

# LAMPIRAN

Lampiran 1

Surat Izin Penelitian



**KEMENTERIAN KESEHATAN REPUBLIK INDONESIA**  
**DIREKTORAT JENDERAL TENAGA KESEHATAN**  
**POLITEKNIK KESEHATAN TANJUNGPURUNING**  
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Nomor : PP.03.04/F.XLIII/441/2024  
Lampiran : 1 eks  
Hal : Izin Penelitian

19 Januari 2022

Yth, Direktur RSUD Dr. H. Abdul Moeloek Provinsi Lampung  
Di- Tempat

Sehubungan dengan penyusunan Tugas Akhir bagi mahasiswa Tingkat III Program Studi Teknologi Laboratorium Medis Program Diploma Tiga Jurusan Teknologi Laboratorium Medis Poltekkes Kemenkes Tanjungpuruning Tahun Akademik 2023/2024, maka kami mengharapkan dapat diberikan izin kepada mahasiswa kami untuk dapat melakukan penelitian di Institusi yang Bpk/Ibu pimpin. Adapun mahasiswa yang melakukan penelitian adalah sebagai berikut :

No	NAMA	JUDUL PENELITIAN	TEMPAT PENELITIAN
1.	Tiara Salsabila NIM: 2113453132	Gambaran Hasil Pemeriksaan <i>VENEREAL DISEASE RESEARCH LABORATORY (VDRL)</i> Dan <i>TREPONEMA PALLIDUM HAEMAGGLUTINATION ASSAY (TPHA)</i> Pada Pasien Sifilis	RSUD Dr. H. Abdul Moeloek

Atas perhatian dan kerjasamanya diucapkan terima kasih.

Direktur Politeknik Kesehatan Kementerian Kesehatan Tanjung Puruning,



Dewi Purwaningsih, S.SiT., M.Kes  
NIP 196705271988012001

Tembusan:  
1. Ka. Jurusan Teknologi Laboratorium Medis  
2. Ka. Bid. Diklat



PEMERINTAH PROVINSI LAMPUNG  
**RSUD Dr. H. ABDUL MOELOEK**  
BADAN LAYANAN UMUM DAERAH (BLUD)  
Jl. dr. Rivai No. 6 Telp. 0721 703312 Fax. 702306  
Bandar Lampung 35112



Laman : <https://www.rsudam.lampungprov.go.id> Pos-el: [humasrsudam23@gmail.com](mailto:humasrsudam23@gmail.com)

Bandar Lampung, 30 April 2024

Nomor : 000.9.2/0935/VII.01/IV/2024  
Sifat : Biasa  
Lampiran : -  
Perihal : Izin Penelitian

Yth Direktur Poltekkes Tanjung Karang  
di  
Bandar Lampung

Menjawab surat Saudara Nomor: PP.03.04/F.XLIII/441/2024 Tanggal 19 Januari 2024,  
perihal tersebut pada pokok surat, atas nama :

Nama : Tiara Salsabila  
NIM : 2113453132  
Prodi : D3 Teknologi Laboratorium Medis  
Judul : Gambaran Hasil Pemeriksaan Venereal Disease Research Laboratory (VDRL)  
Dan Treponema Pallidum Haemagglutination Assay (TPHA) Pada Pasien Sifilis Di  
RSUD Dr.H. Abdul Moeloek 2023

Dengan ini kami informasikan bahwa untuk kepentingan penelitian yang Bersangkutan Kami izinkan untuk pengambilan data di Instalasi Laboratorium Patologi Klinik Dan Instalasi Diklat RSUD Dr.H. Abdul Moeloek Provinsi Lampung dan Dilakukan di Jam Kerja Tanggal : 05 Mei – 19 Mei 2024. Dengan Menggunakan APD yang Telah Ditentukan Oleh Masing Masing Ruangan / Lokus Penelitian. Untuk Informasi Lebih Lanjut yang Bersangkutan dapat Berhubungan Dengan Instalasi Diklat RSUDAM.

Selanjutnya diinformasikan bahwa selama melakukan pengambilan data yang bersangkutan perlu memperhatikan hal – hal sebagai berikut :

1. Melapor pada Instalasi Diklat RSUD Dr.H.Abdul Moeloek Provinsi Lampung.
2. Data dari hasil penelitian tidak boleh disebariaskan/ digunakan diluar kepentingan ilmiah.
3. Memberikan laporan hasil penelitian pada Bagian Diklat RSUD Dr. H. Abdul Moeloek Provinsi Lampung.
4. Instalasi Diklat RSUD Dr. H. Abdul Moeloek Provinsi Lampung berhak atas hasil penelitian untuk pengembangan kegiatan pelayanan kepada masyarakat.
5. Kegiatan tersebut dikenakan biaya sesuai Pergub No. 18 Tahun 2023 Tentang Jenis dan Tarif Layanan Kesehatan di RSUDAM.

Demikian atas perhatiannya diucapkan terimakasih

Tembusan :  
Ka. Lab. PA

a.n Direktur  
Wakil Direktur Pendidikan  
Pengembangan SDM & Hukum,



**dr. Elitha M. Utari, MARS**  
Pembina Utama Muda  
NIP : 19710319 200212 2 004



PEMERINTAH PROVINSI LAMPUNG  
**RSUD Dr. H. ABDUL MOELOEK**

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**KETERANGAN LAYAK ETIK**  
*DESCRIPTION OF ETHICAL EXEMPTION*  
**"ETHICAL EXEMPTION"**  
No. 219/KEPK-RSUDAM/IV/2024

Protokol penelitian yang diusulkan oleh :  
*The research protocol proposed by*

Peneliti utama : Tiara Salsabila  
*Principal Investigator*

Nama institusi : Politeknik Kesehatan Tanjung Karang  
*Name of Institution*

Dengan Judul : Gambaran Hasil Pemeriksaan Venereal Disease  
*Title* Research Laboratory (VDRL) Dan Treponema Pallidum  
Haemagglutination Assay (TPHA) Pada Pasien Sifilis Di  
RSUD Dr.H. Abdul Moeloek 2023

Dinyatakan layak etik sesuai 7 (tujuh) standar WHO 2011, yaitu 1) Nilai Sosial, 2)Nilai ilmiah, 3)Pemerataan Beban dan Manfaat, 4)Risiko, 5) Bujukan/ Eksploitasi, 6) Kerahasiaan dan Privacy, dan 7)Persetujuan Setelah Penjelasan, yang merujuk pada Pedoman CIOMS 2016. Hal ini seperti yang ditunjukkan oleh terpenuhinya indicator setiap standar.

*Declared to be ethically appropriate in accordance to 7 (seven) WHO 2011 standards, 1)Social Values, 2)Scientific Values, 3)Equitable Assessment and Benefits, 4)Risks, 5)Persuasion/ Exploitation, 6)Confidentially and Privacy, and 7) Informed Consent, referring to the 2016 CIOMS Guidelines. This is as indicated by the fulfilment of the indicators of each standard.*

Pernyataan Laik Etik ini berlaku selama kurun waktu tanggal 30 April 2024 sampai dengan tanggal 30 April 2025.

*This declaration of ethics applies during the period 30 April, 2024 until, 30 April 2025.*



**dr. Rogatianus Bagus P., M.Kes., Sp.A(K)**  
NIP : 19730524 200312 1 005



**fortress**  
diagnostics

**RPR CARBON ANTIGEN**

PRODUCT CODE: SYRPR025/SYRPR050  
SYRPR100/SYRPR500

QUALITY MANAGEMENT SYSTEM  
ISO 9001 CERTIFIED COMPANY

**RPR CARBON ANTIGEN**

**SYNOPSIS**

**Principle:**  
The Rapid Plasma Reaction or RPR Card Test is a non-therapeutic method for the serological detection of syphilis. The antigen – a particulate carbon suspension coated with lipid conjugates – agglutinates in the presence of serum reagin. Reagin are antibodies present in the sera of syphilitic patients. Visible agglutination in the form of black clumps which can be viewed macroscopically, indicates the presence of such antibodies in the sample tested.

**Presentation:**

Cardwell	35 Tests	50 Tests	100 Tests	500 Tests
Anti Carbon Antigen	1 x 0.5ml	1 x 1.0ml	1 x 2.0ml	3 x 3.0ml
Positive Control	1 x 0.2ml	1 x 0.5ml	1 x 0.5ml	1 x 1.0ml
Negative Control	1 x 0.5ml	1 x 0.5ml	1 x 0.5ml	1 x 1.0ml
Dist. Middle Test	1	1	1	1
Dispensing Bottle	1	1	1	1
Disposable Tray	3	5	10	50
Cards				500
Quantity / Carton	35	50	100	500

**Composition:**  
Anti Carbon Antigen  
Controlled Carbon Suspension  
Controlled with lipid conjugates  
Sodium Azide 0.55g/L  
Sodium Serum  
Sodium Azide 0.55g/L  
Sodium Azide 0.55g/L  
Sodium Azide 0.55g/L  
Sodium Azide 0.55g/L

**Positive Control**  
Sodium Azide 0.55g/L  
Sodium Serum  
Sodium Azide 0.55g/L

**Negative Control**  
Sodium Azide 0.55g/L

Although all our components which have been derived from human origin have been tested and found to be negative for the presence of anti-HIV, anti-HCV as well as Hcag, it is recommended that they be handled carefully and treated as potentially infectious.

**Storage:**  
Store components at 2-8°C. Cards and Reagents may be kept at Room Temperature.

**Stability:**  
• Serum of Plasma stable for 48 hours at 2-8°C.  
• Samples should be free from contamination and hemolysis.

Fortress Diagnostics Limited, Unit 3C, Antenn Technology Park, Antenn, D141, ICDS (Surveed Sringapur)  
Tel: +44 (0) 2094 487676 | Fax: +44 (0) 2094 489933 | Website: [www.fortressdiagnostics.com](http://www.fortressdiagnostics.com)

SYRPR025	SYRPR050	SYRPR100	SYRPR500
25 TESTS	50 TESTS	100 TESTS	500 TESTS

STORE AT 2-8°C

**INSTRUCTIONS FOR USE**

FOR IN-VITRO DIAGNOSTIC USE ONLY

- Results will not affect the test result, unless it is severe enough to obscure the state of the antigen particles.

**Reagent Preparation:**  
Resuspend the Carbon Antigen gently to ensure thorough mixing. Transfer the required volume of Carbon Antigen to the dispensing bottle. Label the dispensing bottle with the antigen lot number, expiry and lot serial date. Once the antigen has been transferred to the dispensing bottle, it is stable for 3 months or until expiry date. **Additional Equipment:**  
Mechanical Shaker set at 100 rpm, 400ml shaking block 2.0 cm in diameter.

**Test Procedure - Qualitative Test**

1. Ring the reagent over alcohol or room temperature.
  2. Place 50µl of the sample and 1 drop of the control into separate circles of the card.
  3. Reconstitute the antigen gently.
  4. Add one drop of heat-killed antigen to each test circle.
  5. Mix with the disposable pipette. After one second pour the entire card into the tray. Use a new pipette for each sample.
  6. Rotate the card at 100 rpm for 3 minutes.
- Semi-Quantitative Test:**
1. Using a semi-quantitative (rigid) card 50µl of saline in circles 2, 3, and 4. Do not streak the saline.
  2. Add 50µl of patient sample in circle 2 and 4. Perform the mixture up and down being careful to mix saline in circle 3.
  3. Mix the saline into sample in circle 2 and 4.
  4. Perform later dilution in the same manner until the opt. circle, depending 50µl of the one.
  5. Using the pipette / tray, spread the diluted sample over the entire area of each circle allowing of circle 3 and working downwards to the next sample well from step 3.
  6. Proceed to the next dilution well from step 3.
- 1. Qualitative Test in Multiple Plates:**
1. Using a bar bottomed microtiter plate, add 50µl of patient serum.
  2. Add five drops of carbon antigen.
  3. Rotate on a mechanical shaker for 20 minutes at 100 rpm.
  4. Read macroscopically, after cover a light box or under a high intensity incandescent lamp tilted at white surface.

**Quality Control:**  
Each run of tests should be validated with a positive and negative

For In Vitro Diagnostics Use Only

Lot Number

Cardwell Number

Storage Temperature

Expiry Date (Year / Month)

Warning, Read Instruction Documents

Instructions For Use

Manufactured by

**Interpretation:**

**Read Interpretation:**  
Read the macroscopically for the presence or absence of clumps within a minute of removing the card from the rotator. Readings are mixed and reported according to the following criteria:

Observed Agglutinations	Reading	Report
Medium and Large Clumps	4	Reactive
Small Clumps	W	Weakly Reactive
No Clumping or very slight clumping	N	Non-Reactive

Reactive test may be traced to the more rapid two-fold titration in 5µl saline as described in the Quantitative Procedure earlier on. The serum titre is defined as the highest dilution showing a positive result.

**Performance Characteristics:**

- Cardwell tests are non-specific for syphilis. All reactive test samples should undergo a further specific serological test i.e. RPR, RIA, ELISA, to confirm the results.
- Convalescence, a non-reactive result by itself does not rule out the diagnosis of syphilis.
- Biologic false positive reactions have been reported in diseases such as infectious mononucleosis, viral pneumonia and rheumatoid, pregnancy and autoimmune diseases.
- This test is useful in delineating the effectiveness of antibiotic therapy.

**Sensitivity:** The test has a sensitivity of over 95%.

**Notes:**


1. At the end of each day's testing, the cards should be removed from the dispensing bottle, treated with distilled water and stored.
2. The sensitivity of the test may be reduced at low temperatures. The best results are obtained between 25 and 30°C.
3. It is a requirement to conduct the operating results verified by the reaction card.
4. RPR test procedure results are not comparable to other tests. RPR test procedure results may occur. Above the card under a transmitting cover if available.

**References:**

1. Corwin, et al. *Lab. Test-Theory* (1992), 13, 44-45.
2. *Practical Serology* (1992), 146-151, 22-23.
3. *Practical Serology* (1992), 146-151, 22-23.
4. *Practical Serology* (1992), 146-151, 22-23.

SYRPR RPR SYNOPSIS | Revision No.13 2017/18 | Page 1 of 3

Cara Kerja Pemeriksaan TPHA



**Fortress Diagnostics**

## TPHA HAEMAGGLUTINATION

PRODUCT CODE:  
SYTP0100/SYTP0200/SYTP1000

SYTP0100	SYTP0200	SYTP1000
100 TESTS	200 TESTS	1000 TESTS

**INSTRUCTIONS FOR USE**

STORE AT 2-8°C

FOR IN-VITRO DIAGNOSTIC USE ONLY

**For In Vitro Diagnostic Use Only**

Lot Number

Catalogue Number

Storage Temperature

Expiry Date Year / Month

Warning: Staff involved equipments

Instructions For Use

Manufactured By

### TPHA HAEMAGGLUTINATION SYPHILLS

**Principle:**  
The TPHA Test is a sensitive and specific indirect haemagglutination test for the detection of antibodies to Treponema pallidum in human serum and plasma. Prepared sheep erythrocytes are coated with antigen components of pathogenic T. Pallidum (heat-killed strain) Test Control Cells. The response is the presence of specific antibodies to T. Pallidum resulting in the formation of characteristic patterns in microtitre plates. Antibodies to non-pathogenic Treponemas are absorbed by an extract of bovine erythrocytes which has been added to the test suspension.

**Presentations:**

Container	100 Tests	200 Tests	1000 Tests
Test Cells	2 x 8.0ml	2 x 8.0ml	2 x 40ml
Control Cells	1 x 8.0ml	2 x 8.0ml	-
Reagent	2 x 20ml	2 x 10ml	2 X 100ml
Inhibitive Control	2 x 1.0ml	2 x 1.0ml	2 x 2.0ml
Negative Control	2 x 1.0ml	2 x 1.0ml	2 x 2.0ml

\* Not supplied in the 1000 Test kit as this is a screening kit.

**Additional Requirements Which Are Not Supplied:**

- Plates calibrated to dispense 10µl, 25µl, 75µl and 100µl
- 1 x well micro-titration plate.

**Composition:**

- TPHA Test Cells: Prepared sheep erythrocytes
- TPHA Test Control Cells: Ready to use
- TPHA Control Cells: Prepared sheep erythrocytes.

**offtest Diagnostics Limited, 5/A Anson Technology Park, Anson, 8141 (C2) Pandan Kiriport, 4144 (C2) 2094 4874/3 | Fax: 444 (0) 2094 489233 | Website: www.offtestdiagnostics.com**

**Reagent:** Ready-to-use. Ready-to-use. Pre-diluted 1:20 Ready-to-use. Pre-diluted 1:20 Ready-to-use.

**Positive Control:** Pre-diluted 1:20 Ready-to-use.

**Negative Control:** Pre-diluted 1:20 Ready-to-use.

The reagents in each kit have been standardized to produce the reaction and therefore reagents should not be interchanged with those from other batches.

**Storage:** Store components at 2-8°C in an upright position at all times.

**Shelf-life:** 12 months.

**Preparation:** Serially dilute - free from contamination and haemolysis, and at 1:1000. Syphilis sera may be stored for up to 7 days between 2-8°C and at 1:1000. Syphilis sera may be stored for up to 7 days between 2-8°C. Strictly avoid contamination of any of the reagents or serum dilutions with water at any time. Do not use the reagents or serum dilutions in the presence of residual or trace amounts of mercury. Do not use the reagents or serum dilutions in the presence of residual or trace amounts of mercury. Do not use the reagents or serum dilutions in the presence of residual or trace amounts of mercury.

**Reagent Preparation:**

- All the reagents are supplied in a ready-to-use format.
- Test and Control Cells should be thoroughly suspended prior to use.
- As the reagents must be allowed to reach room temperature before use.

**Test Procedure: Qualitative Test**

- Each sample requires three microtitre wells.
- Add 10µl of diluent to Well 1.
- Add 10µl of sample to Well 2 and mix.
- Transfer 25µl from Well 1 to Well 2 & mix.
- Ensure that the test & control cells have been thoroughly resuspended.

**Quantitative Test for Patient Samples**

- Each sample requires 3 Wells of a microtitreation plate.
- Add 100µl of diluent to Well 1.
- Add 10µl of patient to Well 2 through Well 3.
- Transfer 25µl from Well 2 to Well 3.
- Transfer 25µl from Well 3 to Well 4.
- Repeat this step until the serial dilution has been completed.
- Transfer 25µl from the last dilution well to Well 5.
- Repeat this step until the serial dilution has been completed.
- Ensure that the Test Cells and Control Cells have been thoroughly resuspended.
- Add 75µl of Test Cells to Wells 1, 3, 4, 5, 6, 7, 8, 9, 10 and 11.
- Add 75µl of Control Cells to Well 1.
- Tap the plate gently to mix the contents thoroughly. Cover the plate and incubate for 45 - 60 minutes or overnight in an area which is away from heat, direct sunlight and vibration.

**Quantitative Test for QC Materials**

- Each control requires 11 Wells of a microtitreation plate.
- Add 25µl of diluent to Wells 1 through to 11.
- Add 25µl of control to Wells 1, 2 and 3.
- Mix the 1:200 dilution now in Well 3 and transfer 25µl to Well 4.
- Repeat this step until the serial dilution has been completed.
- Ensure the Test Cells and Control Cells have been thoroughly resuspended.
- Add 75µl of Test Cells to Wells 1, 3, 4, 5, 6, 7, 8, 9, 10 and 11.
- Add 75µl of Control Cells to Well 1.
- Tap the plate gently to mix the contents thoroughly. Cover the plate and incubate for 45 - 60 minutes or overnight in an area which is away from heat, direct sunlight and vibration.

When preparing a titre, use the following sequence for dilution:

Well 1	Well 2	Well 3	Well 4	Well 5	Well 6	Well 7	Well 8
Test Cell 100µl	Test Cell 100µl	Test Cell 100µl	Test Cell 100µl	Test Cell 100µl	Test Cell 100µl	Test Cell 100µl	Test Cell 100µl
Control Cell 100µl	Control Cell 100µl	Control Cell 100µl	Control Cell 100µl	Control Cell 100µl	Control Cell 100µl	Control Cell 100µl	Control Cell 100µl
Test Cell 100µl	Test Cell 100µl	Test Cell 100µl	Test Cell 100µl	Test Cell 100µl	Test Cell 100µl	Test Cell 100µl	Test Cell 100µl
Control Cell 100µl	Control Cell 100µl	Control Cell 100µl	Control Cell 100µl	Control Cell 100µl	Control Cell 100µl	Control Cell 100µl	Control Cell 100µl

Add 75 µl of test cell to each well (3-8) once the dilution series is complete. Diluent 25% from Well 9 before the addition of 75µl of test cell.

Control cell (well 2) should show no agglutination, it contains no antigen.

#### Non-Specific Adsorption Steps

Very occasionally the presence of non-specific antibodies can result in the agglutination of both the Test Cells and the Control Cells. In this instance the sample should be retested once the following stringent steps have been completed:

1. Add 100µl of the test serum to a small tube.
2. To this add 100µl of Control Cells.
3. Mix well and allow to stand at room temperature (18-25°C) for 1 hour.
4. Centrifuge at 1000rpm for 5 minutes and test the supernatant by the qualitative method.

**NB** The sample is now at a 1/5 dilution. This should be taken into consideration when preparing the dilution.

If the result is repeatedly non-specific, the sample should be tested by another method e.g. FIT-ABS.

#### Quality Control:

Each run of tests should be validated with a positive and negative control.

#### Interpretation of results and assay validation

##### Assay Control

The Kit Controls must be given the correct result: Negative is Negative and Positive is Positive. When the Kit Positive is titrated, the expected end point is 320 – 3560.








Below is an example of a reaction run where Positive and Negative controls are tested alongside a positive patient control.



A sample where the Test Cell well is non-reactive should be considered as negative for Treponema. Reactivity less than equivalocal is considered negative.

A sample where the Test Cell well is reactive indicates antibodies to Treponema resulting from a syphilis infection. The sample should be retested in duplicate. Where 2 or more wells are positive the sample is considered seropositive.

- |   |                        |       |   |
|---|------------------------|-------|---|
|  | <b>Strong Positive</b> | (16)  | Indicates that at least 16000 copies, sometimes with faded edges, of subunit part of cell, surrounded by a ring of cells. |
|  | <b>Positive</b>        | (32)  | Indicates that at least 32000 copies, sometimes with faded edges, of subunit part of cell, surrounded by a ring of cells. |
|  | <b>Weak Positive</b>   | (64)  | Indicates that at least 64000 copies, sometimes with faded edges, of subunit part of cell, surrounded by a ring of cells. |
|  | <b>Indeterminate</b>   | (128) | Well without distinct edges with a few copies.  |
|  | <b>Negative</b>        | (256) | Compact button in the well base.  |
- Is considered positive and should be repeated as above.

Where a sample has greater or equal agglutination to the Control Cell then the sample should be absorbed using the following procedure:

1. **Additional Culture:**
  1. Rothner J. - Hemagglutination test using antigen from pathogenic and avirulent Treponema pallidum WHO/WHO 1965: 27-45.
  2. Toranzo T, Kawanishi S. - Hemagglutination test for diagnosis of syphilis. A preliminary report. Japan J. Med. Sci. Biol. 19: 505-508, 1956.
  3. Rothner J. - Hemagglutination test using pathogenic Treponema pallidum for the serodiagnosis of syphilis. Br J Venereol. 1967; 43: 181-5.
  4. Toranzo T, Kawanishi S, Toranzo S. - Effect of the neutralization test using Treponema pallidum antigen (TPHA) for the serodiagnosis of syphilis. Jpn J Med Sci Biol 1969; 22: 341-50.
  5. Rodriguez P, LL, Fitzhugh A.E. - Treponemal hemagglutination test. Br J Venereol. 1973; 49: 282-8.
  6. Lorenz S.A, Hornbe E.A., et al. - Specificity, sensitivity and reabsorbability of the fluorescent hemagglutination test, the treponemal hemagglutination assay for Treponema pallidum antibody and the hemagglutination test for syphilis. J Clin Microbiol. 1981; 14: 481-483.
2. **Waters G.D. & Wong H.H.Y. Syphilis Serology Principles and Practice.** Oxford Medical Publications 104 - 105.

Lampiran 4

Tabel Hasil Pemeriksaan VDRL dan TPHA Pada Pasien Sifilis di RSUD Dr. H. Abdul Moeloek 2023

NO	Nama/No.RM	Jenis Kelamin	Umur	VDRL	TPHA
1	KR/680291	L	33	Reaktif	Reaktif(1:160)
2	JD/720288	L	30	Non Reaktif	Non Reaktif
3	SY/7151197	L	27	Reaktif	Reaktif(1:160)
4	TR/721254	P	24	Non Reaktif	Non Reaktif
5	RS/496355	P	35	Non Reaktif	Non Reaktif
6	SN/618964	P	28	Non Reaktif	Non Reaktif
7	NP/721041	P	33	Non Reaktif	Non Reaktif
8	EH/722040	L	39	Reaktif	Reaktif(1:2560)
9	AR/721912	L	36	Non Reaktif	Non Reaktif
10	YY/721589	P	34	Non Reaktif	Non Reaktif
11	HO/411789	L	40	Non Reaktif	Non Reaktif
12	TN/721450	L	42	Reaktif	Reaktif(1:80)
13	ET/555144	L	45	Non Reaktif	Non Reaktif
14	MR/721853	L	39	Non Reaktif	Non Reaktif
15	IK/721898	P	19	Non Reaktif	Non Reaktif
16	RF/726188	L	21	Reaktif	Reaktif(1:320)
17	HS/717890	L	26	Non Reaktif	Non Reaktif
18	UR/723470	L	31	Non Reaktif	Non Reaktif
19	ES/726334	P	25	Reaktif	Reaktif(1:640)
20	AH/726119	L	18	Non Reaktif	Non Reaktif
21	MA/711545	L	25	Non Reaktif	Non Reaktif
22	NN/628905	P	31	Reaktif	Reaktif(1:2560)
23	PD/725863	L	35	Non Reaktif	Non Reaktif
24	DN/717105	P	23	Non Reaktif	Non Reaktif
25	AI/708165	L	25	Reaktif	Reaktif(1:1280)
26	MZ/701846	L	32	Non Reaktif	Non Reaktif
27	ES/727862	L	30	Non Reaktif	Non Reaktif
28	SK/725835	P	28	Non Reaktif	Non Reaktif
29	AP/726233	L	25	Non Reaktif	Non Reaktif
30	RW/727885	P	33	Non Reaktif	Non Reaktif
31	DA/727877	P	36	Non Reaktif	Non Reaktif
32	MR/727792	L	33	Non Reaktif	Non Reaktif
33	AE/612595	L	28	Reaktif	Reaktif(1:640)
34	HP/728745	L	24	Non Reaktif	Non Reaktif
35	DN/722283	P	29	Non Reaktif	Non Reaktif
36	SR/726888	L	36	Reaktif	Reaktif(1:320)
37	SH/728283	P	41	Non Reaktif	Non Reaktif
38	MA/219063	P	32	Non Reaktif	Non Reaktif



39	AM/728637	P	29	Reaktif	Reaktif(1:640)
40	MA/729214	P	31	Non Reaktif	Non Reaktif
41	RV/729167	P	24	Non Reaktif	Non Reaktif
42	JW/690501	L	32	Reaktif	Reaktif(1:1280)
43	JN/729213	L	29	Non Reaktif	Non Reaktif
44	EW/728945	P	34	Non Reaktif	Non Reaktif
45	SN/728950	L	30	Reaktif	Reaktif(1:160)
46	AH/727932	P	28	Reaktif	Non Reaktif
47	WO/729136	L	31	Non Reaktif	Non Reaktif
48	MR/313204	L	25	Reaktif	Non Reaktif
49	AM/584127	L	23	Reaktif	Non Reaktif
50	CD/729308	L	27	Reaktif	Reaktif(1:80)
51	LS/729276	P	25	Non Reaktif	Non Reaktif
52	GM/729233	P	22	Non Reaktif	Non Reaktif
53	ER/728768	L	27	Reaktif	Non Reaktif
54	RJ/726084	L	25	Non Reaktif	Non Reaktif
55	PA/729367	P	30	Non Reaktif	Non Reaktif
56	EA/672297	P	32	Reaktif	Reaktif(1:160)
57	MI/730596	P	31	Non Reaktif	Non Reaktif
58	NF/728628	P	29	Non Reaktif	Non Reaktif
59	NJ/730575	P	25	Non Reaktif	Non Reaktif
60	YI/730677	L	32	Reaktif	Reaktif(1:640)
61	ZA/730476	L	36	Non Reaktif	Non Reaktif
62	MP/730579	L	31	Non Reaktif	Non Reaktif
63	SY/730310	P	28	Non Reaktif	Non Reaktif
64	AF/672296	L	30	Reaktif	Reaktif(1:160)
65	SW/730464	P	29	Non Reaktif	Non Reaktif
66	SN/728950	L	39	Reaktif	Reaktif(1:1280)
67	YA/663245	L	33	Reaktif	Reaktif(1:160)
68	DA/741041	P	27	Non Reaktif	Non Reaktif
69	DS/741561	P	24	Reaktif	Reaktif(1:80)
70	IM/740383	L	28	Non Reaktif	Non Reaktif
71	AP/740094	L	31	Non Reaktif	Non Reaktif
72	FD/570439	L	29	Reaktif	Reaktif(1:5120)
73	CD/740748	P	23	Non Reaktif	Non Reaktif
74	LP/713473	L	27	Non Reaktif	Non Reaktif
75	OR/740787	P	24	Non Reaktif	Non Reaktif
76	EY/580300	P	29	Non Reaktif	Non Reaktif
77	RO/740228	L	30	Non Reaktif	Non Reaktif
78	AF/550697	L	32	Non Reaktif	Non Reaktif
79	AD/702253	L	35	Reaktif	Reaktif(1:80)
80	MA/711545	L	32	Reaktif	Reaktif(1:1280)
81	AP/738928	P	30	Non Reaktif	Non Reaktif

82	WR/738865	L	32	Reaktif	Reaktif(1:2560)
83	WS/738772	L	36	Non Reaktif	Non Reaktif
84	ED/738761	P	28	Non Reaktif	Non Reaktif
85	FP/735099	L	26	Non Reaktif	Non Reaktif
86	LM/735350	P	29	Non Reaktif	Non Reaktif
87	SP/705744	L	24	Reaktif	Reaktif(1:1280)
88	TS/735478	P	30	Non Reaktif	Non Reaktif
89	MM/465841	P	33	Non Reaktif	Non Reaktif
90	EA/362750	P	38	Non Reaktif	Non Reaktif
91	RH/721052	L	30	Reaktif	Reaktif(1:80)
92	SH/734648	P	33	Non Reaktif	Non Reaktif
93	BA/742335	L	34	Reaktif	Reaktif(1:1280)
94	NN/734452	P	28	Non Reaktif	Non Reaktif
95	YA/738550	L	26	Non Reaktif	Non Reaktif
96	MA/740047	L	24	Reaktif	Reaktif(1:80)
97	YH/416502	L	30	Reaktif	Reaktif(1:80)
98	GS/2224583	L	31	Non Reaktif	Non Reaktif
99	IS/743474	L	29	Non Reaktif	Non Reaktif
100	WA/724433	P	36	Reaktif	Reaktif(1:80)
101	FO/735972	P	40	Non Reaktif	Non Reaktif
102	AM/736450	L	38	Reaktif	Reaktif(1:160)
103	SA/735650	P	29	Non Reaktif	Non Reaktif

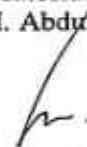
Mengetahui,

Peneliti



**Tiara Salsabila**  
NIM.2113453132

Kepala Ruangan Instalasi  
Laboratorium RSUD Dr.  
H. Abdul Moelock



**Nurhaeni, S.St., M.Si**  
NIP.197010151989122002

Lampiran 5  
Dokumentasi Penelitian

Penelusuran dan pencatatan data pasien sifilis di RSUD Dr. H. Abdul Moeloek







Lampiran 6

Log Book Penelitian

**LOG BOOK PENELITIAN  
KARYA TULIS ILMIAH**

Nama Mahasiswa : Tiara Salsabila  
NIM : 2113453132  
Judul KTI : Gambaran Hasil Pemeriksaan *Venereal Disease Research Laboratory* (VDRL) dan *Treponema Pallidum Haemagglutination Assay* (TPHA) Pada Pasien Sifilis di RSUD Dr. H. Abdul Moeloek Tahun 2023  
Pembimbing Utama : A. Zakaria Amien, Skep., M.Imun  
Pembimbing Pendamping : Nurminha, S.Pd., M.Sc

NO	Tanggal	Jenis Kegiatan	Paraf
1.	Kamis, 14 Maret 2024	Pengajuan surat izin penelitian ke diklat RSUD Dr.H.Abdul Moeloek	
2.	Selasa, 19 Maret 2024	Pengajuan persetujuan etik ke diklat RSUD Dr.H.Abdul Moeloek	
3.	Senin, 8 April 2024	Pengajuan permohonan izin penelitian kepada kepala instalasi laboratorium patologi klinik RSUD Dr.H.Abdul Moeloek	
4.	Jum'at, 17 Mei 2024	Pengambilan data berupa hasil pemeriksaan di laboratorium patologi klinik RSUD Dr.H.Abdul Moeloek	

Mengetahui,

Peneliti



**Tiara Salsabila**  
Nim. 2113453132

Kepala Ruangan Instalasi  
Laboratorium Klinik RSUD Dr. H.  
Abdul Moeloek










**Nurhaeni, S.St., M.Si**  
NIP.197010151989122002

Lampiran 7

Lembar Konsultasi

**KARTU BIMBINGAN KTI  
PROGRAM STUDI TEKNOLOGI LABORATORIUM MEDIK PROGRAM DIPLOMA  
TIGATAHUN AKADEMIK 2023-2024**

Nama Mahasiswa : Tiara Salsabila  
 NIM : 2113453132  
 Judul KTI : Gambaran Hasil Pemeriksaan *Veneral Disease Research Laboratory (VDRL)* dan *Treponema Pallidum Haemagglutination Assay (TPHA)* Pada Pasien Sifilis di RSUD Dr. H. Abdul Moeloek Tahun 2023  
 Pembimbing Pendamping : A. Zakaria Amien, Skep., M. Imun

No	Tanggal Bimbingan	Materi Bimbingan	Keterangan	paraf
1.	3 Januari 2024	· konsultasi proposal · Penulisan daftar pustaka · literatur	Perbaikan	
2.	5 Januari 2024	· BAB I - III · Latar belakang · Tujuan · ruang lingkup	Perbaikan	
3.	8 Januari 2024	· BAB I - III · Latar belakang · Definisi operasional	Perbaikan	
4.	9 Januari 2024	· BAB I - III	ACC Seminar Proposal	
5.	15 Januari 2024	· BAB I, II, III · Perbaikan seminar proposal	ACC perbaikan	
6.	29 Mei 2024	· konsultasi hasil penelitian	Perbaikan	
7.	29 Mei 2024	· BAB IV dan V · tabel hasil · pembahasan	Perbaikan	

No	Tanggal Bimbingan	Materi Bimbingan	Keterangan	paraf
8	10 Juni 2024	<ul style="list-style-type: none"> <li>Abstrak</li> <li>BAB IV dan V</li> <li>Pembahasan</li> <li>Perambahan Pembahasan</li> </ul>	Perbaikan	T
9	13 Juni 2024	<ul style="list-style-type: none"> <li>Pembahasan</li> <li>Abstrak</li> </ul>	Perbaikan	T
10	21 Juni 2024	<ul style="list-style-type: none"> <li>Pembahasan</li> </ul>	Ruro	T
11	24 Juni 2024	Turnitin	ACC semhas	T.
12	23 Juli 2024	Perbaikan Setelah Semhas	Revisi	T.
13	25 Juli 2024	Perbaikan Setelah Semhas	Ke cek	T.






Ketua Prodi TLM Program Diploma Tiga

  
 Mishahul Huda, S.Si, M.Kes  
 NIP. 196912221997032001

**KARTU BIMBINGAN KTI**  
**PROGRAM STUDI TEKNOLOGI LABORATORIUM MEDIK PROGRAM DIPLOMA**  
**TIGATAHUN AKADEMIK 2023-2024**

Nama Mahasiswa : Tiara Salsabila  
 NIM : 2113453132  
 Judul KTI : Gambaran Hasil Pemeriksaan *Veneral Disease Research Laboratory* (VDRL) dan *Treponema Pallidum Haemagglutination Assay* (TPHA) Pada Pasien Sifilis di RSUD Dr. H. Abdul Moeloek Tahun 2023  
 Pembimbing Pendamping : Nurminha, S.Pd., M.Sc

No	Tanggal Bimbingan	Materi Bimbingan	Keterangan	paraf
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2.	5 Januari 2024	<ul style="list-style-type: none"> <li>Lampiran cara kerja</li> <li>Penambahan teori BAB II</li> <li>Jurnal</li> </ul>	Perbaikan	hw
3.	8 Januari 2024	<ul style="list-style-type: none"> <li>BAB I - III</li> <li>penulisan</li> <li>metode penelitian</li> </ul>	Perbaikan	hw
4.	10 Januari 2024	<ul style="list-style-type: none"> <li>BAB I, II, III</li> </ul>	Acc Seminar proposal	hw
5.	15 Januari 2024	<ul style="list-style-type: none"> <li>BAB II</li> <li>Penambahan teori</li> <li>Perbaikan Seminar proposal</li> </ul>	Perbaikan	hw
6.	19 Januari 2024	<ul style="list-style-type: none"> <li>BAB I, II, III</li> <li>Perbaikan Seminar proposal</li> </ul>	Acc Perbaikan	hw
7.	6 Juni 2024	<ul style="list-style-type: none"> <li>BAB IV dan V</li> <li>Perbaikan tabel hasil penelitian</li> <li>kesimpulan + saran</li> <li>Pembahasan</li> </ul>	Perbaikan	hw

No	Tanggal Bimbingan	Materi Bimbingan	Keterangan	paraf
8.	19 Juni 2029	<ul style="list-style-type: none"> <li>• Pembahasan</li> <li>• Judul</li> <li>• tabel</li> </ul>	Perbaiki	
9.	19 Juni 2029	<ul style="list-style-type: none"> <li>• Bab I - V</li> <li>• Pembahasan</li> <li>• Judul</li> </ul>	Perbaiki	
10.	21 Juni 2029	• Bab I, II, III, IV, V	Acc Semhas	
11.	22 Juli 2029	• Perbaiki Semhas		
12.	25 Juli 2029	• Abstrak	Acc cetak	

Ketua Prodi TLM Program Diploma Tiga

  
 Misbahul Huda, S.Si, M.Kes  
 NIP. 196912221997032001



Lampiran 8

Hasil Uji Plagiarisme

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