04	0	-	No growth
Staphylococcus aureus ATCC®6538	>1E+04	0	-	No growth
Inoculation using stab technique				
Aspergillus fumigatus ATCC®9197	>1E+04	-	-	Cream mycelia, blue/green spores
Aspergillus brasiliensis ATCC®16404	>1E+04	-	-	White mycelia, black spores
Fusarium culmorum FMH-2407W	>1E+04	-	-	White mycelia, orange/red spores
Fusarium oxysporum FYH-2386W	>1E+04	-	-	White mycelia, pink/red spores
Tested in accordance with USP/EP/BP/JP				
Aerobic incubation at 25°C for 5 to 7 days				
Aspergillus brasiliensis ATCC®16404	39	41	105	White mycelia, black spores

Control Medium: Potato Dextrose Agar

A satisfactory result is represented by recovery of positive strains equal to or greater than 70% of the control medium from an inoculum of 10-100 colony-forming units (cfu). Negative strains are inhibited from an inoculum of 1E+04 to 1E+06 cfu. For mould species, a satisfactory result is represented by typical colonial morphology as described in the product specification. Refer to product specification for full details.

OXOID LIMITED
Wade Road, Basingstoke, Hampshire RG24 8PW, England
www.ThermoFisher.com

Lampiran 18 Hasil pengujian data SPSS

Formula 1

Test of Homogeneity of Variances

pH

Levene Statistic	df1	df2	Sig.
7.539	5	12	.002

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	hari	Statistic	df	Sig.	Statistic	df	Sig.
pH	hari ke 1	.385	3	.	.750	3	.000
	hari ke 3	.385	3	.	.750	3	.000
	hari ke 7	.353	3	.	.824	3	.174
	hari ke 14	.385	3	.	.750	3	.000
	hari ke 21	.385	3	.	.750	3	.000
	hari ke 28	.253	3	.	.964	3	.637

a. Lilliefors Significance Correction

Ranks

	hari	N	Mean Rank
pH	hari ke 1	3	2.00
	hari ke 3	3	5.00
	hari ke 7	3	8.00
	hari ke 14	3	11.33
	hari ke 21	3	13.67
	hari ke 28	3	17.00
	Total	18	

Test Statistics[a,b]

	pH
Chi-Square	16.511
df	5
Asymp. Sig.	.006

a. Kruskal Wallis Test

b. Grouping Variable: hari

Formula 2

Tests of Normality

		Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	hari	Statistic	df	Sig.	Statistic	df	Sig.
pH	hari ke 1	.314	3	.	.893	3	.363
	hari ke 3	.204	3	.	.993	3	.843
	hari ke 7	.385	3	.	.750	3	.000
	hari ke 14	.385	3	.	.750	3	.000
	hari ke 21	.385	3	.	.750	3	.000
	hari ke 28	.385	3	.	.750	3	.000

a. Lilliefors Significance Correction

Test of Homogeneity of Variances

pH

Levene Statistic	df1	df2	Sig.
3.222	5	12	.045

Kruskal-Wallis Test

Ranks

	hari	N	Mean Rank
pH	hari ke 1	3	2.00
	hari ke 3	3	5.33
	hari ke 7	3	7.67
	hari ke 14	3	11.17
	hari ke 21	3	13.83
	hari ke 28	3	17.00
	Total	18	

Test Statistics[a,b]

	pH
Chi-Square	16.428
df	5
Asymp. Sig.	.006

a. Kruskal Wallis Test

b. Grouping Variable: hari

Lampiran 19 Kartu Bimbingan

Riwayat Nilai Ujian

Nilai Akhir

No	Tanggal	Dosen Pembimbing	Topik	Disetujui	Aksi
1	20 Maret 2025	apt. YANNI DHIANI MARDHIANI, M.BSc.	Diskusi Prosedur	✔	
2	9 April 2025	apt. YANNI DHIANI MARDHIANI, M.BSc.	Progresan	✔	
3	11 April 2025	apt. YANNI DHIANI MARDHIANI, M.BSc.	Diskusi Prosedur	✔	
4	5 Mei 2025	apt. YANNI DHIANI MARDHIANI, M.BSc.	Kemajuan 1 TA2	✔	
5	23 Mei 2025	apt. YANNI DHIANI MARDHIANI, M.BSc.	Prosedur	✔	
6	28 Mei 2025	apt. YANNI DHIANI MARDHIANI, M.BSc.	Diskusi hasil pengamatan yang sudah diperoleh sebagian	✔	
7	4 Juli 2025	apt. YANNI DHIANI MARDHIANI, M.BSc.	Diskusi Pembahasan	✔	
8	7 Juli 2025	apt. YANNI DHIANI MARDHIANI, M.BSc.	Pembahasan	✔	
9	9 Juli 2025	apt. YANNI DHIANI MARDHIANI, M.BSc.	Progresan Kesimpulan	✔	

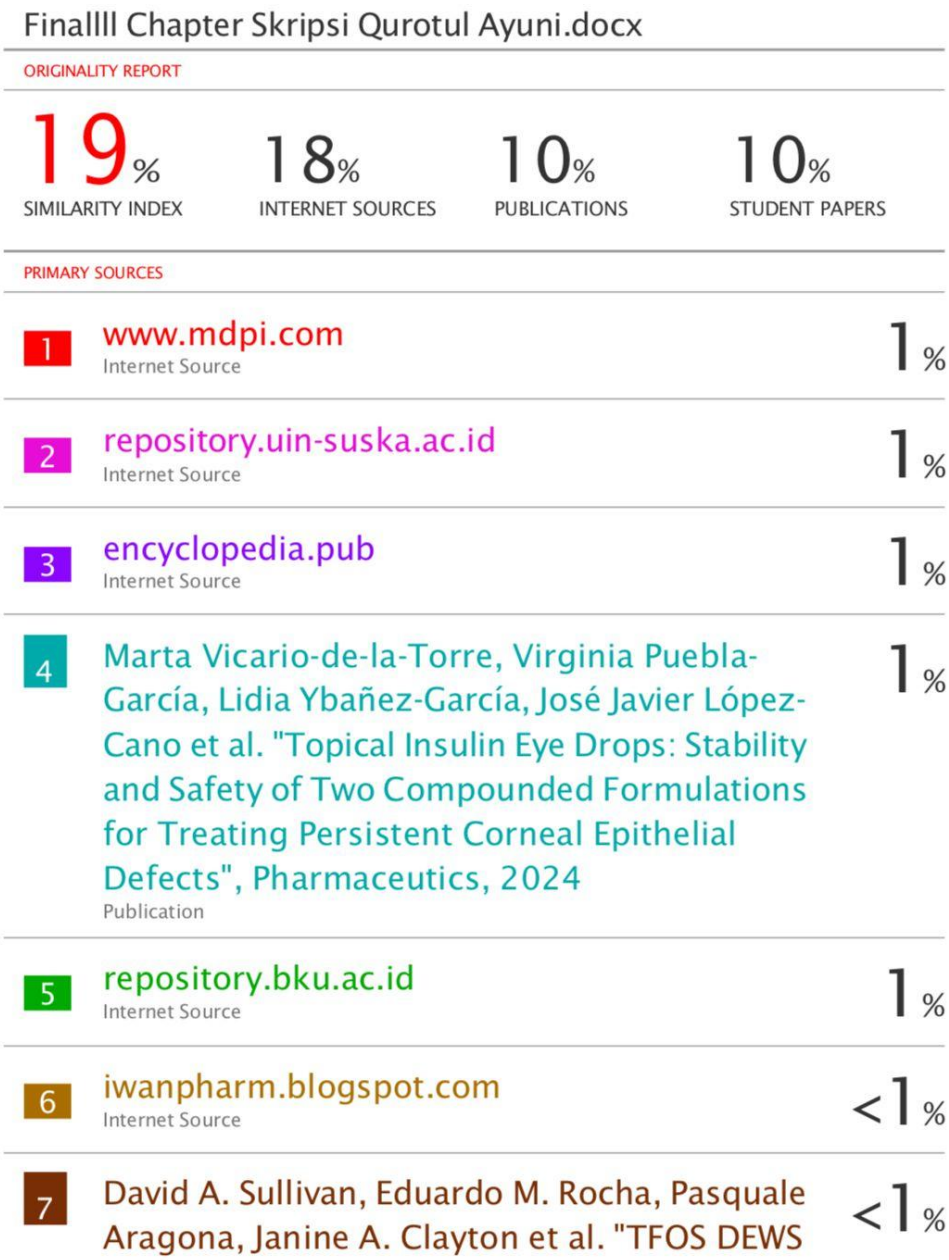
ABSENSI MBKM PENELITIAN RS CICENDO 2024

Nama : Qurotul Ayuni

NPM : 211FF03063

Hari/Tanggal	Paraf
11 April 2025	✓
16 April 2025	✓
27 Mei 2025	✓
20 Juni 2025	✓
28 Juni 2025	✓
30 Juni 2025	✓
4 Juli 2025	✓
9 Juli 2025	✓

Lampiran 20 Bukti Cek Plagiarisme



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Lampiran 21 Curriculum Vitae

Qurotul Ayuni

+6283147563444 | qurotuayuni273@gmail.com

Tentang Saya

Saya, Qurotul Ayuni, adalah lulusan baru yang penuh semangat dan siap untuk membawa energi positif ke dunia profesional. Dengan latar belakang pendidikan dalam bidang farmasi, saya telah mendapatkan pemahaman yang kuat tentang ilmu kefarmasian dan keterampilan praktis yang diperlukan untuk berkembang di dunia kerja.

Pendidikan

2018 - 2021 | SMK YPIB MAJALENGKA | Jurusan Farmasi

Jurusan ini mempersiapkan mahasiswa untuk memiliki kemampuan dalam mengelola yang fokus pada ilmu pengobatan, mulai dari pembuatan, pengembangan, analisis, hingga distribusi obat yang aman dan efektif.

2021 - 2025 | Universitas Bhakti Kencana Bandung | Program Studi Farmasi

Jurusan ini mempersiapkan mahasiswa untuk memiliki kemampuan dalam mengelola yang fokus pada ilmu pengobatan, mulai dari pembuatan, pengembangan, analisis, hingga distribusi obat yang aman dan efektif.

Pengalaman Kerja

2024 | Magang | PMN RS Mata Cicendo

Bertanggung jawab membantu staf farmasi terhadap segala resep baik secara administratif, farmasetik, dan klinis yang berkepentingan dengan instansi.

Kemampuan

Software Microsoft | Kemampuan Leadership | Bertanggungjawab | Kerja Sama Tim