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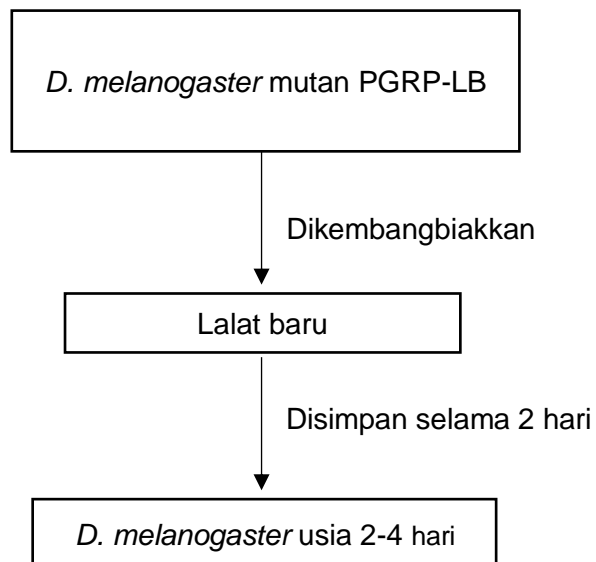
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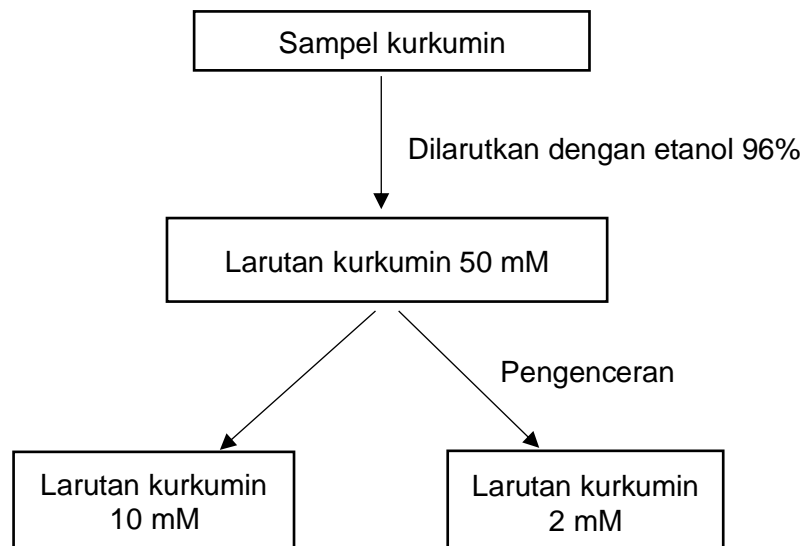
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LAMPIRAN

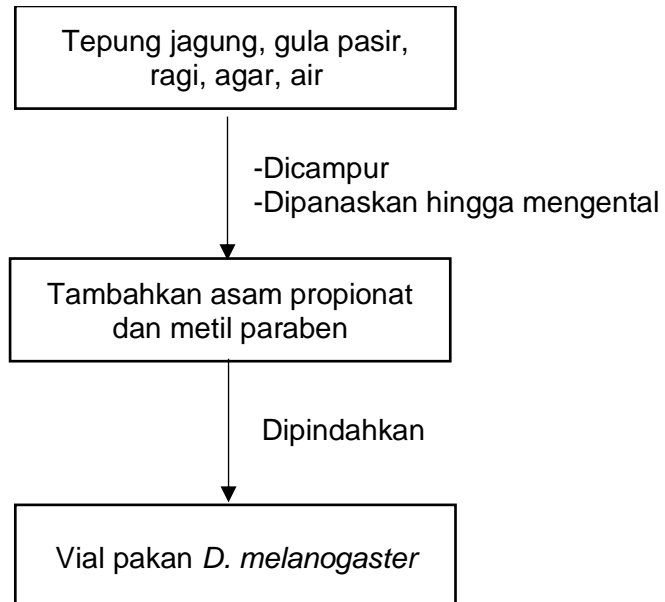
Lampiran 1. Penyiapan hewan uji



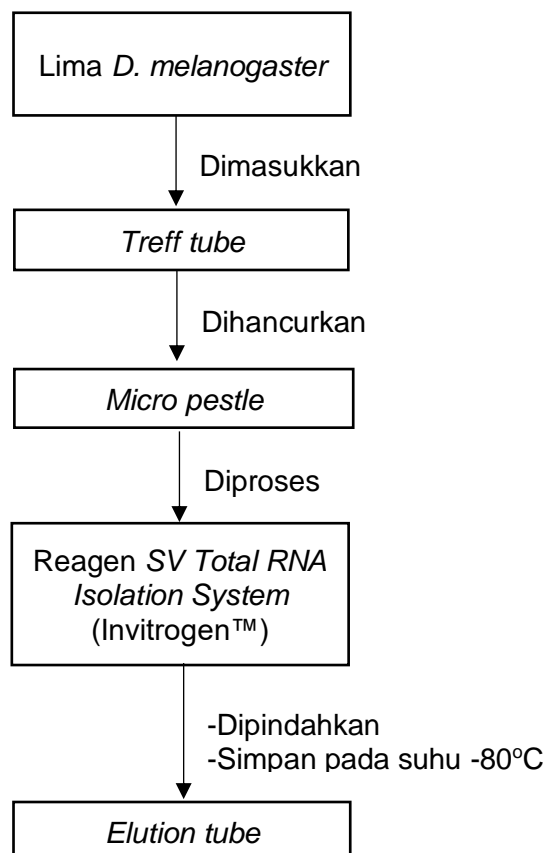
Lampiran 2. Penyiapan sampel



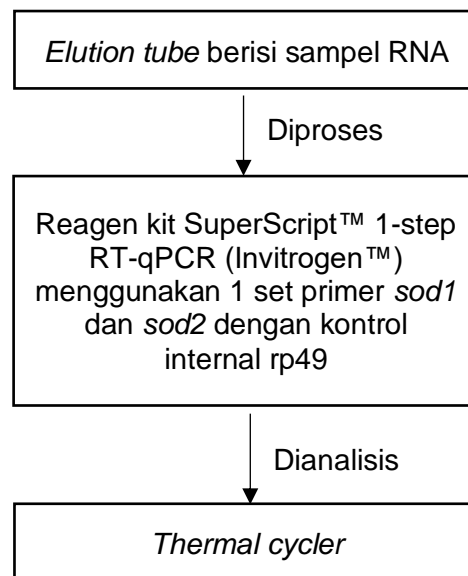
Lampiran 3. Penyiapan pakan



Lampiran 4. Penyiapan sampel RNA



Lampiran 5. Pengujian dengan PCR



Lampiran 6. Pembuatan larutan kurkumin

Dibuat larutan stok dengan konsentrasi 50 mM (50×10^{-3} M)

$$M = \frac{g}{Mr} \times \frac{1000}{ml}$$

$$50 \times 10^{-3} = \frac{g}{368,4} \times \frac{1000}{10}$$

$$g = 0,1842 \text{ gram (ad 10 ml EtOH 96\%)}$$

Dibuat pengenceran dengan konsentrasi 10 mM

$$N_1 \times V_1 = N_2 \times V_2$$

$$50 \times V_1 = 10 \times 1 \text{ ml}$$

$$V_1 = 0,2 \text{ ml}$$

$$V_1 = 200 \mu\text{l (larutan kurkumin 50 mM, ad 1 ml etOH 96\%)}$$

Dibuat pengenceran dengan konsentrasi 2 mM

$$N_1 \times V_1 = N_2 \times V_2$$

$$50 \times V_1 = 2 \times 1 \text{ ml}$$

$$V_1 = 0,04 \text{ ml}$$

$$V_1 = 40 \mu\text{l (larutan kurkumin 50 mM, ad 1 ml etOH 96%)}$$

Lampiran 7. Pembuatan pakan *Drosophila***Dibuat pakan *Drosophila* dengan konsentrasi kurkumin 250 μM**

$$250 \mu\text{M} = 250 \times 10^{-3} \text{ mM}$$

$$N_1 \times V_1 = N_2 \times V_2$$

$$50 \times V_1 = 250 \times 10^{-3} \times 5 \text{ ml}$$

$$V_1 = 25 \times 10^{-3} \text{ ml}$$

$$V_1 = 25 \mu\text{l (dari larutan kurkumin 50 mM, ad 5 ml pakan)}$$

Dibuat pakan *Drosophila* dengan konsentrasi kurkumin 50 μM

$$50 \mu\text{M} = 50 \times 10^{-3} \text{ mM}$$

$$N_1 \times V_1 = N_2 \times V_2$$

$$10 \times V_1 = 50 \times 10^{-3} \times 5 \text{ ml}$$

$$V_1 = 25 \times 10^{-3} \text{ ml}$$

$$V_1 = 25 \mu\text{l (dari larutan kurkumin 10 mM, ad 5 ml pakan)}$$

Dibuat pakan *Drosophila* dengan konsentrasi kurkumin 10 μM

$$10 \mu\text{M} = 10 \times 10^{-3} \text{ mM}$$

$$N_1 \times V_1 = N_2 \times V_2$$

$$2 \times V_1 = 10 \times 10^{-3} \times 5 \text{ ml}$$

$$V_1 = 25 \times 10^{-3} \text{ ml}$$

$$V_1 = 25 \text{ } \mu\text{l (dari larutan kurkumin 2 mM, ad 5 ml pakan)}$$

Lampiran 8. Data statistik

Tabel 2. Hasil *one-way Anova* ekspresi gen *sod1*

<i>ANOVA summary</i>	<i>Value</i>
F	3,442
P value	0,1318
P value summary	ns
Significant diff. among means (P < 0.05)?	No
R squared	0,7208

Tabel 3. Hasil uji lanjutan *Dunnett* ekspresi gen *sod1*

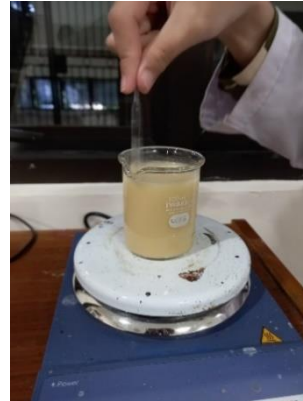
<i>Dunnett's Multiple Comparisons Test</i>	<i>Mean Diff</i>	<i>Summary</i>	<i>Adjusted P Value</i>
Tanpa Perlakuan vs. Kurkumin 10 μM	-2,430	ns	0,1314
Tanpa Perlakuan vs. Kurkumin 50 μM	-1,065	ns	0,5853
Tanpa Perlakuan vs. Kurkumin 250 μM	-2,620	ns	0,1075

Tabel 4. Hasil *one-way Anova* ekspresi gen *sod2*

<i>ANOVA summary</i>	<i>Value</i>
F	2,326
P value	0,2163
P value summary	ns
Significant diff. among means (P < 0.05)?	No
R squared	0,6356

Tabel 5. Hasil uji lanjutan *Dunnett* ekspresi gen *sod2*

<i>Dunnett's Multiple Comparisons Test</i>	<i>Mean Diff</i>	<i>Summary</i>	<i>Adjusted P Value</i>
Tanpa Perlakuan vs. Kurkumin 10 μM	-0,7950	ns	0,1637
Tanpa Perlakuan vs. Kurkumin 50 μM	-0,5300	ns	0,3751
Tanpa Perlakuan vs. Kurkumin 250 μM	-0,7350	ns	0,1971

Lampiran 9. Gambar penelitian**Gambar 13. Penyiapan hewan uji****Gambar 14. Pembuatan pakan****Gambar 15. Isolasi RNA****Gambar 16. Running real time PCR**