

## Lampiran I: Surat Ijin Penelitian

### SURAT IJIN PENELITIAN

Kupang, 6 Mei 2024

Perihal Ijin Penggunaan Laboratorium Dan Peminjaman Alat

Yth.

Bpk. Ketua Program Studi Sanitasi Poltekes Kemenkes Kupang

di-

Tempat

Sehubungan dengan pelaksanaan Penelitian Tugas Akhir Mahasiswa Tingkat Tiga Program Studi Sanitasi Politeknik Kesehatan Kemenkes Kupang Tahun Ajaran 2023/2024, maka melalui surat ini saya memohon ijin kepada Bapak Ketua Program Studi Sanitasi Poltekes Kemekes Kupang untuk menggunkan Laboratorium Entomologi sebagai lokasi penelitian saya (Daftar nama alat terlampir).

Nama : JEINNIFER PRISCILLA SOLET

Nim : PO5303330210916

Judul penelitian : "UJI EFEKTIVITAS EKSTRAK BIJI PAPAYA (CARICA PAPAYA)  
TERHADAP KEMATIAN JENTIK *AEDES SP* DAN *ANOPEHELES SP*."

Demikian permohonan ini, atas perhatian dan bantuan Bapak saya ucapkan terimakasih.

Permohonan

JEINNIFER PRISCILLA SOLET  
PO5303330210916

Daftar alat-alat dan bahan penelitian

| No | Jenis alat dan bahan           | Jumlah   |
|----|--------------------------------|----------|
| 1  | Blender                        | 1 buah   |
| 2  | Timbangan analitik             | 1 buah   |
| 3  | Beaker gelas 1000 ml           | 4 buah   |
| 4  | Pipet                          | 2 buah   |
| 5  | Pengaduk                       | 2 buah   |
| 6  | Kertas saring                  | 4 lembar |
| 7  | Kertas aluminium foil          | 2 lembar |
| 8  | Nampan                         | 2 buah   |
| 9  | Periuk tanah                   | 4 buah   |
| 10 | Gelas ukur 10 ml               | 1 buah   |
| 11 | Cidukan                        | 2 buah   |
| 12 | Kertas indikator               |          |
| 13 | Thermometer                    | 1 buah   |
| 14 | Kertas coklat dan kertas label |          |

Permohonan

JEINNIFER PRISCILLA SOLET  
PO5303330210916

## Lampiran II: Dokumentasi Kegiatan Penelitian



Biji pepaya yang dijemur



Biji papaya di blender hingga halus



Ayak hasil blender di ayak



Pengadukan



Penyaringan ekstrak



Penyaringan ekstrak



Hasil ekstrak yang sudah disaring



Penangkapan jentik *Anopheles* di labat



Penangkapan jentik *Aedes* di kelapa lima



Memipet jentik *Aedes* dari wadah ke beaker glass



Memipet jentik *Anopheles* dari wadah ke periuk tanah



Memasukan ekstrak biji pepaya kedalam beaker glass yang berisi jentik *Aedes*



Memasukan ekstrak biji pepaya kedalam periuk tanah yang berisi jentik *Anopheles*



Pengamatan jentik *Aedes*



Pengamatan jentik *Anopheles*



Identifikasi jentik *Aedes sp*



Identifikasi jentik *Anopheles sp*



Hasil identifikasi jentik *Aedes sp*



Hasil identifikasi jentik *Anopheles sp*

### Lampiran III: Surat Keterangan Hasil Penelitian



**Kementerian Kesehatan**  
Poltekkes Kupang  
Jalan Piet A. Tallo, Liliba, Oebobo,  
Kupang, Nusa Tenggara Timur 85111  
(0380) 8800256  
<https://poltekkeskupang.ac.id>

No : 33/Lab KL/06/2024  
Pengambil : Jeinnifer Priscilla Solet  
Alamat Sampel : Kelapa Lima  
Jenis Sampel : Jentik Nyamuk  
Jumlah Sampel : 300 Sampel  
Jumlah Parameter Uji : 1 Parameter Uji  
Tanggal Pengambilan : 11 Juni 2024  
Tanggal Pengiriman : 12 Juni 2024  
Tanggal Pemeriksaan : 12-13 Juni 2024  
Jenis pemeriksaan : Spesies Jentik

Juni 2024

**HASIL LABORATORIUM**

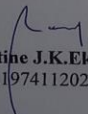
**Hasil Penelitian Perlakuan I. Jentik Aedes sp**

| Waktu  | Jumlah jentik | Kematian Jentik |      |       | Kontrol | Suhu | Ph |
|--------|---------------|-----------------|------|-------|---------|------|----|
|        |               | 4 ml            | 7 ml | 10 ml |         |      |    |
| 1 jam  | 25            | 1               | 1    | 2     | 0       | 27,5 | 7  |
| 2 jam  |               | 2               | 3    | 3     | 0       | 27,8 | 7  |
| 4 jam  |               | 4               | 5    | 5     | 0       | 27,7 | 7  |
| 8 jam  |               | 6               | 8    | 8     | 0       | 27,0 | 7  |
| 12 jam |               | 9               | 12   | 14    | 0       | 27,6 | 7  |
| 24 jam |               | 12              | 17   | 20    | 0       | 27,8 | 7  |

Catatan:  
1. Hasil uji ini hanya berlaku untuk contoh uji yang diuji  
2. Semua parameter diuji di Laboratorium Entomologi

Pemeriksa  
  
**Yohana Mayansia Pia Mada A.Md.KL**  
NIP. 198606242010012030

PJ. Laboratorium

Mengetahui  
  
**Dr.Christine J.K.Ekawati, SSi.M.Si**  
NIP.197411202000032002

  
**Ketua Prodi Sanitasi**  
  
**Oktofianus Sila SKM.M.Sc**  
NIP.197510142000031001

No : 33/Lab KL/06/2024  
Pengambil : Jeinnifer Priscilla Solet  
Alamat Sampel : Kelapa Lima  
Jenis Sampel : Jentik Nyamuk  
Jumlah Sampel : 300 Sampel  
Jumlah Parameter Uji : 1 Parameter Uji  
Tanggal Pengambilan : 11 Juni 2024  
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Tanggal Pemeriksaan : 12-13 Juni 2024  
Jenis pemeriksaan : Spesies Jentik

Juni 2024

### HASIL LABORATORIUM

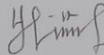
#### Hasil Penelitian Perlakuan II. Jentik Aedes sp

| Waktu  | Jumlah jentik | Kematian Jentik |      |       | Kontrol | Suhu | Ph |
|--------|---------------|-----------------|------|-------|---------|------|----|
|        |               | 4 ml            | 7 ml | 10 ml |         |      |    |
| 1 jam  | 25            | 1               | 2    | 4     | 0       | 27,4 | 7  |
| 2 jam  |               | 3               | 4    | 6     | 0       | 27,0 | 7  |
| 4 jam  |               | 6               | 7    | 9     | 0       | 27,5 | 7  |
| 8 jam  |               | 7               | 9    | 11    | 0       | 27,4 | 7  |
| 12 jam |               | 9               | 10   | 15    | 0       | 27,3 | 7  |
| 24 jam |               | 11              | 15   | 22    | 0       | 27,8 | 7  |

#### Catatan:

1. Hasil uji ini hanya berlaku untuk contoh uji yang diuji
2. Semua parameter diuji di Laboratorium Entomologi

Pemeriksa



**Yohana Mayansia Pia Mada A.Md.KL**  
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No : 33/Lab KL/06/2024  
Pengambil : Jeinnifer Priscilla Solet  
Alamat Sampel : Kelapa Lima  
Jenis Sampel : Jentik Nyamuk  
Jumlah Sampel : 300 Sampel  
Jumlah Parameter Uji : 1 Parameter Uji  
Tanggal Pengambilan : 11 Juni 2024  
Tanggal Pengiriman : 12 Juni 2024  
Tanggal Pemeriksaan : 12-13 Juni 2024  
Jenis pemeriksaan : Spesies Jentik

Juni 2024

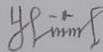
**HASIL LABORATORIUM****Hasil Penelitian Perlakuan III. Jentik Aedes sp**

| Waktu  | Jumlah jentik | Kematian Jentik |      |       | Kontrol | Suhu | Ph |
|--------|---------------|-----------------|------|-------|---------|------|----|
|        |               | 4 ml            | 7 ml | 10 ml |         |      |    |
| 1 jam  | 25            | 2               | 4    | 5     | 0       | 27,9 | 7  |
| 2 jam  |               | 3               | 6    | 7     | 0       | 27,8 | 7  |
| 4 jam  |               | 5               | 7    | 10    | 0       | 27,5 | 7  |
| 8 jam  |               | 8               | 9    | 13    | 0       | 27,3 | 7  |
| 12 jam |               | 13              | 17   | 16    | 0       | 27,7 | 7  |
| 24 jam |               | 13              | 17   | 24    | 0       | 27,4 | 7  |

## Catatan:

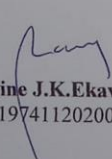
- Hasil uji ini hanya berlaku untuk contoh uji yang diuji
- Semua parameter diuji di Laboratorium Entomologi

Pemeriksa

**Yohana Mayansia Pia Mada A.Md.KL**  
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PJ. Laboratorium

Mengetahui

  
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NIP. 197411202000032002**Oktofianus Sila, SKM.M.Sc**  
NIP. 197510142000031001

No : 33/Lab KL/06/2024  
Pengambil : Jeinnifer Priscilla Solet  
Alamat Sampel : Labat  
Jenis Sampel : Jentik Nyamuk  
Jumlah Sampel : 300 Sampel  
Jumlah Parameter Uji : 1 Parameter Uji  
Tanggal Pengambilan : 11 Juni 2024  
Tanggal Pengiriman : 12 Juni 2024  
Tanggal Pemeriksaan : 12-13 Juni 2024  
Jenis pemeriksaan : Spesies Jentik

Juni 2024

**HASIL LABORATORIUM****Hasil Penelitian Perlakuan 1. Jentik Anopheles**

| Waktu  | Jumlah jentik | Kematian Jentik |      |       | Kontrol | Suhu | Ph |
|--------|---------------|-----------------|------|-------|---------|------|----|
|        |               | 4 ml            | 7 ml | 10 ml |         |      |    |
| 1 jam  | 25            | 1               | 2    | 4     | 0       | 26,4 | 7  |
| 2 jam  |               | 2               | 3    | 6     | 0       | 26,5 | 7  |
| 4 jam  |               | 3               | 5    | 8     | 0       | 26,9 | 7  |
| 8 jam  |               | 6               | 7    | 11    | 0       | 26,1 | 7  |
| 12 jam |               | 8               | 10   | 13    | 0       | 26,2 | 7  |
| 24 jam |               | 10              | 13   | 17    | 0       | 26,0 | 7  |

## Catatan:

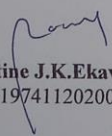
1. Hasil uji ini hanya berlaku untuk contoh uji yang diuji
2. Semua parameter diuji di Laboratorium Entomologi

Pemeriksa

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No : 33/Lab KL/06/2024  
Pengambil : Jeinnifer Priscilla Solet  
Alamat Sampel : Labat  
Jenis Sampel : Jentik Nyamuk  
Jumlah Sampel : 300 Sampel  
Jumlah Parameter Uji : 1 Parameter Uji  
Tanggal Pengambilan : 11 Juni 2024  
Tanggal Pengiriman : 12 Juni 2024  
Tanggal Pemeriksaan : 12-13 Juni 2024  
Jenis pemeriksaan : Spesies Jentik

Juni 2024

**HASIL LABORATORIUM****Hasil Penelitian Perlakuan II. Jentik Anopheles**

| Waktu  | Jumlah jentik | Kematian Jentik |      |       | Kontrol | Suhu | Ph |
|--------|---------------|-----------------|------|-------|---------|------|----|
|        |               | 4 ml            | 7 ml | 10 ml |         |      |    |
| 1 jam  | 25            | 2               | 4    | 5     | 0       | 26,6 | 7  |
| 2 jam  |               | 3               | 6    | 7     | 0       | 26,7 | 7  |
| 4 jam  |               | 5               | 9    | 10    | 0       | 26,9 | 7  |
| 8 jam  |               | 7               | 10   | 13    | 0       | 26,8 | 7  |
| 12 jam |               | 10              | 13   | 17    | 0       | 26,6 | 7  |
| 24 jam |               | 12              | 15   | 21    | 0       | 26,4 | 7  |

## Catatan:

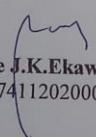
- Hasil uji ini hanya berlaku untuk contoh uji yang diuji
- Semua parameter diuji di Laboratorium Entomologi

Pemeriksa

**Yohana Mayansia Pia Mada A.Md.KL**  
NIP. 198606242010012030

Mengetahui

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Jenis Sampel : Jentik Nyamuk  
Jumlah Sampel : 300 Sampel  
Jumlah Parameter Uji : 1 Parameter Uji  
Tanggal Pengambilan : 11 Juni 2024  
Tanggal Pengiriman : 12 Juni 2024  
Tanggal Pemeriksaan : 12-13 Juni 2024  
Jenis pemeriksaan : Spesies Jentik

Juni 2024

**HASIL LABORATORIUM****Hasil Penelitian Perlakuan III. Jentik Anopheles**

| Waktu  | Jumlah jentik | Kematian Jentik |      |       | Kontrol | Suhu | Ph |
|--------|---------------|-----------------|------|-------|---------|------|----|
|        |               | 4 ml            | 7 ml | 10 ml |         |      |    |
| 1 jam  | 25            | 1               | 3    | 5     | 0       | 26,4 | 7  |
| 2 jam  |               | 2               | 7    | 7     | 0       | 26,7 | 7  |
| 4 jam  |               | 4               | 9    | 10    | 0       | 26,8 | 7  |
| 8 jam  |               | 8               | 10   | 13    | 0       | 26,6 | 7  |
| 12 jam |               | 12              | 15   | 17    | 0       | 26,5 | 7  |
| 24 jam |               | 15              | 18   | 21    | 0       | 26,7 | 7  |

## Catatan:

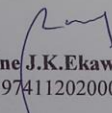
- Hasil uji ini hanya berlaku untuk contoh uji yang diuji
- Semua parameter diuji di Laboratorium Entomologi

Pemeriksa

**Yohana Mayansia Pia Mada A.Md.KL**  
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Mengetahui

PJ. Laboratorium

  
**Dr. Christine J.K. Ekawati, SSi.M.Si**  
NIP.197411202000032002  
**Ketua Prodi Sanitasi**  
**Oktofanus Sila, SKM.M.Sc**  
NIP.197510142000031001

# Lampiran IV : Master Tabel

| Master Tabel Penelitian<br>Jentik <i>Aedes sp</i> |             |              |       |       |       |       |       |       |
|---------------------------------------------------|-------------|--------------|-------|-------|-------|-------|-------|-------|
| Waktu                                             | pengulangan | Jumlahjentik | 4 ml  | %     | 7 ml  | %     | 10 ml | %     |
| 1 Jam                                             | 1           |              | 1     | 4     | 1     | 4     | 2     | 8     |
|                                                   | 2           | 25           | 1     | 4     | 2     | 8     | 4     | 16    |
|                                                   | 3           |              | 2     | 8     | 4     | 16    | 5     | 20    |
|                                                   | Rata-rata   |              | 1,33  | 5,33  | 2,33  | 9,33  | 3,67  | 14,67 |
| 2 Jam                                             | 1           |              | 2     | 8     | 3     | 12    | 3     | 12    |
|                                                   | 2           | 25           | 3     | 12    | 4     | 16    | 6     | 24    |
|                                                   | 3           |              | 3     | 12    | 6     | 24    | 7     | 28    |
|                                                   | Rata-rata   |              | 2,67  | 10,67 | 4,33  | 17,33 | 5,33  | 21,33 |
| 4 Jam                                             | 1           |              | 4     | 16    | 5     | 20    | 5     | 20    |
|                                                   | 2           | 25           | 6     | 24    | 7     | 28    | 9     | 36    |
|                                                   | 3           |              | 5     | 20    | 7     | 28    | 10    | 40    |
|                                                   | Rata-rata   |              | 5     | 20    | 6,33  | 25,33 | 8     | 32    |
| 8 Jam                                             | 1           |              | 6     | 24    | 8     | 32    | 8     | 32    |
|                                                   | 2           | 25           | 7     | 28    | 9     | 36    | 11    | 44    |
|                                                   | 3           |              | 8     | 32    | 9     | 36    | 13    | 52    |
|                                                   | Rata-rata   |              | 7     | 28    | 8,67  | 34,67 | 10,67 | 42,67 |
| 12Jam                                             | 1           |              | 9     | 36    | 12    | 48    | 14    | 56    |
|                                                   | 2           | 25           | 9     | 36    | 10    | 40    | 15    | 60    |
|                                                   | 3           |              | 13    | 52    | 17    | 68    | 16    | 64    |
|                                                   | Rata-rata   |              | 10,33 | 41,33 | 13    | 52    | 15    | 60    |
| 24Jam                                             | 1           |              | 15    | 60    | 19    | 76    | 21    | 84    |
|                                                   | 2           | 25           | 20    | 80    | 22    | 88    | 22    | 88    |
|                                                   | 3           |              | 24    | 96    | 24    | 96    | 24    | 96    |
|                                                   | Rata-rata   |              | 19,67 | 78,67 | 21,67 | 86,67 | 22,33 | 89,33 |

| Master tabel penelitian jentik<br><i>Anopheles</i> |             |              |       |       |       |       |       |       |
|----------------------------------------------------|-------------|--------------|-------|-------|-------|-------|-------|-------|
| Waktu                                              | Pengulangan | Jumlahjentik | 4 ml  | %     | 7 ml  | %     | 10 ml | %     |
| 1 Jam                                              | 1           |              | 1     | 4     | 2     | 8     | 4     | 16    |
|                                                    | 2           | 25           | 2     | 8     | 4     | 16    | 5     | 20    |
|                                                    | 3           |              | 1     | 4     | 3     | 12    | 5     | 20    |
|                                                    | Rata-rata   |              | 1,33  | 5,33  | 3     | 12    | 4,67  | 18,67 |
| 2 Jam                                              | 1           |              | 2     | 8     | 3     | 12    | 6     | 24    |
|                                                    | 2           | 25           | 3     | 12    | 6     | 24    | 7     | 28    |
|                                                    | 3           |              | 2     | 8     | 7     | 28    | 7     | 28    |
|                                                    | Rata-rata   |              | 2,33  | 9,33  | 5,33  | 21,33 | 6,67  | 26,67 |
| 4 Jam                                              | 1           |              | 3     | 12    | 5     | 20    | 8     | 32    |
|                                                    | 2           | 25           | 5     | 20    | 9     | 36    | 10    | 40    |
|                                                    | 3           |              | 4     | 16    | 9     | 36    | 10    | 40    |
|                                                    | Rata-rata   |              | 4     | 16    | 7,67  | 30,67 | 9,33  | 37,33 |
| 8 Jam                                              | 1           |              | 6     | 24    | 7     | 28    | 11    | 44    |
|                                                    | 2           | 25           | 7     | 28    | 10    | 40    | 13    | 52    |
|                                                    | 3           |              | 8     | 32    | 12    | 48    | 13    | 52    |
|                                                    | Rata-rata   |              | 7     | 28    | 9,67  | 38,67 | 12,33 | 49,33 |
| 12 Jam                                             | 1           |              | 8     | 32    | 10    | 40    | 13    | 52    |
|                                                    | 2           | 25           | 12    | 48    | 13    | 52    | 17    | 68    |
|                                                    | 3           |              | 15    | 60    | 15    | 60    | 17    | 68    |
|                                                    | Rata-rata   |              | 11,67 | 46,67 | 12,67 | 50,67 | 15,67 | 62,67 |
| 24 Jam                                             | 1           |              | 16    | 64    | 18    | 72    | 18    | 72    |
|                                                    | 2           | 25           | 18    | 72    | 20    | 80    | 23    | 92    |
|                                                    | 3           |              | 22    | 88    | 23    | 92    | 24    | 96    |
|                                                    | Rata-rata   |              | 18,67 | 74,67 | 20,33 | 81,33 | 21,67 | 86,67 |

## Lampiran V: Hasil Analisis Statistik Ekstrak Biji Pepaya Dosis 4 ml, 7 ml, dan 10 ml Terhadap Kematian Jentik *Aedes sp* dan *Anopheles sp*

|    | Name      | Type    | Width | Decimals | Label                               | Values | Missing | Columns | Align | Measure | Role  |
|----|-----------|---------|-------|----------|-------------------------------------|--------|---------|---------|-------|---------|-------|
| 1  | ekstrak   | Numeric | 8     | 0        | ekstrak biji pepaya (1, dosis 4 ml) | None   | None    | 8       | Right | Scale   | Input |
| 2  | aedes     | Numeric | 8     | 0        | kematian jentik Aedes sp            | None   | None    | 8       | Right | Scale   | Input |
| 3  | anopheles | Numeric | 8     | 0        | kematian jentik Anopheles sp        | None   | None    | 8       | Right | Scale   | Input |
| 4  |           |         |       |          |                                     |        |         |         |       |         |       |
| 5  |           |         |       |          |                                     |        |         |         |       |         |       |
| 6  |           |         |       |          |                                     |        |         |         |       |         |       |
| 7  |           |         |       |          |                                     |        |         |         |       |         |       |
| 8  |           |         |       |          |                                     |        |         |         |       |         |       |
| 9  |           |         |       |          |                                     |        |         |         |       |         |       |
| 10 |           |         |       |          |                                     |        |         |         |       |         |       |
| 11 |           |         |       |          |                                     |        |         |         |       |         |       |
| 12 |           |         |       |          |                                     |        |         |         |       |         |       |
| 13 |           |         |       |          |                                     |        |         |         |       |         |       |
| 14 |           |         |       |          |                                     |        |         |         |       |         |       |
| 15 |           |         |       |          |                                     |        |         |         |       |         |       |
| 16 |           |         |       |          |                                     |        |         |         |       |         |       |
| 17 |           |         |       |          |                                     |        |         |         |       |         |       |
| 18 |           |         |       |          |                                     |        |         |         |       |         |       |
| 19 |           |         |       |          |                                     |        |         |         |       |         |       |
| 20 |           |         |       |          |                                     |        |         |         |       |         |       |
| 21 |           |         |       |          |                                     |        |         |         |       |         |       |
| 22 |           |         |       |          |                                     |        |         |         |       |         |       |

|    | ekstrak | aedes | anopheles |
|----|---------|-------|-----------|
| 1  | 1       | 1     | 2         |
| 2  | 1       | 2     | 3         |
| 3  | 1       | 4     | 5         |
| 4  | 1       | 6     | 8         |
| 5  | 1       | 9     | 13        |
| 6  | 1       | 12    | 13        |
| 7  | 1       | 12    | 4         |
| 8  | 1       | 17    | 6         |
| 9  | 1       | 14    | 7         |
| 10 | 1       | 20    | 9         |
| 11 | 1       | 11    | 17        |
| 12 | 1       | 11    | 17        |
| 13 | 1       | 10    | 5         |
| 14 | 1       | 15    | 7         |
| 15 | 1       | 15    | 10        |
| 16 | 1       | 22    | 13        |
| 17 | 1       | 13    | 16        |
| 18 | 1       | 13    | 24        |
| 19 | 2       | 13    | 1         |
| 20 | 2       | 17    | 2         |

IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Graphs Utilities Extensions Window Help

Visible: 3 of 3 Variables

|    | ekstrak | aedes | anopheles | var | var | var | var | var | var | var | var | var | var | var | var | var |
|----|---------|-------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 19 | 2       | 13    | 1         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 20 | 2       | 17    | 2         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 21 | 2       | 17    | 3         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 22 | 2       | 16    | 6         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 23 | 2       | 24    | 8         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 24 | 2       | 10    | 10        |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 25 | 2       | 9     | 2         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 26 | 2       | 8     | 3         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 27 | 2       | 7     | 5         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 28 | 2       | 6     | 7         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 29 | 2       | 4     | 10        |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 30 | 2       | 2     | 13        |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 31 | 2       | 3     | 4         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 32 | 2       | 9     | 6         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 33 | 2       | 9     | 8         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 34 | 2       | 9     | 11        |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 35 | 2       | 6     | 13        |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 36 | 2       | 7     | 17        |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 37 | 3       | 6     | 2         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 38 | 3       | 7     | 3         |     |     |     |     |     |     |     |     |     |     |     |     |     |

Data View Variable View

IBM SPSS Statistics Process is ready. | Unlocked VOM | 19.41 13/07/2024

IBM SPSS Statistics Data Editor

File Edit View Data Transform Analyze Graphs Utilities Extensions Window Help

Visible: 3 of 3 Variables

|    | ekstrak | aedes | anopheles | var | var | var | var | var | var | var | var | var | var | var | var | var |
|----|---------|-------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 37 | 3       | 6     | 2         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 38 | 3       | 7     | 3         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 39 | 3       | 6     | 5         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 40 | 3       | 4     | 7         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 41 | 3       | 4     | 10        |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 42 | 3       | 3     | 12        |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 43 | 3       | 2     | 4         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 44 | 3       | 1     | 6         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 45 | 3       | 8     | 9         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 46 | 3       | 5     | 13        |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 47 | 3       | 3     | 15        |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 48 | 3       | 2     | 21        |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 49 | 3       | 8     | 17        |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 50 | 3       | 3     | 13        |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 51 | 3       | 5     | 10        |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 52 | 3       | 1     | 13        |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 53 | 3       | 4     | 7         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 54 | 3       | 1     | 5         |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 55 |         |       |           |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 56 |         |       |           |     |     |     |     |     |     |     |     |     |     |     |     |     |

Data View Variable View

IBM SPSS Statistics Process is ready. | Unlocked VOM | 19.41 13/07/2024

## Uji Anova Ekstrak Biji Pepaya Dosis 4 ml, 7 ml, dan 10 ml Terhadap Kematian Jentik *Aedes sp* dan *Anopheles sp*

### Uji Anova Jentik *Aedes Sp*

#### ANOVA

kematian jentik aedes sp

|                | Sum of Squares | df | Mean Square | F      | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 546,778        | 2  | 273,389     | 11,830 | ,000 |
| Within Groups  | 1178,556       | 51 | 23,109      |        |      |
| Total          | 1725,333       | 53 |             |        |      |

#### Multiple Comparisons

Dependent Variable: kematian jentik aedes sp

LSD

| (I) ekstrak biji pepaya | (J) ekstrak biji pepaya | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval Bound |       |
|-------------------------|-------------------------|-----------------------|------------|------|-------------------------------|-------|
| dosis 4 ml              | dosis 7 ml              | 1,722                 | 1,602      | ,288 | -1,49                         | 4,94  |
|                         | dosis 10 ml             | 7,444*                | 1,602      | ,000 | 4,23                          | 10,66 |
| dosis 7 ml              | dosis 4 ml              | -1,722                | 1,602      | ,288 | -4,94                         | 1,49  |
|                         | dosis 10 ml             | 5,722*                | 1,602      | ,001 | 2,51                          | 8,94  |
| dosis 10 ml             | dosis 4 ml              | -7,444*               | 1,602      | ,000 | -10,66                        | -4,23 |
|                         | dosis 7 ml              | -5,722*               | 1,602      | ,001 | -8,94                         | -2,51 |

\*. The mean difference is significant at the 0.05 level.

### Uji Anova Jentik *Anopheles Sp*

#### ANOVA

anopheles

|                | Sum of Squares | df | Mean Square | F     | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 349,481        | 2  | 174,741     | 8,227 | ,001 |
| Within Groups  | 1083,278       | 51 | 21,241      |       |      |
| Total          | 1432,759       | 53 |             |       |      |

### Multiple Comparisons

Dependent Variable: anopheles

LSD

| (I) ekstrak biji<br>pepaya | (J) ekstrak biji<br>pepaya | Mean<br>Difference<br>(I-J) | Std.<br>Error | Sig. | 95% Confidence Interval |                |
|----------------------------|----------------------------|-----------------------------|---------------|------|-------------------------|----------------|
|                            |                            |                             |               |      | Lower<br>Bound          | Upper<br>Bound |
| dosis 4 ml                 | dosis 7 ml                 | ,333                        | 1,536         | ,829 | -2,75                   | 3,42           |
|                            | dosis 10 ml                | -5,222*                     | 1,536         | ,001 | -8,31                   | -2,14          |
| dosis 7 ml                 | dosis 4 ml                 | -,333                       | 1,536         | ,829 | -3,42                   | 2,75           |
|                            | dosis 10 ml                | -5,556*                     | 1,536         | ,001 | -8,64                   | -2,47          |
| dosis 10 ml                | dosis 4 ml                 | 5,222*                      | 1,536         | ,001 | 2,14                    | 8,31           |
|                            | dosis 7 ml                 | 5,556*                      | 1,536         | ,001 | 2,47                    | 8,64           |

\*. The mean difference is significant at the 0.05 level.

## Lampiran VI : Surat Keterangan Telah Selesai Penelitian



**Kementerian Kesehatan**  
**Poltekkes Kupang**

📍 Jalan Piet A. Tallo, Liliba, Oebobo,  
Kupang, Nusa Tenggara Timur 85111  
☎ (0380) 8800256  
🌐 <https://poltekkeskupang.ac.id>

**SURAT KETERANGAN TELAH SELESAI PENELITIAN**  
**NOMOR : PP.07.01/F.XXXVII.22/ 313 /2024**

Yang bertanda tangan di bawah ini:

Nama : Oktofianus Sila, SKM.M.Sc  
NIP : NIP 197510142000031001  
Jabatan : Ketua Jurusan Sanitasi

Dengan ini menerangkan bahwa mahasiswa:

Nama : Jeinnifer Priscilla Solet  
NIM : PO5303330210916  
Program Studi : Sanitasi

Telah selesai melakukan penelitian di Laboratorium Entomologi Prodi Sanitasi Poltekkes Kemenkes Kupang, pada tanggal 13 Juni 2024 untuk memperoleh data dalam rangka penyusunan tugas akhir Prodi D3 Sanitasi.

Demikian surat keterangan ini dibuat dan diberikan kepada yang bersangkutan untuk dipergunakan seperlunya.



Oktofianus Sila, SKM.M.Sc  
NIP 197510142000031001

## Lampiran VII: Sarat Konsultasi Bimbingan



**KEMENTERIAN KESEHATAN REPUBLIK INDONESIA**  
**BADAN PENGEMBANGAN DAN PEMBERDAYAAN**  
**SUMBER DAYA MANUSIA KESEHATAN**  
**POLITEKNIK KESEHATAN KUPANG**  
**PROGRAM STUDI SANITASI**

Direktorat: Jln. Piet A. Tallo Liliba - Kupang, Telp.: (0380) 8800256  
Fax (0380) 8800256; Email: poltekkeskupang@yahoo.com



### LEMBAR ASISTENSI PROPOSAL DAN TUGAS AKHIR

(Minimal 10 kali)

Nama : JENNIFER PRISCILLA SOLET  
NIM : P0530330210916  
Judul TA : UJI EFEKTIVITAS EKSTRAK Biji Pepaya (Carica papaya)  
TERHADAP KEMATIAN JENTIK Aedes sp dan Anopheles sp.  
Dosen Pembimbing : Oktofianus Sila, SKM., M.Sc.

| No | Tanggal         | Uraian Bimbingan                    | Tandatangan Pembimbing |
|----|-----------------|-------------------------------------|------------------------|
| 1  | 03 Desember 23  | Pengajuan judul                     |                        |
| 2  | 15 Januari 2024 | Konsultasi Bab 1                    |                        |
| 3  | 17 Januari 2024 | Konsultasi Bab 2                    |                        |
| 4  | 18 Januari 2024 | Konsultasi Bab 3                    |                        |
| 5  | 19 Januari 2024 | Konsultasi perbaikan                |                        |
| 6  | 16 Juni 2024    | Konsultasi Hari 1                   |                        |
| 7  | 18 Juni 2024    | Konsultasi perbaikan Hari 1         |                        |
| 8  | 19 Juni 2024    | Konsultasi perbaikan                |                        |
| 9  | 21 Juni 2024    | Konsultasi perbaikan                |                        |
| 10 | 25 Juni 2024    | Konsultasi perbaikan nama pengantar |                        |
| 11 | 01 Juli 2024    | Konsultasi Revisi                   |                        |
| 12 |                 |                                     |                        |

Kupang,  
Ketua Program Studi,

Oktofianus Sila, SKM., M.Sc.  
NIP 19751014200031001