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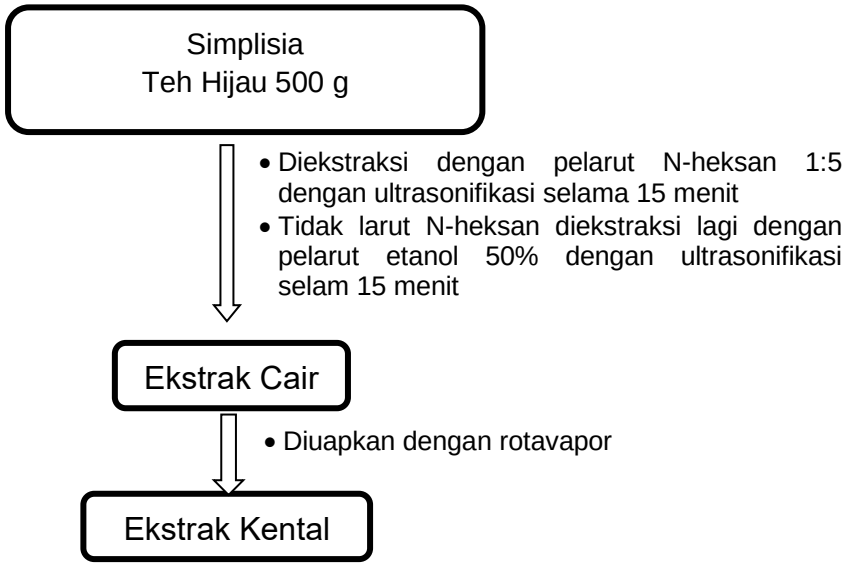
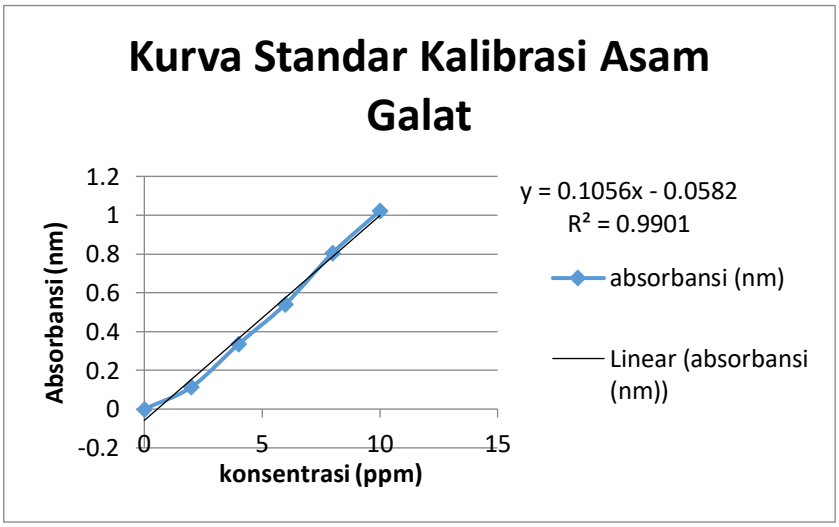
LAMPIRAN

Lampiran 1. Ekstraksi sampel

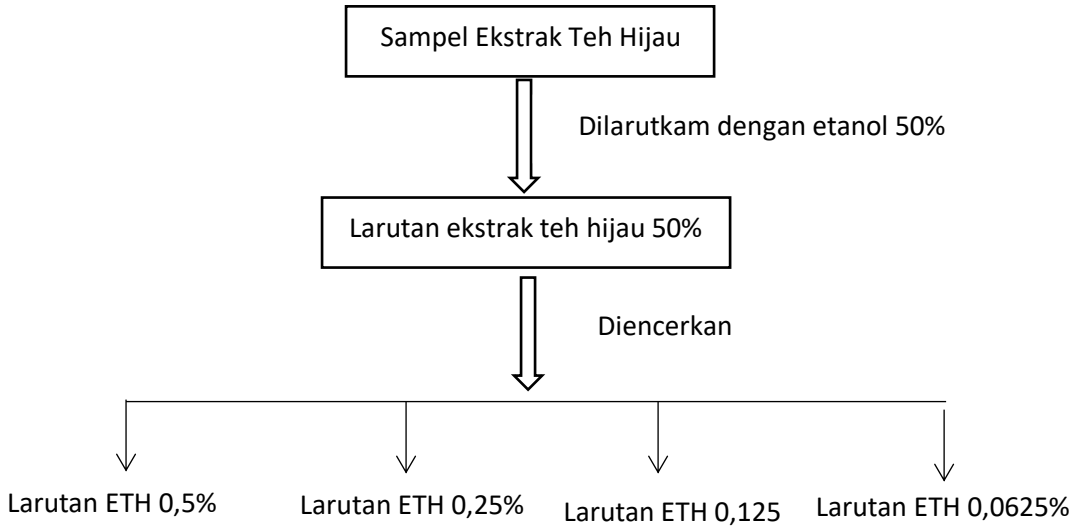


Lampiran 2. Pengujian Fenolik total

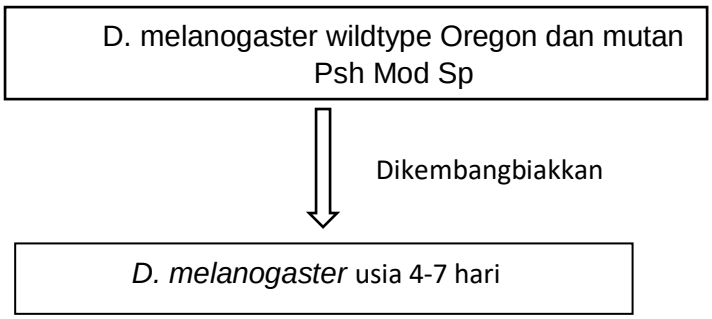


kosentrasi (ppm)	absorbansi (nm)
0	0
2	0,114
4	0,335
6	0,542
8	0,805
10	1,022

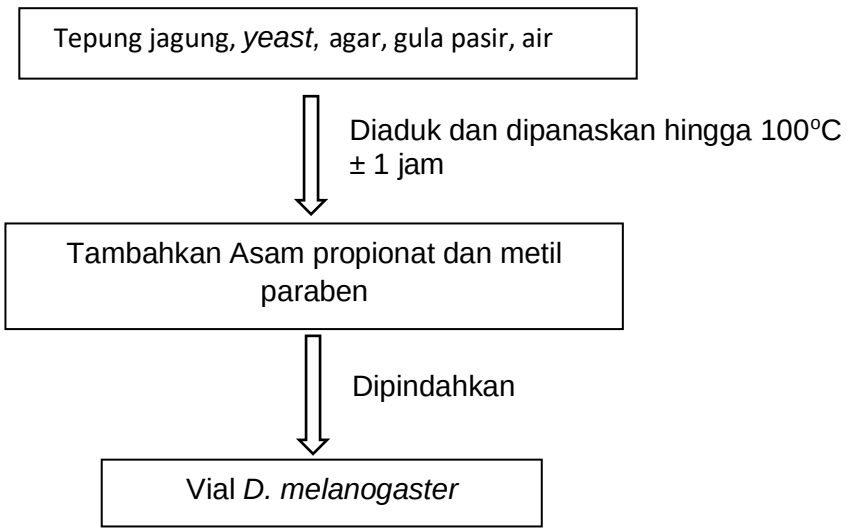
Lampiran 3. Preparasi ETH



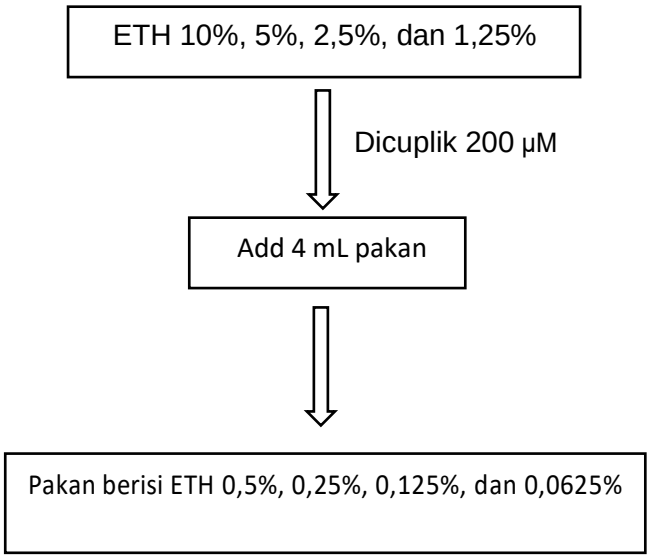
Lampiran 4. Penyiapan Hewan Uji



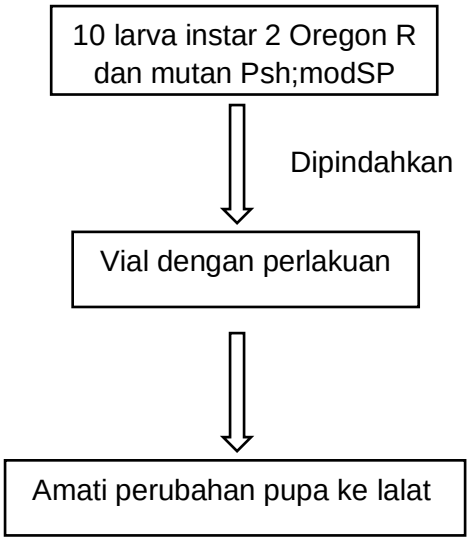
Lampiran 5. Pembuatan Pakan



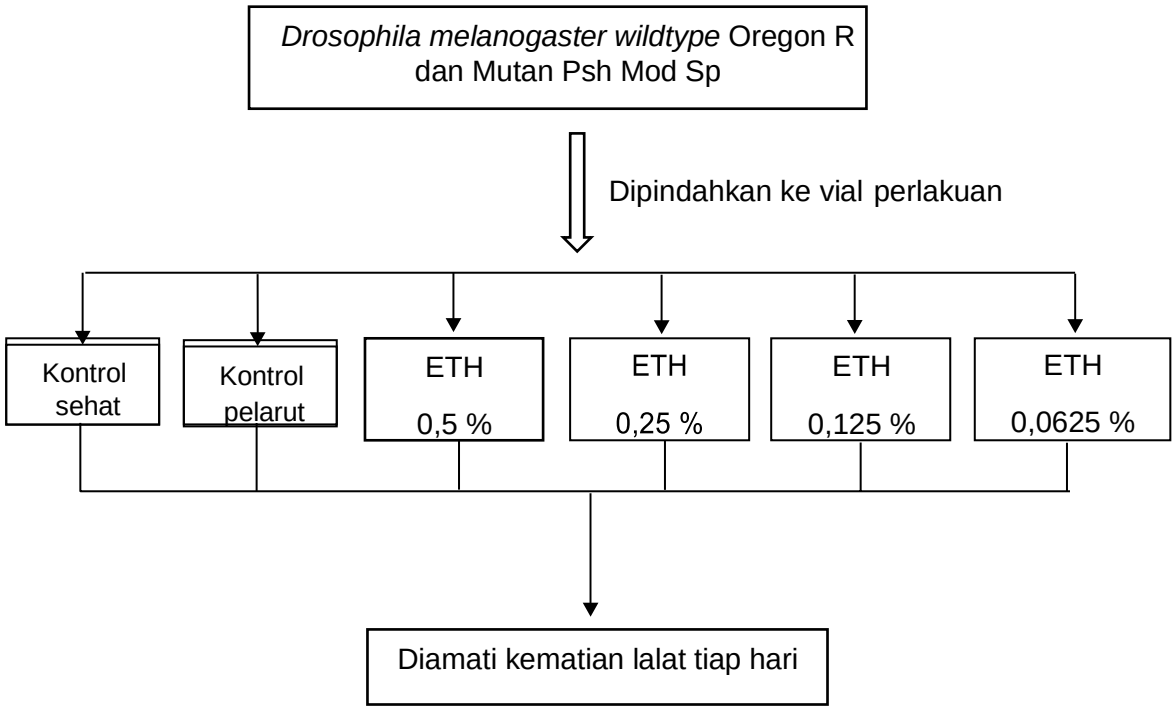
Lampiran 6. Penyiapan Pakan Pengujian



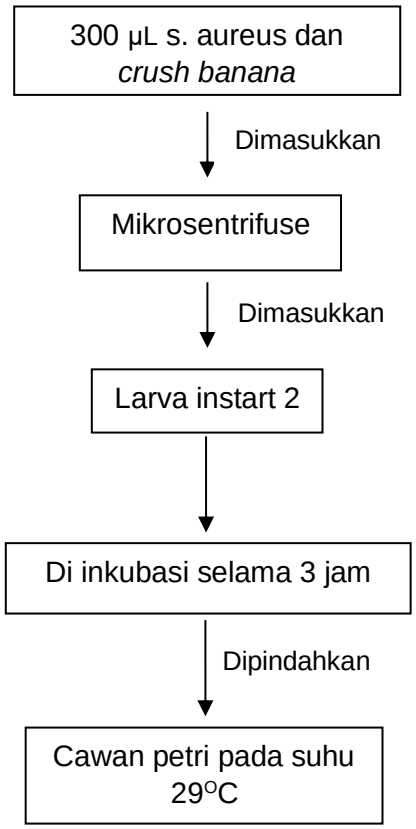
Lampiran 7. Uji Keamanan ETH



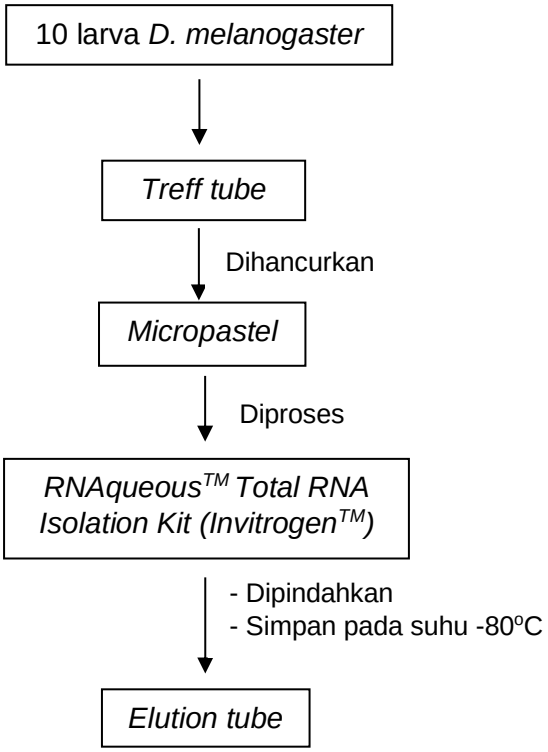
Lampiran 8. Uji Survival Sebelum Infeksi



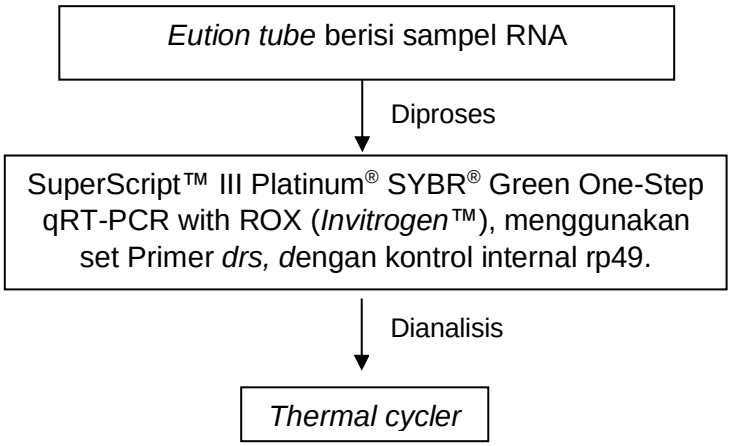
Lampiran 9. Pengujian Infeksi Staphylococcus aureus secara *in vivo*



Lampiran 10. Penyiapan Sampel RNA



Lampiran 11. Analisis Ekspresi Gen



Lampiran 12. Perhitungan

1. Pembuatan Larutan stok 50 %

% M = $\frac{m}{V} x100\%$

50% = $\frac{m}{5} x100\%$

m = 2,5 g

2. Pembuatan Larutan Uji

a. 10 %

$N_1.V_1 = N_2.V_2$

$50\%.V_1 = 10\%.10ml$

V_1= 2ml

b. 5 %

$N_1.V_1 = N_2.V_2$

$10\%.V_1 = 5\%.2ml$

V_1= 1ml

c. 2,5 %

$N_1.V_1 = N_2.V_2$

$5\%.V_1 = 2{,}5\%.2ml$

V_1= 1ml

d. 1,25 %

$N_1.V_1 = N_2.V_2$

$2{,}5\%.V_1 = 1{,}25\%.2ml$

V_1= 1ml

3. Pembuatan Pakan Perlakuan

a. 0,5 %

$N_1.V_1 = N_2.V_2$

$10.X = 0.5\%.4ml$

$X = \frac{0{,}5\ x\ 4}{10}$

X = 0,2 ml

= 200 µL

b. 0,25%

$N_1.V_1 = N_2.V_2$

$5.X = 0.25\%.4ml$

$X = \frac{0{,}25\ x\ 4}{5}$

X = 0,2 ml

= 200 µL

c. 0,125%

$N_1.V_1 = N_2.V_2$

2,5.X = 0.125%.4ml

$X = \frac{0,125 \ x \ 4}{2,5}$

X = 0,2 ml

= 200 µL

d. 0,0625

$N_1.V_1 = N_2.V_2$

1,25.X = 0.0625%.4ml

$X = \frac{0,0625 \ x \ 4}{1,25}$

X = 0,2 ml

= 200 µl

Lampiran 13. Data Statistik

Table 2. Hasil one-way anova Uji Keamanan ETH pada pupa Oregon R

Table Analyzed	uji keamanan ETH pada pupa Oregon R				
One-way analysis of variance					
P value	0.4582				
P value summary	ns				
Are means signif. different? (P < 0.05)	No				
Number of groups	6				
F	1.000				
R square	0.2941				
ANOVA Table	SS	df	MS		
Treatment (between columns)	27.78	5	5.556		
Residual (within columns)	66.67	12	5.556		
Total	94.44	17			
Tukey's Multiple Comparison Test	Mean Diff.	q	Significant? P < 0.05?	Summary	95% CI of diff
Kontrol tanpa perlakuan vs Kontrol pelarut	0.0	0.0	No	ns	-6.465 to 6.465
Kontrol tanpa perlakuan vs Ekstrak teh hijau 0,5%	3.333	2.449	No	ns	-3.132 to 9.799
Kontrol tanpa perlakuan vs Ekstrak teh hijau 0,25%	0.0	0.0	No	ns	-6.465 to 6.465
Kontrol tanpa perlakuan vs Ekstrak teh hijau 0,125%	0.0	0.0	No	ns	-6.465 to 6.465
Kontrol tanpa perlakuan vs Ekstrak teh hijau 0,0625%	0.0	0.0	No	ns	-6.465 to 6.465

Kontrol pelarut vs Ekstrak teh hijau 0,5%	3.333	2.449	No	ns	-3.132 to 9.799
Kontrol pelarut vs Ekstrak teh hijau 0,25%	0.0	0.0	No	ns	-6.465 to 6.465
Kontrol pelarut vs Ekstrak teh hijau 0,125%	0.0	0.0	No	ns	-6.465 to 6.465
Kontrol pelarut vs Ekstrak teh hijau 0,0625%	0.0	0.0	No	ns	-6.465 to 6.465
Ekstrak teh hijau 0,5% vs Ekstrak teh hijau 0,25%	-3.333	2.449	No	ns	-9.799 to 3.132
Ekstrak teh hijau 0,5% vs Ekstrak teh hijau 0,125%	-3.333	2.449	No	ns	-9.799 to 3.132
Ekstrak teh hijau 0,5% vs Ekstrak teh hijau 0,0625%	-3.333	2.449	No	ns	-9.799 to 3.132
Ekstrak teh hijau 0,25% vs Ekstrak teh hijau 0,125%	0.0	0.0	No	ns	-6.465 to 6.465
Ekstrak teh hijau 0,25% vs Ekstrak teh hijau 0,0625%	0.0	0.0	No	ns	-6.465 to 6.465
Ekstrak teh hijau 0,125% vs Ekstrak teh hijau 0,0625%	0.0	0.0	No	ns	-6.465 to 6.465

Table 3. Hasil one-way anova uji keamanan ETH lalat Oregon R

Table Analyzed		uji keamanan ETH pada Lalat Oregon R				
One-way analysis of variance						
P value		0.4582				
P value summary		Ns				
Are means signif. different? (P < 0.05)		No				
Number of groups		6				
F		1.000				
R square		0.2941				
ANOVA Table		SS	Df	MS		
Treatment (between columns)		27.78	5	5.556		
Residual (within columns)		66.67	12	5.556		
Total		94.44	17			
Tukey's Multiple Comparison Test		Mean Diff.	Q	Significant? P < 0.05?	Summary	95% CI of diff
Kontrol tanpa perlakuan vs Kontrol pelarut		0.0	0.0	No	ns	-6.465 to 6.465
Kontrol tanpa perlakuan vs Ekstrak teh hijau 10%		3.333	2.449	No	ns	-3.132 to 9.799
Kontrol tanpa perlakuan vs Ekstrak teh hijau 5%		0.0	0.0	No	ns	-6.465 to 6.465
Kontrol tanpa perlakuan vs Ekstrak teh hijau 2,5%		0.0	0.0	No	ns	-6.465 to 6.465
Kontrol tanpa perlakuan vs Ekstrak teh hijau 1,25%		0.0	0.0	No	ns	-6.465 to 6.465
Kontrol pelarut vs Ekstrak teh hijau 10%		3.333	2.449	No	ns	-3.132 to 9.799
Kontrol pelarut vs Ekstrak teh hijau 5%		0.0	0.0	No	ns	-6.465 to 6.465
Kontrol pelarut vs Ekstrak teh hijau 2,5%		0.0	0.0	No	ns	-6.465 to 6.465
Kontrol pelarut vs Ekstrak teh hijau 1,25%		0.0	0.0	No	ns	-6.465 to 6.465
Ekstrak teh hijau 10% vs Ekstrak teh hijau 5%		-3.333	2.449	No	ns	-9.799 to 3.132

Ekstrak teh hijau 10% vs Ekstrak teh hijau 2,5%		-3.333	2.449	No	ns	-9.799 to 3.132
Ekstrak teh hijau 10% vs Ekstrak teh hijau 1,25%		-3.333	2.449	No	ns	-9.799 to 3.132
Ekstrak teh hijau 5% vs Ekstrak teh hijau 2,5%		0.0	0.0	No	ns	-6.465 to 6.465
Ekstrak teh hijau 5% vs Ekstrak teh hijau 1,25%		0.0	0.0	No	ns	-6.465 to 6.465
Ekstrak teh hijau 2,5% vs Ekstrak teh hijau 1,25%		0.0	0.0	No	ns	-6.465 to 6.465

Table 4. Hasil one-way anova uji keamanan ETH pupa PSh Mod Sp

Table Analyzed	uji keamanan ETH pada pupa PshMod Sp				
One-way analysis of variance					
P value	0.8397				
P value summary	ns				
Are means signif. different? (P < 0.05)	No				
Number of groups	6				
F	0.4000				
R square	0.1429				
ANOVA Table	SS	df	MS		
Treatment (between columns)	44.44	5	8.889		
Residual (within columns)	266.7	12	22.22		
Total	311.1	17			
Tukey's Multiple Comparison Test	Mean Diff.	q	Significant? P < 0.05?	Summary	95% CI of diff
Kontrol tanpa perlakuan vs Kontrol pelarut	0.0	0.0	No	ns	-12.93 to 12.93
Kontrol tanpa perlakuan vs Ekstrak teh hijau 10%	-3.333	1.225	No	ns	-16.26 to 9.597

Kontrol tanpa perlakuan vs Ekstrak teh hijau 5%	0.0	0.0	No	ns	-12.93 to 12.93
Kontrol tanpa perlakuan vs Ekstrak teh hijau 2,5%	-3.333	1.225	No	ns	-16.26 to 9.597
Kontrol tanpa perlakuan vs Ekstrak teh hijau 1,25%	0.0	0.0	No	ns	-12.93 to 12.93
Kontrol pelarut vs Ekstrak teh hijau 10%	-3.333	1.225	No	ns	-16.26 to 9.597
Kontrol pelarut vs Ekstrak teh hijau 5%	0.0	0.0	No	ns	-12.93 to 12.93
Kontrol pelarut vs Ekstrak teh hijau 2,5%	-3.333	1.225	No	ns	-16.26 to 9.597
Kontrol pelarut vs Ekstrak teh hijau 1,25%	0.0	0.0	No	ns	-12.93 to 12.93
Ekstrak teh hijau 10% vs Ekstrak teh hijau 5%	3.333	1.225	No	ns	-9.597 to 16.26
Ekstrak teh hijau 10% vs Ekstrak teh hijau 2,5%	0.0	0.0	No	ns	-12.93 to 12.93
Ekstrak teh hijau 10% vs Ekstrak teh hijau 1,25%	3.333	1.225	No	ns	-9.597 to 16.26
Ekstrak teh hijau 5% vs Ekstrak teh hijau 2,5%	-3.333	1.225	No	ns	-16.26 to 9.597
Ekstrak teh hijau 5% vs Ekstrak teh hijau 1,25%	0.0	0.0	No	ns	-12.93 to 12.93
Ekstrak teh hijau 2,5% vs Ekstrak teh hijau 1,25%	3.333	1.225	No	ns	-9.597 to 16.26

Table 5. Hasil one-way anova uji keamanan ETH lalat PSh Mod Sp

Table Analyzed	uji keamanan ETH pada lalat PshMod Sp				
One-way analysis of variance					
P value	0.7847				
P value summary	ns				
Are means signif. different? (P < 0.05)	No				
Number of groups	6				
F	0.4800				
R square	0.1667				
ANOVA Table	SS	df	MS		
Treatment (between columns)	66.67	5	13.33		
Residual (within columns)	333.3	12	27.78		
Total	400.0	17			
Tukey's Multiple Comparison Test	Mean Diff.	Q	Significant? P < 0.05?	Summary	95% CI of diff
Kontrol tanpa perlakuan vs Kontrol pelarut	0.0	0.0	No	Ns	-14.46 to 14.46
Kontrol tanpa perlakuan vs Ekstrak teh hijau 10%	0.0	0.0	No	Ns	-14.46 to 14.46
Kontrol tanpa perlakuan vs Ekstrak teh hijau 5%	0.0	0.0	No	Ns	-14.46 to 14.46
Kontrol tanpa perlakuan vs Ekstrak teh hijau 2,5%	-3.333	1.095	No	Ns	-17.79 to 11.12
Kontrol tanpa perlakuan vs Ekstrak teh hijau 1,25%	3.333	1.095	No	Ns	-11.12 to 17.79
Kontrol pelarut vs Ekstrak teh hijau 10%	0.0	0.0	No	Ns	-14.46 to 14.46
Kontrol pelarut vs Ekstrak teh hijau 5%	0.0	0.0	No	Ns	-14.46 to 14.46
Kontrol pelarut vs Ekstrak teh hijau 2,5%	-3.333	1.095	No	Ns	-17.79 to 11.12
Kontrol pelarut vs Ekstrak teh hijau 1,25%	3.333	1.095	No	Ns	-11.12 to 17.79
Ekstrak teh hijau 10% vs Ekstrak teh hijau 5%	0.0	0.0	No	Ns	-14.46 to 14.46
Ekstrak teh hijau 10% vs Ekstrak teh hijau 2,5%	-3.333	1.095	No	Ns	-17.79 to 11.12

Ekstrak teh hijau 10% vs Ekstrak teh hijau 1,25%	3.333	1.095	No	Ns	-11.12 to 17.79
Ekstrak teh hijau 5% vs Ekstrak teh hijau 2,5%	-3.333	1.095	No	Ns	-17.79 to 11.12
Ekstrak teh hijau 5% vs Ekstrak teh hijau 1,25%	3.333	1.095	No	Ns	-11.12 to 17.79
Ekstrak teh hijau 2,5% vs Ekstrak teh hijau 1,25%	6.667	2.191	No	Ns	-7.790 to 21.12

5. Oregon R KsKp (Infeksi)

Table Analyzed	oregon infeksi kskp				
One-way analysis of variance					
P value	0.0007				
P value summary	***				
Are means signif. different? (P < 0.05)	Yes				
Number of groups	4				
F	17.29				
R square	0.8663				
ANOVA Table	SS	Df	MS		
Treatment (between columns)	3025	3	1008		
Residual (within columns)	466.7	8	58.33		
Total	3492	11			
Tukey's Multiple Comparison Test	Mean Diff.	Q	Significant? P < 0.05?	Summary	95% CI of diff
Kontrol tanpa perlakuan vs Tanpa perlakuan dengan infeksi	36.67	8.315	Yes	**	16.70 to 56.64
Kontrol tanpa perlakuan vs Ekstrak teh hijau 10%	0.0	0.0	No	Ns	-19.97 to 19.97
Kontrol tanpa perlakuan vs Ekstrak teh hijau 5%	0.0	0.0	No	Ns	-19.97 to 19.97
Tanpa perlakuan dengan infeksi vs Ekstrak teh hijau 10%	-36.67	8.315	Yes	**	-56.64 to -16.70
Tanpa perlakuan dengan infeksi vs Ekstrak teh hijau 5%	-36.67	8.315	Yes	**	-56.64 to -16.70
Ekstrak teh hijau 10% vs Ekstrak teh hijau 5%	0.0	0.0	No	Ns	-19.97 to 19.97

Table 6. Hasil one-way anova pasca infeksi pada Oregon R

Table Analyzed	oregon infeksi				
One-way analysis of variance					
P value	< 0.0001				
P value summary	***				
Are means signif. different? (P < 0.05)	Yes				
Number of groups	8				
F	19.73				
R square	0.8962				
ANOVA Table	SS	df	MS		
Treatment (between columns)	4029	7	575.6		
Residual (within columns)	466.7	16	29.17		
Total	4496	23			
Tukey's Multiple Comparison Test	Mean Diff.	q	Significant? P < 0.05?	Summary	95% CI of diff
Kontrol tanpa perlakuan vs Tanpa perlakuan dengan infeksi	36.67	11.76	Yes	***	21.40 to 51.94
Kontrol tanpa perlakuan vs Kontrol pelarut	0.0	0.0	No	ns	-15.27 to 15.27
Kontrol tanpa perlakuan vs Kontrol pelarut dengan infeksi	20.00	6.414	Yes	**	4.731 to 35.27
Kontrol tanpa perlakuan vs Ekstrak teh hijau 10%	0.0	0.0	No	ns	-15.27 to 15.27
Kontrol tanpa perlakuan vs Ekstrak teh hijau 5%	0.0	0.0	No	ns	-15.27 to 15.27
Kontrol tanpa perlakuan vs Ekstrak teh hijau 2,5%	0.0	0.0	No	ns	-15.27 to 15.27
Kontrol tanpa perlakuan vs Ekstrak teh hijau 1,25%	0.0	0.0	No	ns	-15.27 to 15.27
Tanpa perlakuan dengan infeksi vs Kontrol pelarut	-36.67	11.76	Yes	***	-51.94 to -21.40
Tanpa perlakuan dengan infeksi vs Kontrol pelarut dengan	-16.67	5.345	Yes	*	-31.94 to -

infeksi					1.398
Tanpa perlakuan dengan infeksi vs Ekstrak teh hijau 10%	-36.67	11.76	Yes	***	-51.94 to -21.40
Tanpa perlakuan dengan infeksi vs Ekstrak teh hijau 5%	-36.67	11.76	Yes	***	-51.94 to -21.40
Tanpa perlakuan dengan infeksi vs Ekstrak teh hijau 2,5%	-36.67	11.76	Yes	***	-51.94 to -21.40
Tanpa perlakuan dengan infeksi vs Ekstrak teh hijau 1,25%	-36.67	11.76	Yes	***	-51.94 to -21.40
Kontrol pelarut vs Kontrol pelarut dengan infeksi	20.00	6.414	Yes	**	4.731 to 35.27
Kontrol pelarut vs Ekstrak teh hijau 10%	0.0	0.0	No	ns	-15.27 to 15.27
Kontrol pelarut vs Ekstrak teh hijau 5%	0.0	0.0	No	ns	-15.27 to 15.27
Kontrol pelarut vs Ekstrak teh hijau 2,5%	0.0	0.0	No	ns	-15.27 to 15.27
Kontrol pelarut vs Ekstrak teh hijau 1,25%	0.0	0.0	No	ns	-15.27 to 15.27
Kontrol pelarut dengan infeksi vs Ekstrak teh hijau 10%	-20.00	6.414	Yes	**	-35.27 to -4.731
Kontrol pelarut dengan infeksi vs Ekstrak teh hijau 5%	-20.00	6.414	Yes	**	-35.27 to -4.731
Kontrol pelarut dengan infeksi vs Ekstrak teh hijau 2,5%	-20.00	6.414	Yes	**	-35.27 to -4.731
Kontrol pelarut dengan infeksi vs Ekstrak teh hijau 1,25%	-20.00	6.414	Yes	**	-35.27 to -4.731
Ekstrak teh hijau 10% vs Ekstrak teh hijau 5%	0.0	0.0	No	ns	-15.27 to 15.27
Ekstrak teh hijau 10% vs Ekstrak teh hijau 2,5%	0.0	0.0	No	ns	-15.27 to 15.27
Ekstrak teh hijau 10% vs Ekstrak teh hijau 1,25%	0.0	0.0	No	ns	-15.27 to 15.27
Ekstrak teh hijau 5% vs Ekstrak teh hijau 2,5%	0.0	0.0	No	ns	-15.27 to 15.27
Ekstrak teh hijau 5% vs Ekstrak teh hijau 1,25%	0.0	0.0	No	ns	-15.27 to 15.27
Ekstrak teh hijau 2,5% vs Ekstrak teh hijau 1,25%	0.0	0.0	No	ns	-15.27 to 15.27

Table 7. Hasil one-way anova pasca infeksi PSh Mod Sp

Table Analyzed	psh infeksi Survival				
One-way analysis of variance					
P value	0.0001				
P value summar	***				
Are means signif. different? (P < 0.05)	Yes				
Number of groups	4				
F	28.00				
R square	0.9130				
ANOVA Table	SS	df	MS		
Treatment (between columns)	4900	3	1633		
Residual (within columns)	466.7	8	58.33		
Total	5367	11			
Tukey's Multiple Comparison Test	Mean Diff.	q	Significant? P < 0.05?	Summary	95% CI of diff
Kontrol tanpa perlakuan vs Tanpa perlakuan dengan infeksi	46.67	10.58	Yes	***	26.70 to 66.64
Kontrol tanpa perlakuan vs Ekstrak teh hijau 10%	0.0	0.0	No	ns	-19.97 to 19.97
Kontrol tanpa perlakuan vs Ekstrak teh hijau 5%	0.0	0.0	No	ns	-19.97 to 19.97
Tanpa perlakuan dengan infeksi vs Ekstrak teh hijau 10%	-46.67	10.58	Yes	***	-66.64 to -26.70
Tanpa perlakuan dengan infeksi vs Ekstrak teh hijau 5%	-46.67	10.58	Yes	***	-66.64 to -26.70
Ekstrak teh hijau 10% vs Ekstrak teh hijau 5%	0.0		No	ns	-19.97 to 19.97