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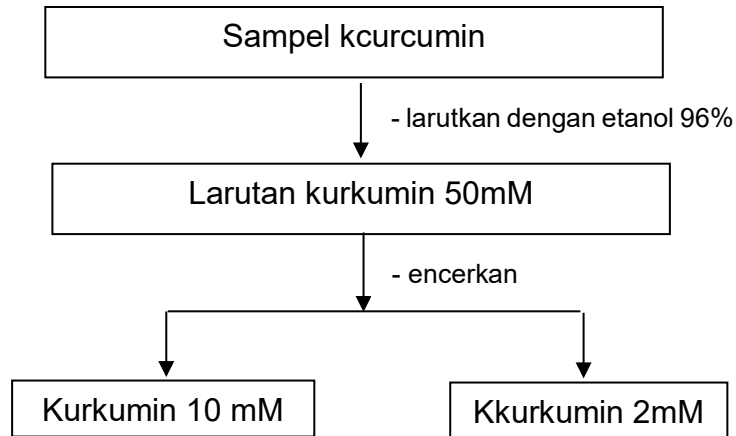
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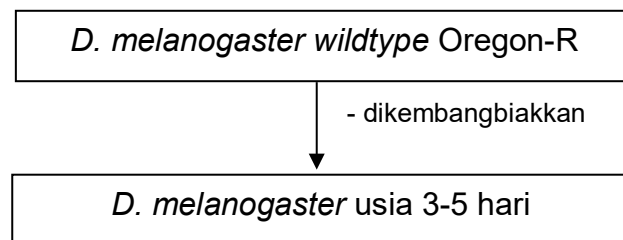
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LAMPIRAN

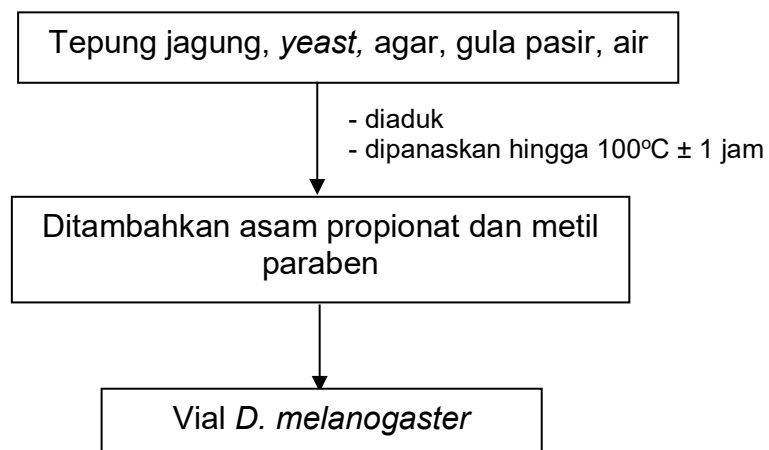
Lampiran 1. Preparasi sampel

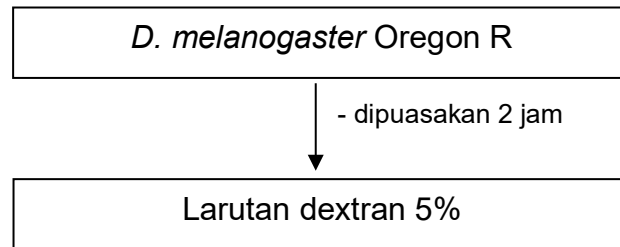
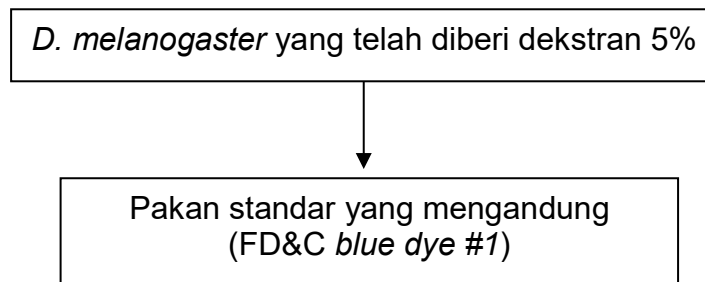
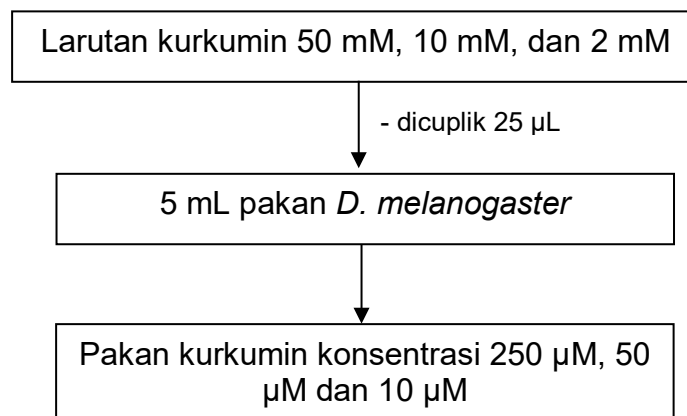


Lampiran 2. Penyiapan Hewan Uji

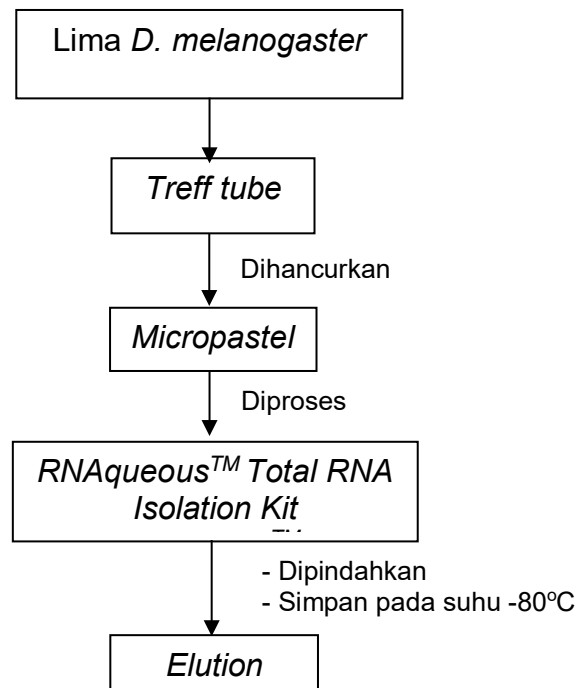


Lampiran 3. Pembuatan Pakan

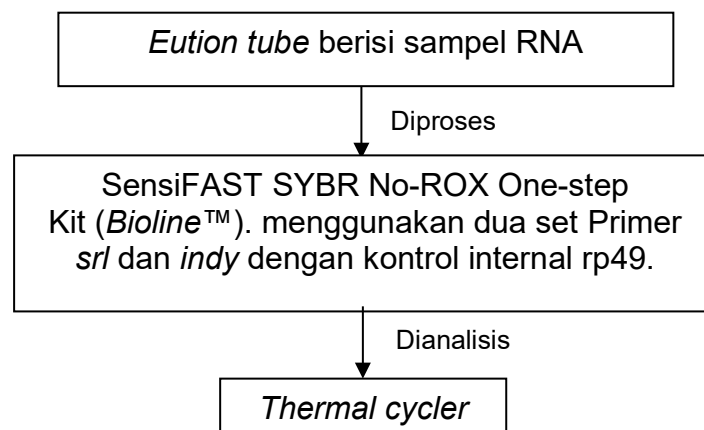


Lampiran 4. Pengujian Dekstran**Lampiran 5. Pengujian Smurf****Lampiran 6. Penyiapan Pakan Pengujian**

Lampiran 7. Penyiapan Sampel RNA



Lampiran 8. Analisis Ekspresi Gen



Lampiran 9. Perhitungan Pengenceran Kurkumin

Pembuatan Larutan kurkumin 50 mM (50×10^{-3} M)

$$M = \frac{m}{MR} \times \frac{1000}{ml}$$

$$50 \times 10^{-3} = \frac{m}{368,38} \times \frac{1000}{1}$$

$$m = 0,018419 \text{ gram (ad 1 ml EtOH 96\%)}$$

Dibuat pengenceran dengan konsentrasi 10 mM :

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

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

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

$$V_1 = 200 \mu\text{l (larutan kurkumin 10 mM, ad 1 ml etOH 96\%)}$$

Dibuat pengenceran dengan konsentrasi 2 mM :

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

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

$$V_1 = 0.04 \text{ ml}$$

$$V_1 = 40 \mu\text{l (Larutan kurkumin 2 mM, ad 1 ml EtOH 96\%)}$$

Pembuatan pakan Drosophila yang mengandung Kurkumin dengan

Konsentrasi 250 μM

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

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

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

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

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

Pembuatan pakan Drosophila yang mengandung kurkumin dengan konsentrasi 50 μM

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

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

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

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

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

Pembuatan pakan Drosophila yang mengandung kurkumin dengan konsentrasi 10 μM

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

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

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

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

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

Lampiran 10. Data Statistik

Tabel 2. Hasil one-way anova ekspresi gen *pepck*

ANOVA summary	Value
F	5,005
P Value	0,0536
P Value summary	ns
Significant diff among means (P<0,05)?	No
R square	0,8002

Tabel 3. Hasil uji lanjutan *Tukey's Multiple Comparison Test* ekspresi gen *pepck*

Tukey's Multiple Comparison Test	Mean Diff	Summary	Adjusted P Value
Kontrol tanpa perlakuan vs pelarut	-0,2155	ns	4,090
Kontrol tanpa perlakuan vs Kurkumin 250 μM	-0,2625	ns	4,982
Kontrol tanpa perlakuan vs Kurkumin 50 μM	-0,05400	ns	1,025
Kontrol tanpa perlakuan vs Kurkumin 10 μM	-0,03250	ns	0,6168
Kontrol Pelarut vs Kurkumin 250 μM	-0,04700	ns	0,8920
Kontrol Pelarut vs Kurkumin 50 μM	0,1615	ns	3,065
Kontrol Pelarut vs Kurkumin 10 μM	0,1830	ns	3,473
Kurkumin 250 μM vs Kurkumin 50 μM	0,2085	ns	3,957
Kurkumin 250 μM vs Kurkumin 10 μM	0,2300	ns	4,365
Kurkumin 50 μM vs Kurkumin 10 μM	0,02150	ns	0,4080

Tabel 4. Hasil *one-way anova* ekspresi gen *cat*

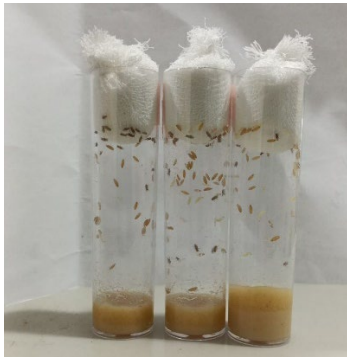
ANOVA summary	Value
F	5,338
P Value	0,0475
P Value summary	*
Significant diff among means ($P < 0,05$)?	Yes
R square	0,8103

Tabel 5. Hasil uji lanjutan *Tukey's Multiple Comparison* ekspresi gen *cat*

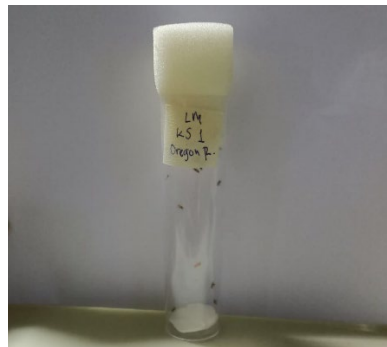
Tukey's Multiple Comparison Test	Mean Diff	Summary	Adjusted P Value
Kontrol Pelarut vs. Tanpa Perlakuan	0,03350	ns	0,3771
Kontrol tanpa perlakuan vs Kurkumin 250 μM	-0,3315	ns	5,277
Kontrol tanpa perlakuan vs Kurkumin 50 μM	-0,1455	ns	2,316
Kontrol tanpa perlakuan vs Kurkumin 10 μM	-0,0715	ns	1,138
Kontrol Pelarut vs. Kurkumin 250 μM	-0,3650	*	5,810
Kontrol Pelarut vs. Kurkumin 50 μM	-0,1790	ns	2,850
Kontrol Pelarut vs. Kurkumin 10 μM	-0,1050	ns	1,672

Kurkumin 250 μ M vs Kurkumin 50 μ M	0,1860	ns	2,961
Kurkumin 250 μ M vs Kurkumin 10 μ M	0,2600	ns	4,139
Kurkumin 50 μ M vs Kurkumin 10 μ M	0,0740	ns	1,178

Lampiran 11. Dokumentasi Penelitian



Gambar 13. Penyiapan hewan uji



Gambar 14. Pengujian dosis dextran



Gambar 15. Pembuatan pakan



Gambar 16. Pembuatan pakan kurkumin



Gambar 17. Isolasi RNA



Gambar 18. Pengujian ekspresi gen