

Lampiran 1: Penghitungan Dosis Ekstrak Etanol Daun Sirih (EEDS)

Dosis yang disusun pada penelitian EEDS mengacu pada dosis Yani Ayu Pujianti (2009) dengan dosis infusa daun sirih efektif sebesar 1,6%.

Diketahui: 500 gram berat kering simplisia daun sirih menghasilkan ekstrak sebesar 55 gram.

$$\frac{1,6 \text{ gram}}{500 \text{ gram}} \times 55 \text{ gram} = 0,176 \text{ g/100 ml} \sim 0,2\% \text{ EEDS}$$

Sehingga, variasi dosis EEDS menjadi 0,2%,0,4%,0,8%, dan 1,6%

Prosedur Pembuatan EEDS

Pembuatan EEDS dilakukan di Laboratorium Farmakologi Fakultas Kedokteran Universitas Kristen Maranatha melalui tahapan berikut ini:

- Timbang 500 gram simplisia daun sirih
- Rendam dalam pelarut etanol *absolute* (96%) dengan perbandingan 1:10.
- Maserasi selama ± 7 hari.
- Hasi maserasi diperkolasi dengan kecepatan 5 tetes per menit.
- Hasil maserasi dievaporasi dalam evaporator sampai didapatkan ekstrak kental.
- Ekstrak dikeringkan pada *waterbath* sampai seluruh pelarut teruapkan hingga diperoleh ekstrak kering.

EEDS kemudian ditimbang sesuai kebutuhan dosis untuk 0,2%.0,4%,0,8% dan 1,6% dengan dibuat pengenceran dengan larutan CMC 1% hingga masing-masing pengulangan mencapai volume 100 ml.

Dosis Temefos 0,01% didapatkan dari :

10 gram dalam 100 liter pelarut

= 10 mg dalam 100 ml $\sim 0,01\%$

Lampiran 2:

Oneway ANAVA

Pengamatan Efek Larvisida selama 24 Jam

Descriptives

LN24J								
	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
EEDS 0,2%	5	2.4161	.7518	.3362	1.4826	3.3495	1.10	2.94
EEDS 0,4%	5	3.1345	.2625	.1174	2.8086	3.4604	2.77	3.40
EEDS 0,8%	5	3.4206	2.983E-02	1.3E-02	3.3836	3.4577	3.37	3.43
EEDS 1,6%	5	3.4340	1.282E-16	5.7E-17	3.4340	3.4340	3.43	3.43
Kontrol	5	.5545	.7593	.3396	-.3883	1.4973	.00	1.39
Pembanding	5	3.4141	2.976E-02	1.3E-02	3.3771	3.4510	3.37	3.43
Total	30	2.7290	1.1299	.2063	2.3070	3.1509	.00	3.43

Test of Homogeneity of Variances

LN24J			
Levene Statistic	df1	df2	Sig.
9.610	5	24	.000

ANOVA

LN24J					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	32.177	5	6.435	31.848	.000
Within Groups	4.850	24	.202		
Total	37.027	29			

Lampiran 3:

Post Hoc Tests

Multiple Comparisons

Dependent Variable: LN24J

Tukey HSD

(I) Kelompok Perlakuan	(J) Kelompok Perlakuan	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
EEDS 0,2%	EEDS 0,4%	-.7184	.2843	.156	-1.5975	.1606
	EEDS 0,8%	-1.0046*	.2843	.019	-1.8836	-.1255
	EEDS 1,6%	-1.0179*	.2843	.017	-1.8970	-.1389
	Kontrol	1.8615*	.2843	.000	.9825	2.7406
	Pembanding	-.9980*	.2843	.020	-1.8771	-.1190
EEDS 0,4%	EEDS 0,2%	.7184	.2843	.156	-.1606	1.5975
	EEDS 0,8%	-.2862	.2843	.911	-1.1652	.5929
	EEDS 1,6%	-.2995	.2843	.895	-1.1786	.5795
	Kontrol	2.5799*	.2843	.000	1.7009	3.4590
	Pembanding	-.2796	.2843	.919	-1.1587	.5994
EEDS 0,8%	EEDS 0,2%	1.0046*	.2843	.019	.1255	1.8836
	EEDS 0,4%	.2862	.2843	.911	-.5929	1.1652
	EEDS 1,6%	-1.3338E-02	.2843	1.000	-.8924	.8657
	Kontrol	2.8661*	.2843	.000	1.9871	3.7452
	Pembanding	6.558E-03	.2843	1.000	-.8725	.8856
EEDS 1,6%	EEDS 0,2%	1.0179*	.2843	.017	.1389	1.8970
	EEDS 0,4%	.2995	.2843	.895	-.5795	1.1786
	EEDS 0,8%	1.334E-02	.2843	1.000	-.8657	.8924
	Kontrol	2.8795*	.2843	.000	2.0004	3.7585
	Pembanding	1.990E-02	.2843	1.000	-.8591	.8989
Kontrol	EEDS 0,2%	-1.8615*	.2843	.000	-2.7406	-.9825
	EEDS 0,4%	-2.5799*	.2843	.000	-3.4590	-1.7009
	EEDS 0,8%	-2.8661*	.2843	.000	-3.7452	-1.9871
	EEDS 1,6%	-2.8795*	.2843	.000	-3.7585	-2.0004
	Pembanding	-2.8596*	.2843	.000	-3.7386	-1.9805
Pembanding	EEDS 0,2%	.9980*	.2843	.020	.1190	1.8771
	EEDS 0,4%	.2796	.2843	.919	-.5994	1.1587
	EEDS 0,8%	-6.5580E-03	.2843	1.000	-.8856	.8725
	EEDS 1,6%	-1.9896E-02	.2843	1.000	-.8989	.8591
	Kontrol	2.8596*	.2843	.000	1.9805	3.7386

*. The mean difference is significant at the .05 level.

Lampiran 4:

Homogeneous Subsets

Persentase Larva Mati Selama 24 jam

Tukey HSD^a

Kelompok Perlakuan	N	Subset for alpha = .05		
		1	2	3
Kontrol	5	.5545		
EEDS 0,2%	5		2.4161	
EEDS 0,4%	5		3.1345	3.1345
Pembanding	5			3.4141
EEDS 0,8%	5			3.4206
EEDS 1,6%	5			3.4340
Sig.		1.000	.156	.895

Means for groups in homogeneous subsets are displayed.

^a. Uses Harmonic Mean Sample Size = 5.000.

Lampiran 5:

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* * * * * P R O B I T   A N A L Y S I S * * * * *
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DATA Information

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      30 unweighted cases accepted.
      0 cases rejected because of missing data.
      5 cases are in the control group.

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MODEL Information

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      ONLY Logistic Model is requested.

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* * * * * P R O B I T   A N A L Y S I S * * * * *
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Parameter estimates converged after 16 iterations.
Optimal solution found.

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Parameter Estimates (LOGIT model: (LOG(p/(1-p))) = Intercept +
BX):

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	Regression Coeff.	Standard Error	Coeff./S.E.
DOSIS	3.58834	.34842	10.29899

	Intercept	Standard Error	Intercept/S.E.
	-.28252	.10322	-2.73703

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Pearson Goodness-of-Fit Chi Square = 359.486 DF = 28 P
= .000

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Since Goodness-of-Fit Chi square is significant, a heterogeneity
factor is used in the calculation of confidence limits.

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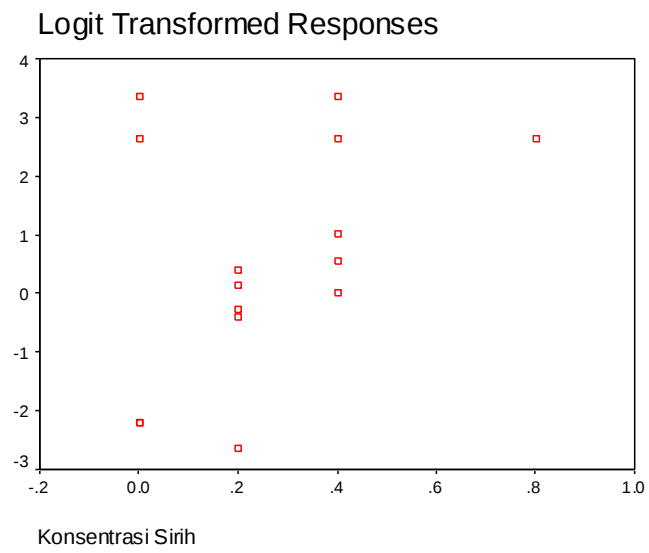
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***** P R O B I T A N A L Y S I S *****

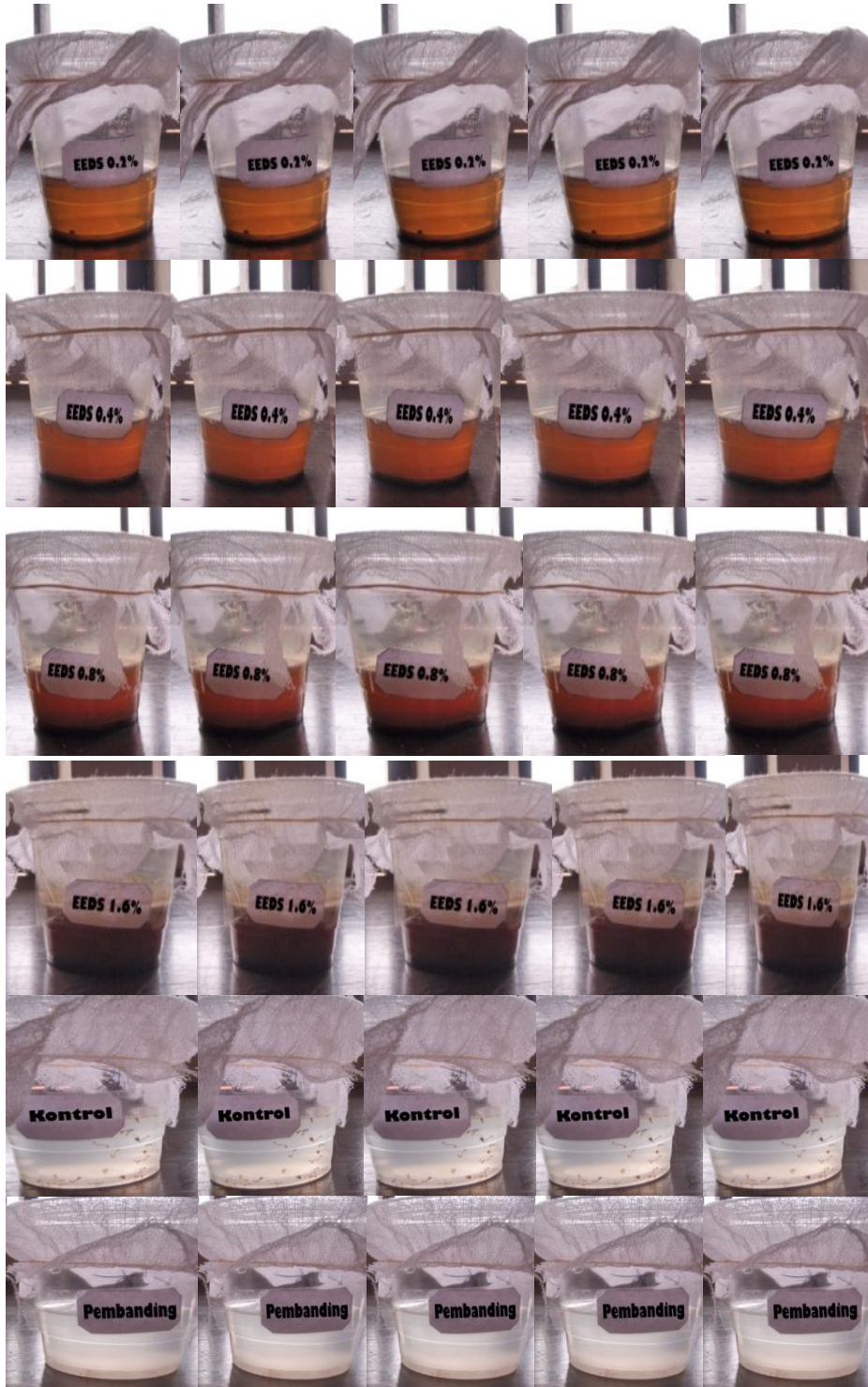
Confidence Limits for Effective Konsentrasi

Prob	Konsentrasi	95% Confidence Limits	
		Lower	Upper
.01	-1.20184	-4.63433	-.61380
.02	-1.00584	-3.95462	-.49696
.03	-.88999	-3.55325	-.42749
.04	-.80693	-3.26576	-.37742
.05	-.74183	-3.04061	-.33798
.06	-.68807	-2.85485	-.30526
.07	-.64213	-2.69624	-.27716
.08	-.60190	-2.55749	-.25244
.09	-.56603	-2.43386	-.23028
.10	-.53359	-2.32216	-.21014
.15	-.40467	-1.87949	-.12885
.20	-.30760	-1.54817	-.06568
.25	-.22743	-1.27665	-.01138
.30	-.15739	-1.04201	.03862
.35	-.09378	-.83223	.08737
.40	-.03426	-.64064	.13767
.45	.02281	-.46398	.19295
.50	.07873	-.30199	.25824
.55	.13466	-.15755	.34108
.60	.19173	-.03524	.45072
.65	.25125	.06346	.59390
.70	.31486	.14355	.77234
.75	.38489	.21314	.98738
.80	.46507	.27994	1.24641
.85	.56213	.35143	1.56941
.90	.69106	.43855	2.00625
.91	.72350	.45966	2.11699
.92	.75937	.48274	2.23969
.93	.79959	.50834	2.37757
.94	.84553	.53728	2.53533
.95	.89929	.57082	2.72027
.96	.96440	.61106	2.94462
.97	1.04745	.66193	3.23131
.98	1.16331	.73224	3.63185
.99	1.35930	.85001	4.31062



Lampiran 6:

Dokumentasi Percobaan



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