

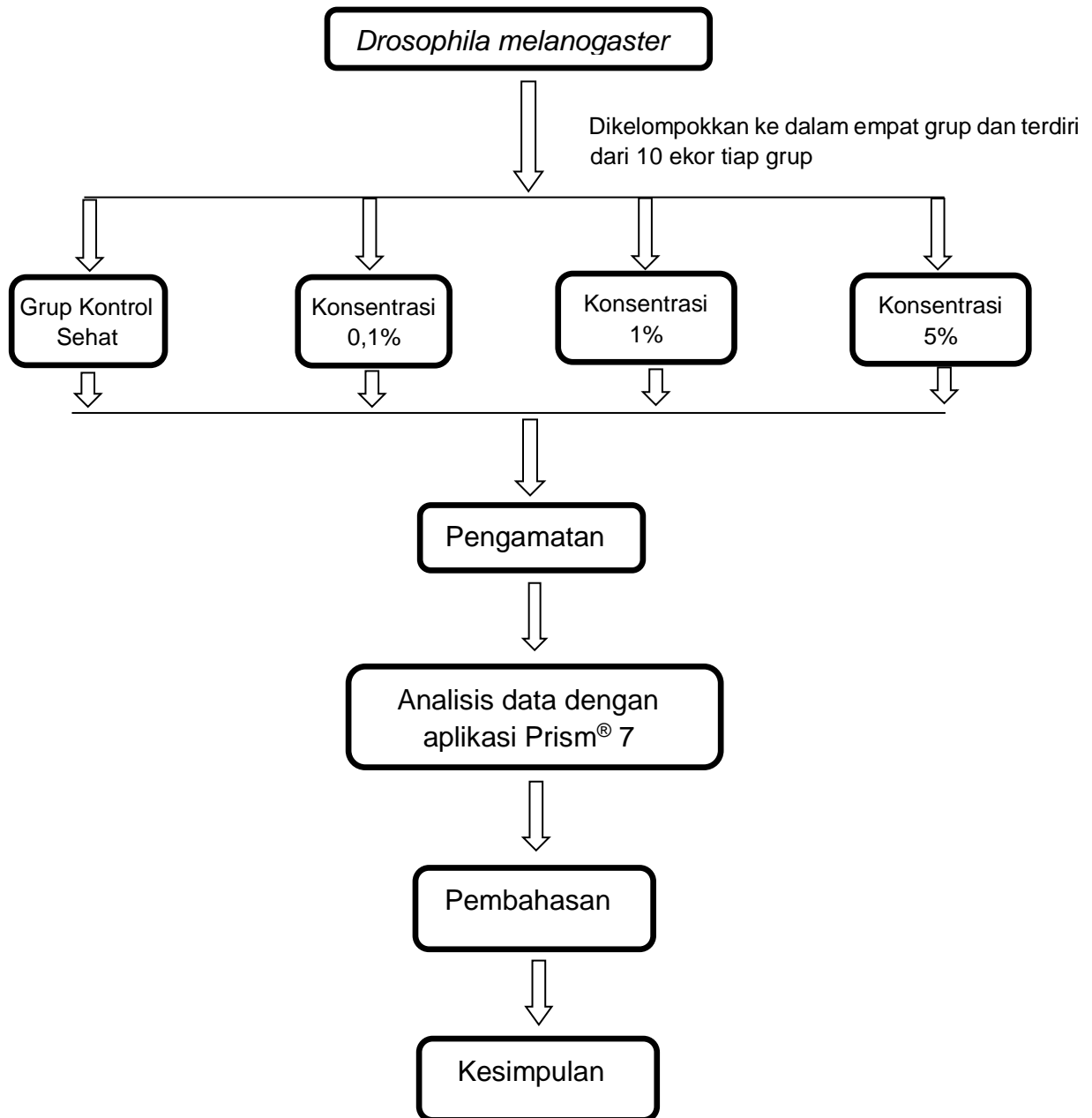
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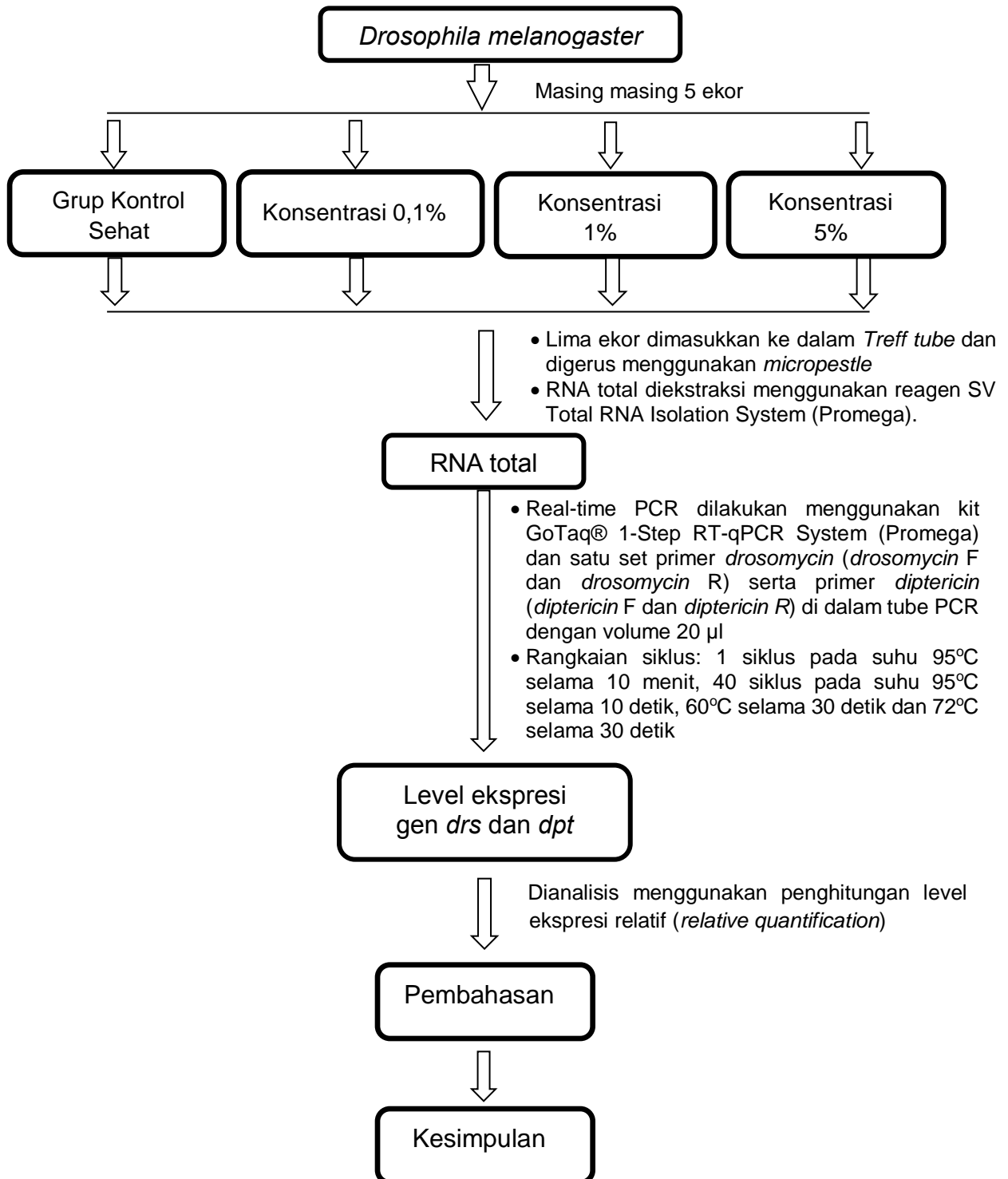
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LAMPIRAN

Lampiran 1. Skema Kerja *Survival Assay*



Lampiran 2. Skema Kerja Isolasi RNA



Lampiran 3. Skema Kerja Pembuatan Pakan *Drosophila melanogaster*

1. Disiapkan alat dan bahan yang akan digunakan.
2. Ditimbang semua bahan:
 - a. Tepung jagung sebanyak 37,5 gram.
 - b. Ragi (*yeast*) sebanyak 25 gram.
 - c. Gula sebanyak 22,5 gram.
 - d. Tepung agar sebanyak 4,5 gram
3. Dicampurkan semua bahan dalam gelas Beaker 1000mL dan dihomogenkan.
4. Dicumukkan dengan *aquadest* yang telah disterilkan sampai 500 mL.
5. Dipanaskan pada suhu 300°C sambil diaduk selama 2 jam.
6. Setelah itu ditunggu hingga suhu pakan menjadi hangat dan dituang ke dalam vial yang telah disediakan.

Lampiran 4. Penimbangan Kapsul Ekstrak *Phyllanthus niruri*

Fitofarmaka

Jumlah kapsul yang ditimbang sebanyak 20 kapsul dengan obot sebagai berikut:

- | | | |
|----------------|-----------------|-----------------|
| 1. 0,2514 gram | 7. 0,2516 gram | 13. 0,2581 gram |
| 2. 0,2490 gram | 8. 0,2522 gram | 14. 0,2656 gram |
| 3. 0,2473 gram | 9. 0,2544 gram | 15. 0,2553 gram |
| 4. 0,2565 gram | 10. 0,2586 gram | 16. 0,2657 gram |
| 5. 0,2580 gram | 11. 0,2621 gram | 17. 0,2604 gram |
| 6. 0,2471 gram | 12. 0,2645 gram | 18. 0,2580 gram |

19. 0,2526 gram

20. 0,2711 gram

Jumlah keseluruhan bobot serbuk sebesar 5,1395 gram.

Lampiran 5. Pembuatan Pakan Yang Mengandung Ekstrak

***Phyllanthus niruri* 0,1%; 1%; dan 5%**

a. Pembuatan Pakan yang Mengandung Ekstrak *Phyllanthus niruri*

Konsentrasi 0,1%

Ditimbang sejumlah serbuk setara dengan 200 mg ekstrak *Phyllanthus niruri*:

$$\frac{2 \text{ mg}}{1000 \text{ mg}} \times 5,1395 \text{ gram} = 0,010279 \text{ gram}$$

0,010279 gram serbuk kemudian ditambahkan pakan sebanyak 1.989,7 mg pakan

b. Pembuatan Pakan yang Mengandung Ekstrak *Phyllanthus niruri*

Konsentrasi 1%

Ditimbang sejumlah serbuk setara dengan 20 mg ekstrak *Phyllanthus niruri*:

$$\frac{20 \text{ mg}}{1000 \text{ mg}} \times 5,1395 \text{ gram} = 0,10279 \text{ gram}$$

0,10279 gram serbuk kemudian ditambahkan pakan sebanyak 1.989,7 mg pakan.

c. Pembuatan Pakan yang Mengandung Ekstrak *Phyllanthus niruri*

Konsentrasi 5%

Ditimbang sejumlah serbuk setara dengan 20 mg ekstrak *Phyllanthus niruri*:

$$\frac{100 \text{ mg}}{1000 \text{ mg}} \times 5,1395 \text{ gram} = 0,51395 \text{ gram}$$

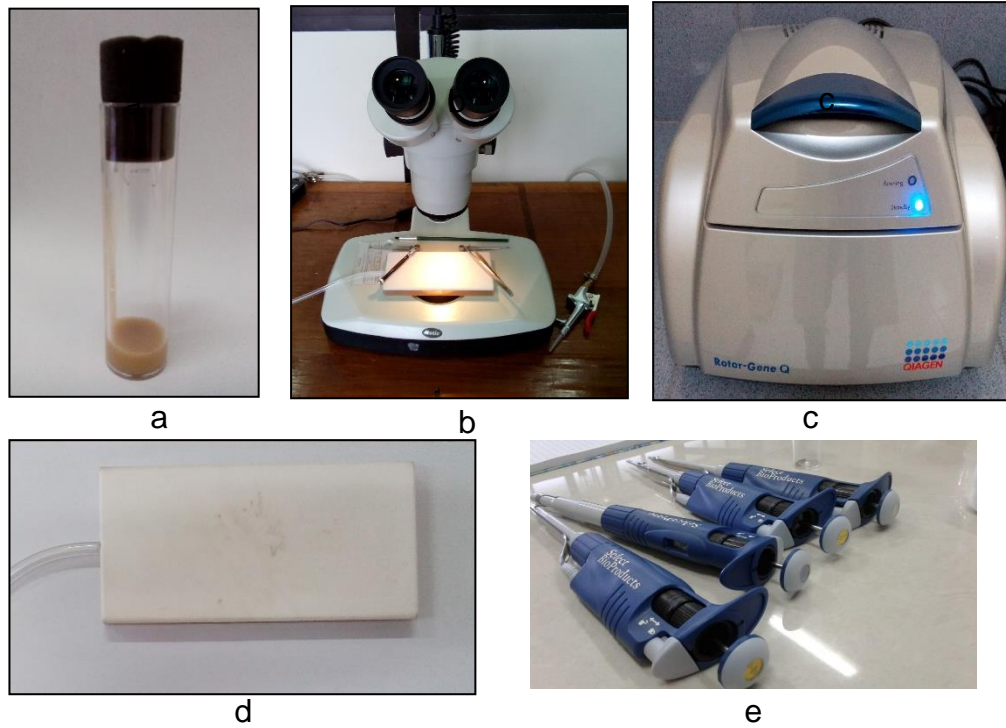
0,51395 gram serbuk kemudian ditambahkan pakan sebanyak 1.486 mg pakan.

Lampiran 6. Komposisi Pakan

Komposisi pakan *D. melanogaster* untuk 1 liter :

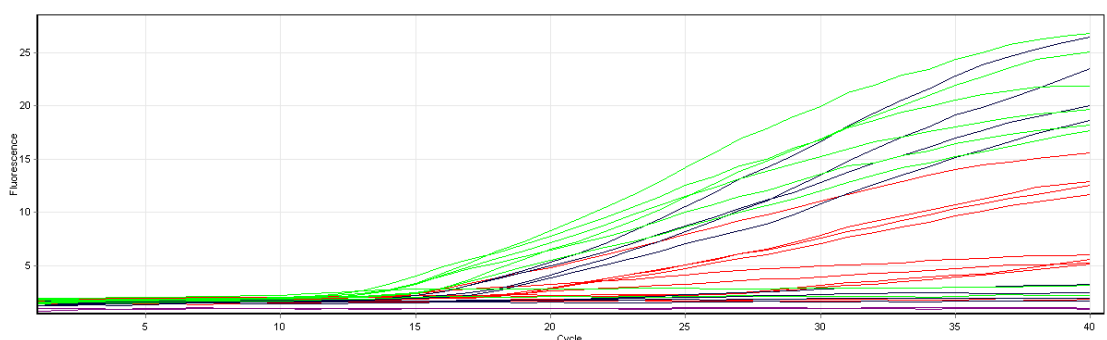
- Corn meal : 75 g
- Glukosa : 45 g
- Yeast : 25 g
- Agar : 9 g
- Metil paraben 15% : 4,2 ml
- Asam propionat : 3,8 ml
- Air steril : ad 1 liter
- pH : 4-5.

Lampiran 7. Gambar Alat-Alat Penelitian



Gambar 17. Foto alat-alat penelitian: (a) vial *drosophila*; (b) stereo mikroskop; (c) alat real time PCR; (d) CO₂ stage (e) pipet mikro

Lampiran 8. Gambar hasil PCR



Gambar 17. Gambar hasil PCR

Lampiran 9. One-Way ANOVA Test

Table Analyzed	Drs_expression_Stimuno				
Repeated measures ANOVA summary					
Assume sphericity?	No				
F	2.294				
P value	0.3715				
P value summary	Ns				
Statistically significant (P < 0.05)?	No				
Geisser-Greenhouse's epsilon	0.3333				
R square	0.6964				
Was the matching effective?					
F	2.261				
P value	0.2297				
P value summary	ns				
Is there significant matching (P < 0.05)?	No				
R square	0.1862				
ANOVA table					
	SS	DF	MS	F (DFn, DFd)	P value
Treatment (between columns)	1.942	3	0.6473	F (1.000, 1.000) = 2.294	P=0.3715
Individual (between rows)	0.6379	1	0.6379	F (1, 3) = 2.261	P=0.2297
Residual (random)	0.8464	3	0.2821		
Total	3.426	7			
Data summary					
Number of treatments (columns)	4				
Number of subjects (rows)	2				
Number of missing values	0				

Number of families	1
Number of comparisons per family	6
Alpha	0.05

Tukey's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Significant ?	Summary	Adjusted P Value	
Kontrol Sehat vs. Stimuno 0.1%	-1.267	-18.93 to 16.40	No	ns	0.6135	A-B
Kontrol Sehat vs. Stimuno 1%	-0.7255	-6.912 to 5.461	No	ns	0.4203	A-C
Kontrol Sehat vs. Stimuno 5s%	-0.1995	-0.9062 to 0.5073	No	ns	0.1865	A-D
Stimuno 0.1% vs. Stimuno 1%	0.5420	-10.94 to 12.02	No	ns	0.7774	B-C
Stimuno 0.1% vs. Stimuno 5%	1.068	-15.89 to 18.03	No	ns	0.6669	B-D
Stimuno 1% vs. Stimuno 5%	0.5260	-4.953 to 6.005	No	ns	0.4954	C-D

Test details	Mean 1	Mean 2	Mean Diff.	SE of diff.	n1	n2	q	DF
Kontrol Sehat vs. Stimuno 0.1%	4.545e-005	1.268	-1.267	0.8125	2	2	2.206	1
Kontrol Sehat vs. Stimuno 1%	4.545e-005	0.7255	-0.7255	0.2845	2	2	3.606	1
Kontrol Sehat vs. Stimuno 5%	4.545e-005	0.1995	-0.1995	0.03250	2	2	8.678	1
Stimuno 0.1% vs. Stimuno 1%	1.268	0.7255	0.5420	0.5280	2	2	1.452	1
Stimuno 0.1% vs. Stimuno 5%	1.268	0.1995	1.068	0.7800	2	2	1.936	1
Stimuno 1% vs. Stimuno 5%	0.7255	0.1995	0.5260	0.2520	2	2	2.952	1

Table Analyzed		Dpt_expression_Stimuno			
Repeated measures ANOVA summary					
Assume sphericity?	No				
F	5.689				
P value	0.2527				
P value summary	ns				
Statistically significant (P < 0.05)?	No				
Geisser-Greenhouse's epsilon	0.3333				
R square	0.8505				
Was the matching effective?					
F	1.101				
P value	0.3711				
P value summary	ns				
Is there significant matching (P < 0.05)?	No				
R square	0.05201				
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
Treatment (between columns)	0.9271	3	0.3090	F (1.000, 1.000) = 5.689	P=0.2527
Individual (between rows)	0.05981	1	0.05981	F (1, 3) = 1.101	P=0.3711
Residual (random)	0.1630	3	0.05432		
Total	1.150	7			
Data summary					
Number of treatments (columns)	4				
Number of subjects (rows)	2				
Number of missing values	0				

Number of families	1							
Number of comparisons per family	6							
Alpha	0.05							
Tukey's multiple comparisons test	Mean Diff.	95.00% CI of diff.	Significant?	Summary	Adjusted P Value			
Kontrol Sehat vs. Stimuno 0.1%	-0.7650	-0.9389 to -0.5910	Yes	*	0.0211	A-B		
Kontrol Sehat vs. Stimuno 1%	-0.6210	-7.862 to 6.620	No	ns	0.5403	A-C		
Kontrol Sehat vs. Stimuno 5%	-0.04083	-0.4942 to 0.4125	No	ns	0.5207	A-D		
Stimuno 0.1% vs. Stimuno 1%	0.1440	-7.271 to 7.559	No	ns	0.9661	B-C		
Stimuno 0.1% vs. Stimuno 5%	0.7242	0.09684 to 1.351	Yes	*	0.0404	B-D		
Stimuno 1% vs. Stimuno 5%	0.5802	-6.207 to 7.368	No	ns	0.5417	C-D		
Test details	Mean 1	Mean 2	Mean Diff.	SE of diff.	n1	n2	q	DF
Kontrol Sehat vs. Stimuno 0.1%	2.395e-005	0.7650	-0.7650	0.008001	2	2	135.2	1
Kontrol Sehat vs. Stimuno 1%	2.395e-005	0.6210	-0.6210	0.3330	2	2	2.637	1
Kontrol Sehat vs. Stimuno 5%	2.395e-005	0.04085	-0.04083	0.02085	2	2	2.769	1
Stimuno 0.1% vs. Stimuno 1%	0.7650	0.6210	0.1440	0.3410	2	2	0.5972	1
Stimuno 0.1% vs. Stimuno 5%	0.7650	0.04085	0.7242	0.02885	2	2	35.50	1
Stimuno 1% vs. Stimuno 5%	0.6210	0.04085	0.5802	0.3122	2	2	2.628	1