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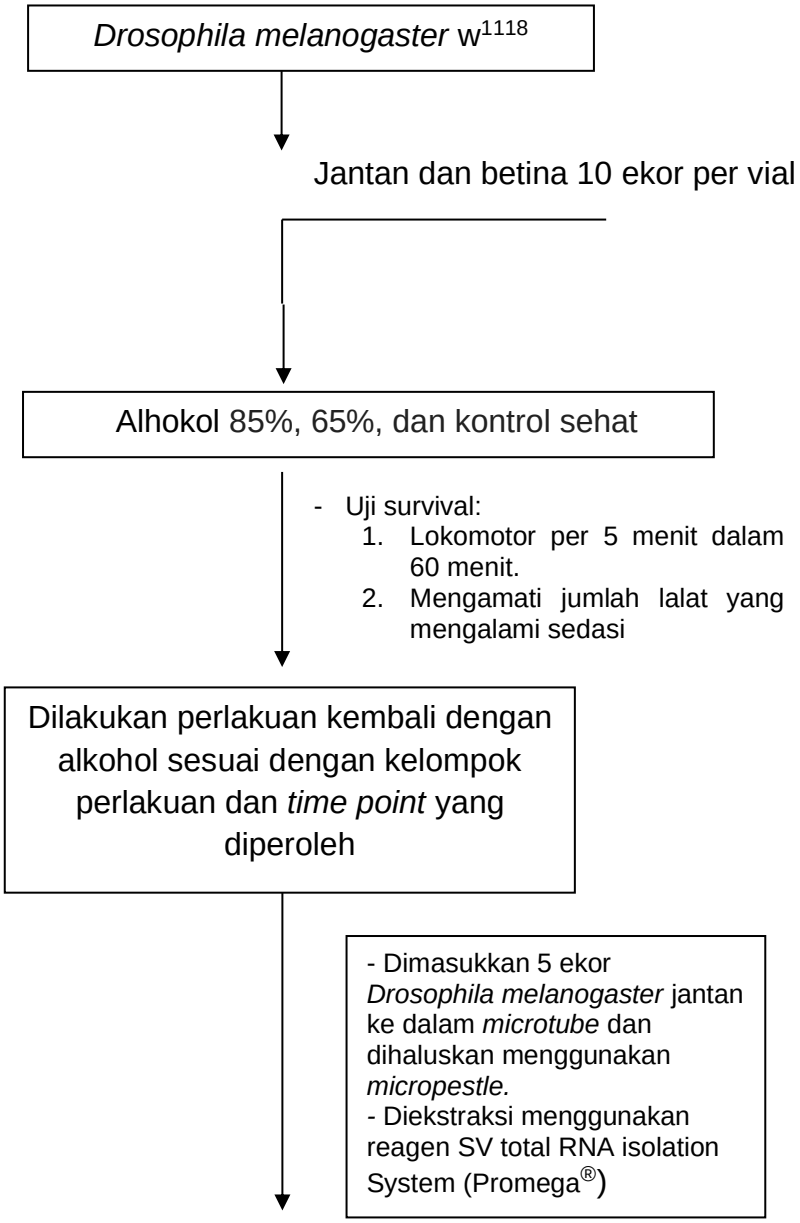
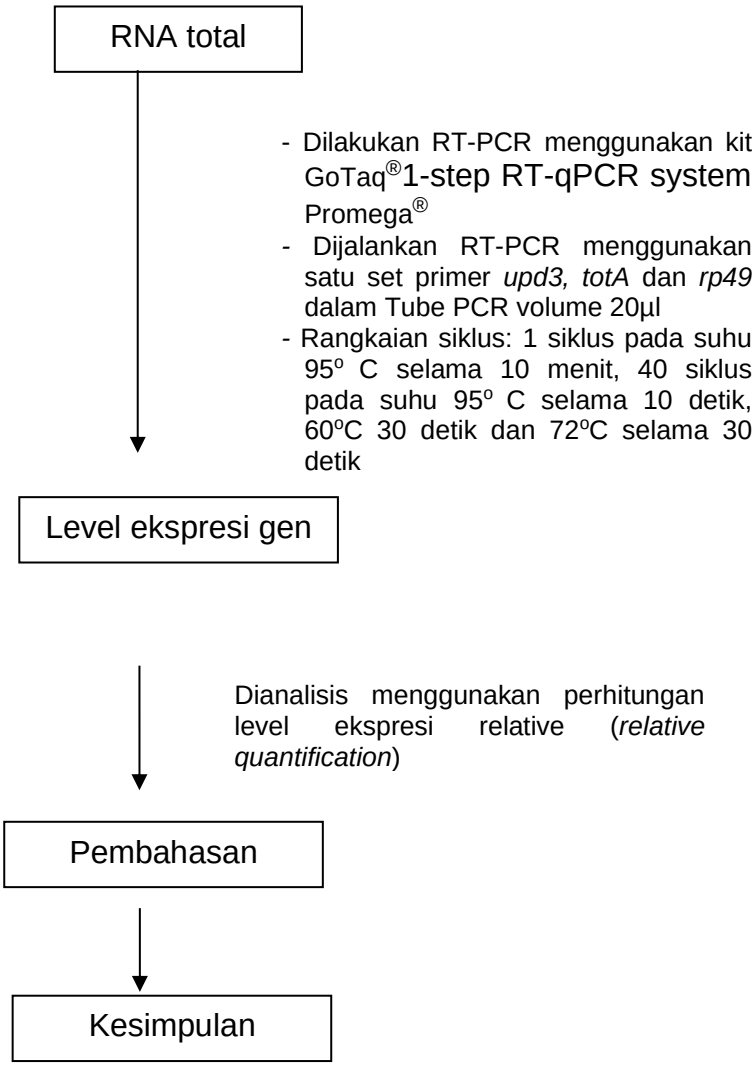
## LAMPIRAN

### Lampiran 1. Skema Kerja

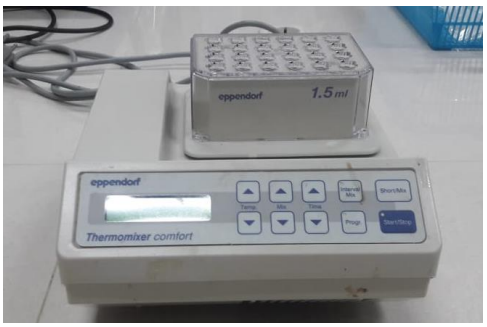


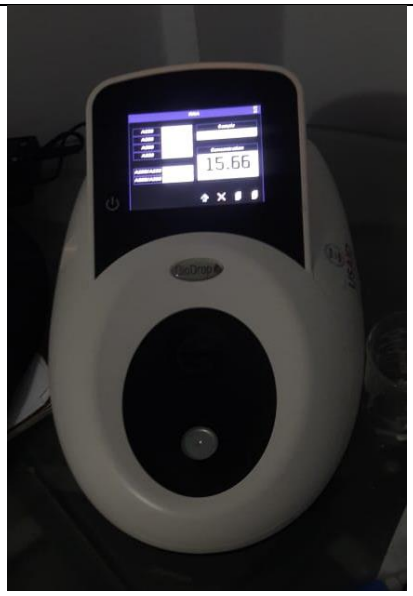

RNA total
- Dilakukan RT-PCR menggunakan kit GoTaq®1-step RT-qPCR system Promega®
- Dijalankan RT-PCR menggunakan satu set primer *upd3, totA* dan *rp49* dalam Tube PCR volume 20µl
- Rangkaian siklus: 1 siklus pada suhu 95° C selama 10 menit, 40 siklus pada suhu 95° C selama 10 detik, 60°C 30 detik dan 72°C selama 30 detik
Level ekspresi gen
Dianalisis menggunakan perhitungan level ekspresi relative (*relative quantification*)
Pembahasan
Kesimpulan

**Lampiran 2. Komposisi Pakan**

| **Bahan** | **Jumlah** |
|---|---|
| Tepung jagung | 75 gram |
| Ragi | 25 gram |
| Agar-Agar | 9 gram |
| Gula Pasir | 45 gram |
| Metil Paraben | 4,3 mL |
| Asam propionat | 3,8 mL |

## Lampiran 3. Dokumentasi Penelitian

<table>
<tr><td> 
</td><td>  </td></tr>
<tr><td>Gambar 15. BSC</td><td>Gambar 16. Mikroskop yang digunakan dalam pemisahan antara lalat jantan dan betina</td></tr>
<tr><td>  </td><td> 
</td></tr>
<tr><td>Gambar 17. Gas yang digunakan dalam proses pembiusan Drosophila melanogaster</td><td>Gambar 18 Thermoblock, alat yang digunakan pada proses pemanasan dalam isolasi RNA</td></tr>
</table>




**Gambar 19. Alat yang digunakan untuk mengukur konsentrasi RNA**


**Gambar 20. *Freezer* yang digunakan untuk mengukur menyimpan bahan isolasi RNA an PCR**


**Gambar 21. *Freezer* yang digunakan untuk menyimpan sampel RNA**

## Lampiran 4. Hasil Pengukuran Konsentrasi RNA

**Tabel 3 Hasil pengukuran konsentrasi RNA menggunakan sampel lama (kontrol sehat, *D. melanogaster* yang dipaparkan etanol pada konsentrasi 86% dan 65)**

| SAMPEL LAMA | | | | | |
|---|---|---|---|---|---|
| **No.** | Sampel | Parameter | Rep I | Rep II | Rep III |
| **1** | Kontrol Sehat | Konsentrasi (ng/µL) | 3,127 | 3,285 | 3,27 |
| | | A230/260 | 1,73 | 1,707 | 1,712 |
| | | A260/280 | 2,161 | 2,099 | 2,11 |
| **2** | 85% (Jantan) | Konsentrasi (ng/µL) | 7,129 | 7,04 | 7,029 |
| | | A230/260 | 1,219 | 1,239 | 1,249 |
| | | A260/280 | 2,091 | 2,147 | 2,177 |
| **3** | 65% (Jantan) | Konsentrasi (ng/µL) | 2,974 | 3,008 | 3,082 |
| | | A230/260 | 0,613 | 0,61 | 0,616 |
| | | A260/280 | 2,165 | 2,199 | 2,198 |
| **4** | Kontrol sehat (Betina) | Konsentrasi (ng/µL) | 14,16 | 13,2 | 13,12 |
| | | A230/260 | 2,494 | 2,462 | 2,498 |
| | | A260/280 | 2,186 | 2,199 | 2,199 |
| **5** | 85% (Betina) | Konsentrasi (ng/µL) | 14,87 | 16,15 | 15,76 |
| | | A230/260 | 2,465 | 2,42 | 2,463 |
| | | A260/280 | 2,202 | 2,209 | 2,214 |
| **6** | 65 % (Betina) | Konsentrasi (ng/µL) | 7,462 | 7,76 | 8,069 |
| | | A230/260 | 2,131 | 2,109 | 2,175 |
| | | A260/280 | 2,206 | 2,204 | 2,223 |

**Tabel 5 Hasil pengukuran konsentrasi RNA menggunakan sampel baru (kontrol sehat, *D. melanogaster* yang dipaparkan etanol pada konsentrasi 86% dan 65)**

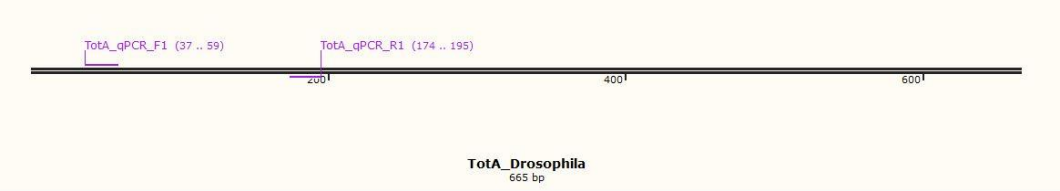
| SAMPEL BARU | | | | | |
|---|---|---|---|---|---|
| **No.** | Sampel | Parameter | Rep I | Rep II | Rep III |
| **1** | Kontrol Sehat | Konsentrasi (ng/µL) | 2,681 | 2,778 | 2,807 |
| | | A230/260 | 2,16 | 2,14 | 2,251 |
| | | A260/280 | 2,232 | 2,208 | 2,251 |
| **2** | 85% (Jantan) | Konsentrasi (ng/µL) | 3,171 | 3,14 | 3,212 |
| | | A230/260 | 2,127 | 2,212 | 2,212 |
| | | A260/280 | 2,185 | 2,212 | 2,212 |
| **3** | 65% (Jantan) | Konsentrasi (ng/µL) | 2,395 | 2,395 | 2,497 |
| | | A230/260 | 1,821 | 1,84 | 1,813 |
| | | A260/280 | 2,228 | 2,288 | 2,276 |
| **4** | Kontrol sehat (Betina) | Konsentrasi (ng/µL) | 5,558 | 5,521 | 5,558 |
| | | A230/260 | 2,484 | 2,464 | 2,483 |
| | | A260/280 | 2,207 | 2,225 | 2,243 |
| **5** | 85% (Betina) | Konsentrasi (ng/µL) | 14,48 | 15,08 | 14,72 |
| | | A230/260 | 2,551 | 2,496 | 2,487 |
| | | A260/280 | 2,222 | 2,204 | 2,204 |
| **6** | 65 % (Betina) | Konsentrasi (ng/µL) | 9,389 | 10,34 | 10,23 |
| | | A230/260 | 2,33 | 2,339 | 2,289 |
| | | A260/280 | 2,199 | 2,2 | 2,19 |

## Lampiran 5. Lokasi Primer

1. **Primer TotA**

   TotA-qPCR-F: 5’-CCAAAATGAATTCTTCAACTGCT-3’

   TotA-qPCR-R: 5’-GAATAGCCCATGCATAGAGGAC-3’




2. **Primer Upd3**

   upd3-qPCR-F: 5’-ACTGGGAGAACACCTGCAAT-3’

   upd3-qPCR-R: 5’- GCCCGTTTGGTTCTGTAGAT-3’