LAMPIRAN 1. Hasil Pengamatan Mortalitas Larva *Aedes aegypti* Instar III

1. Pengamatan Jumlah Mortalitas Larva Nyamuk *Aedes aegypti* per 12 JSA (Jam Setelah Aplikasi)

Perlakuan	Konsentrasi (%)	12			24			36			48			60			72		
		I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
Aquades	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ekstrak Etanol Rimpang Alang-Alang	0,3	18	19	17	21	20	19	23	21	19	24	22	22	25	25	25	25	25	25
	0,6	22	20	21	24	22	23	25	25	24	25	25	25	25	25	25	25	25	25
	1,2	22	23	23	23	24	24	25	25	25	25	25	25	25	25	25	25	25	25
	2,4	23	24	23	24	25	24	25	25	25	25	25	25	25	25	25	25	25	25
	4,8	25	24	24	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
Abate	3,54	4	2	5	9	8	11	13	12	15	16	18	20	20	21	23	24	23	25

2. Persentase Mortalitas Larva Nyamuk *Aedes aegypti* Per 12 JSA (Jam Setelah Aplikasi)

Perlakuan		Jumlah Mortalitas (%) Larva Per 12 Jam																	
Jenis	Konsentrasi	12			24			36			48			60			72		
Ekstraksi	($^{V}/_{V}$)	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III	I	II	III
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0,3	72	76	68	84	80	76	92	84	76	96	88	88	100	100	100	100	100	100
Metode	0,6	88	80	84	96	88	92	100	100	96	100	100	100	100	100	100	100	100	100
Maserasi	1,2	88	92	92	92	96	96	100	100	100	100	100	100	100	100	100	100	100	100
	2,4	92	96	92	96	100	96	100	100	100	100	100	100	100	100	100	100	100	100
	4,8	100	96	96	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Abate	3,54	16	8	20	36	32	44	52	48	60	64	72	80	20	21	23	24	23	25

3. Total dan Persentase Koreksi Mortalitas (%) Larva Nyamuk *Aedes aegypti* Per 12 JSA (Jam Setelah Aplikasi)

Perlakuan Konsentrasi (%)	Jumlah Mortalitas Larva Per 12 Jam											
	12		24		36		48		60		72	
	Total	Mortalitas %	Total	Mortalitas %	Total	Mortalitas %	Total	Mortalitas %	Total	Mortalitas %	Total	Mortalitas %
0	0	0	0	0	0	0	0	0	0	0	0	0
0,3	54	72	60	80	63	84	68	90,66667	75	100	54	72
0,6	63	84	69	92	74	98,66667	75	100	75	100	63	84
1,2	68	90,66667	71	94,66667	75	100	75	100	75	100	68	90,66667
2,4	70	93,33333	73	97,33333	75	100	75	100	75	100	70	93,33333
4,8	73	97,33333	75	100	75	100	75	100	75	100	73	97,33333
3,54	11	14,66667	28	37,33333	28	37,33333	54	72	64	85,33333	11	14,66667

Lampiran 2. Hasil Uji Statistik menggunakan Program SPSS 16.

1. Hasil Uji pada 12 JSA (Jam Setelah Aplikasi)

```
NPAR TESTS
  /K-S(NORMAL)=data12 perlakuan12
  /MISSING ANALYSIS.
```

NPar Tests

One-Sample Kolmogorov-Smirnov Test

		data12	perlakuan12
N		21	21
Normal Parameters[a]	Mean	64.5714	4.0000
	Std. Deviation	3.82055E1	2.04939
Most Extreme Differences	Absolute	.250	.121
	Positive	.177	.121
	Negative	-.250	-.121
Kolmogorov-Smirnov Z		1.146	.555
Asymp. Sig. (2-tailed)		.145	.917

a. Test distribution is Normal.

```
ONEWAY dataMaerasi12 BY perlakuan12
  /MISSING ANALYSIS
  /POSTHOC=DUNCAN ALPHA(0.05).
```

Oneway

ANOVA

dataMaerasi12

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	29022.476	6	4837.079	396.792	.000
Within Groups	170.667	14	12.190		
Total	29193.143	20			

Post Hoc Tests
Homogeneous

dataMaerasi12

Duncan

perlakuan12	N	Subset for alpha = 0.05					
		1	2	3	4	5	6
1	3	.0000					
7	3		14.6667				
2	3			72.0000			
3	3				84.0000		
4	3					90.6667	
5	3					93.3333	93.3333
6	3						97.3333
Sig.		1.000	1.000	1.000	1.000	.365	.182

Means for groups in homogeneous subsets are displayed.

2. Hasil Uji pada 24 JSA (Jam Setelah Aplikasi)

```
NPAR TESTS
  /K-S(NORMAL)=data24 perlakuan24
  /MISSING ANALYSIS.
```

NPar Tests

One-Sample Kolmogorov-Smirnov Test

		data24	perlakuan24
N		21	21
Normal Parameters[a]	Mean	71.6190	4.0000
	Std. Deviation	3.64177E1	2.04939
Most Extreme Differences	Absolute	.262	.121
	Positive	.218	.121
	Negative	-.262	-.121
Kolmogorov-Smirnov Z		1.201	.555
Asymp. Sig. (2-tailed)		.112	.917

a. Test distribution is Normal.

```
ONEWAY dataMaserasi24 BY perlakuan24
  /MISSING ANALYSIS
  /POSTHOC=DUNCAN ALPHA(0.05).
```

Oneway

ANOVA

dataMaserasi24

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	26364.952	6	4394.159	384.489	.000
Within Groups	160.000	14	11.429		
Total	26524.952	20			

Post Hoc Tests
Homogeneous

dataMaserasi24

Duncan

perlakuan24	N	Subset for alpha = 0.05				
		1	2	3	4	5
1	3	.0000				
7	3		37.3333			
2	3			80.0000		
3	3				92.0000	
4	3				94.6667	94.6667
5	3				97.3333	97.3333
6	3					1.0000E2
Sig.		1.000	1.000	1.000	.087	.087

Means for groups in homogeneous subsets are displayed.

3. Hasil Uji pada 36 JSA (Jam Setelah Aplikasi)

```
NPAR TESTS
  /K-S(NORMAL)=data36 perlakuan36
  /MISSING ANALYSIS.
```

NPar Tests

One-Sample Kolmogorov-Smirnov Test

		data36	perlakuan36
N		21	21
Normal Parameters[a]	Mean	76.5714	4.0000
	Std. Deviation	3.60508E1	2.04939
Most Extreme Differences	Absolute	.285	.121
	Positive	.258	.121
	Negative	-.285	-.121
Kolmogorov-Smirnov Z		1.305	.555
Asymp. Sig. (2-tailed)		.066	.917

a. Test distribution is Normal.

```
ONEWAY dataMaserasi36 BY perlakuan36
  /MISSING ANALYSIS
  /POSTHOC=DUNCAN ALPHA(0.05).
```

Oneway

ANOVA

dataMaserasi36

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	25779.810	6	4296.635	281.967	.000
Within Groups	213.333	14	15.238		
Total	25993.143	20			

Post Hoc Tests
Homogeneous

dataMaserasi36

Duncan

perlakuan36	N	Subset for alpha = 0.05			
		1	2	3	4
1	3	.0000			
7	3		53.3333		
2	3			84.0000	
3	3				98.6667
4	3				1.0000E2
5	3				1.0000E2
6	3				1.0000E2
Sig.		1.000	1.000	1.000	.705

Means for groups in homogeneous subsets are displayed.

4. Hasil Uji pada 48 JSA (Jam Setelah Aplikasi)

```
NPAR TESTS
  /K-S(NORMAL)=data48 perlakuan48
  /MISSING ANALYSIS.
```

NPar Tests

One-Sample Kolmogorov-Smirnov Test

		data48	perlakuan48
N		21	21
Normal Parameters[a]	Mean	80.3810	4.0000
	Std. Deviation	3.51432E1	2.04939
Most Extreme Differences	Absolute	.300	.121
	Positive	.288	.121
	Negative	-.300	-.121
Kolmogorov-Smirnov Z		1.375	.555
Asymp. Sig. (2-tailed)		.046	.917

a. Test distribution is Normal.

```
ONEWAY dataMaserasi48 BY perlakuan48
  /MISSING ANALYSIS
  /POSTHOC=DUNCAN ALPHA(0.05).
```

Oneway

ANOVA

dataMaserasi48

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	24530.286	6	4088.381	335.375	.000
Within Groups	170.667	14	12.190		
Total	24700.952	20			

Post Hoc Tests
Homogeneous

dataMaserasi48

Duncan

perlakuan48	N	Subset for alpha = 0.05			
		1	2	3	4
1	3	.0000			
7	3		72.0000		
2	3			90.6667	
3	3				1.0000E2
4	3				1.0000E2
5	3				1.0000E2
6	3				1.0000E2
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

5. Hasil Uji pada 60 JSA (Jam Setelah Aplikasi)

```
NPAR TESTS
  /K-S(NORMAL)=data60 perlakuan60
  /MISSING ANALYSIS.
```

NPar Tests

One-Sample Kolmogorov-Smirnov Test

		data60	perlakuan60
N		21	21
Normal Parameters[a]	Mean	83.6190	4.0000
	Std. Deviation	3.54154E1	2.04939
Most Extreme Differences	Absolute	.392	.121
	Positive	.322	.121
	Negative	-.392	-.121
Kolmogorov-Smirnov Z		1.798	.555
Asymp. Sig. (2-tailed)		.003	.917

a. Test distribution is Normal.

```
ONEWAY dataMaserasi60 BY perlakuan60
  /MISSING ANALYSIS
  /POSTHOC=DUNCAN ALPHA(0.05).
```

Oneway

ANOVA

dataMaserasi60

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	25010.286	6	4168.381	781.571	.000
Within Groups	74.667	14	5.333		
Total	25084.952	20			

Post Hoc Tests
Homogeneous

dataMaserasi60

Duncan

perlakuan60	N	Subset for alpha = 0.05		
		1	2	3
1	3	.0000		
7	3		85.3333	
2	3			1.0000E2
3	3			1.0000E2
4	3			1.0000E2
5	3			1.0000E2
6	3			1.0000E2
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

6. Hasil Uji pada 72 JSA (Jam Setelah Aplikasi)

```
NPAR TESTS
  /K-S(NORMAL)=data72 perlakuan72
  /MISSING ANALYSIS.
```

NPar Tests

One-Sample Kolmogorov-Smirnov Test

		data72	perlakuan72
N		21	21
Normal Parameters[a]	Mean	85.1429	4.0000
	Std. Deviation	3.56683E1	2.04939
Most Extreme Differences	Absolute	.433	.121
	Positive	.339	.121
	Negative	-.433	-.121
Kolmogorov-Smirnov Z		1.986	.555
Asymp. Sig. (2-tailed)		.001	.917

a. Test distribution is Normal.

```
ONEWAY dataMaserasi72 BY perlakuan72
  /MISSING ANALYSIS
  /POSTHOC=DUNCAN ALPHA(0.05).
```

Oneway

ANOVA

dataMaserasi72

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	25412.571	6	4235.429	1.853E3	.000
Within Groups	32.000	14	2.286		
Total	25444.571	20			

Post Hoc Tests
Homogeneous

dataMaserasi72

Duncan

perlakuan72	N	Subset for alpha = 0.05		
		1	2	3
1	3	.0000		
7	3		96.0000	
2	3			1.0000E2
3	3			1.0000E2
4	3			1.0000E2
5	3			1.0000E2
6	3			1.0000E2
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Lampiran 3. Hasil Analisis Probit Menggunakan SPSS 16.

1. Hasil Analisis Probit 12 JSA

```
PROBIT mortalitas12 OF total12 WITH konsentrasi12
  /LOG 10
  /MODEL PROBIT
  /PRINT FREQ CI
  /CRITERIA P(0.15) ITERATE(20) STEPLIMIT(.1).
```

Probit Analysis

Chi-Square Tests

		Chi-Square	df[a]	Sig.
PROBIT	Pearson Goodness-of-Fit Test	.383	3	.944[b]

Confidence Limits

No.	Point	95% Confidence Limits for konsentrasi		
		Estimate	Lower Bound	Upper Bound
1	LC_{10}	.005	.000	.023
2	LC_{20}	.013	.001	.045
3	LC_{30}	.026	.002	.073
4	LC_{40}	.046	.006	.112
5	LC_{50}	.080	.015	.167
6	LC_{60}	.137	.037	.250
7	LC_{70}	.245	.095	.391
8	LC_{80}	.483	.272	.699
9	LC_{90}	1.238	.857	2.127
10	LC_{99}	11.590	5.032	77.657

a. Logarithm base = 10.

2. Hasil Analisis Probit 24 JSA

```
PROBIT mortalitas24 OF total24 WITH konsentrasi24
  /LOG 10
  /MODEL PROBIT
  /PRINT FREQ CI
  /CRITERIA P(0.15) ITERATE(20) STEPLIMIT(.1).
```

Probit Analysis

Chi-Square Tests

	Chi-Square	df[a]	Sig.

PROBIT	Pearson Goodness-of-Fit Test	1.284	3	.733[b]

Confidence Limits

No.	Point	95% Confidence Limits for konsentrasi		
		Estimate	Lower Bound	Upper Bound
1	LC_{10}	.008	.000	.032
2	LC_{20}	.017	.001	.053
3	LC_{30}	.029	.002	.078
4	LC_{40}	.045	.005	.107
5	LC_{50}	.069	.011	.145
6	LC_{60}	.106	.024	.198
7	LC_{70}	.168	.053	.278
8	LC_{80}	.286	.131	.423
9	LC_{90}	.599	.400	.873
10	LC_{99}	3.466	1.903	14.438

a. Logarithm base = 10.

3. Data Maserasi Hasil Analisis Probit 36 JSA

```
PROBIT mortalitas36 OF total36 WITH konsentrasi36
  /LOG 10
  /MODEL PROBIT
  /PRINT FREQ CI
  /CRITERIA P(0.15) ITERATE(20) STEPLIMIT(.1).
```

Probit Analysis

Chi-Square Tests

	Chi-Square	df[a]	Sig.
Pearson Goodness-of-Fit Test	1.284	3	.733[b]

Confidence Limits

No.	Point	95% Confidence Limits for konsentrasi		
		Estimate	Lower Bound	Upper Bound
1	LC_{10}	.085	.008	.147
2	LC_{20}	.108	.015	.172
3	LC_{30}	.129	.024	.192

4	LC_{40}	.150	.036	.212
5	LC_{50}	.173	.053	.232
6	LC_{60}	.199	.077	.255
7	LC_{70}	.231	.114	.284
8	LC_{80}	.276	.177	.328
9	LC_{90}	.352	.289	.454
10	LC_{99}	.630	.477	1.888

4. Data Maserasi Hasil Analisis Probit 48 JSA

```
PROBIT mortalitas48 OF total48 WITH konsentrasi48
  /LOG 10
  /MODEL PROBIT
  /PRINT FREQ CI
  /CRITERIA P(0.15) ITERATE(20) STEPLIMIT(.1).
```

Probit Analysis

Chi-Square Tests

		Chi-Square	df[a]	Sig.
PROBIT	Pearson Goodness-of-Fit Test	.158	3	.984[b]

Confidence Limits				
No.	Point	95% Confidence Limits for konsentrasi		
		Estimate	Lower Bound	Upper Bound
1	LC_{10}	.102	-	-
2	LC_{20}	.122	-	-
3	LC_{30}	.140	-	-
4	LC_{40}	.157	-	-
5	LC_{50}	.175	-	-
6	LC_{60}	.194	-	-
7	LC_{70}	.218	-	-
8	LC_{80}	.249	-	-
9	LC_{90}	.300	-	-
10	LC_{99}	.483	-	-

a. Logarithm base = 10.

Data Maserasi Hasil Analisis Probit 60 JSA

```
PROBIT mortalitas60 OF total60 WITH konsentrasi60
  /LOG 10
  /MODEL PROBIT
  /PRINT FREQ CI
  /CRITERIA P(0.15) ITERATE(20) STEPLIMIT(.1).
```

Probit Analysis

Warnings

No statistics are computed because the ratios of response counts to subject counts are the same, i.e. the slope is zero.

Data Information

		N of Cases
Valid		5
Rejected	Missing	0
	LOG Transform Cannot be Done	0
	Number of Responses > Number of Subjects	0
Control Group		1

5. Data Maserasi Hasil Analisis Probit 72 JSA

```
PROBIT mortalitas72 OF total72 WITH konsentrasi72
  /LOG 10
  /MODEL PROBIT
  /PRINT FREQ CI
  /CRITERIA P(0.15) ITERATE(20) STEPLIMIT(.1).
```

Probit Analysis

Warnings

No statistics are computed because the ratios of response counts to subject counts are the same, i.e. the slope is zero.

Data Information

		N of Cases
Valid		5
Rejected	Missing	0
	LOG Transform Cannot be Done	0
	Number of Responses > Number of Subjects	0
Control Group		1

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Jabatan : Kepala Laboratorium Entomologi Dinas Kesehatan Provinsi Jawa Timur

Dengan ini menerangkan bahwa :

Nama : INDRA FARIDA

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Judul Skripsi : Efektifitas Ekstak Rimpang Alang-Alang (*Imperata cylindrica*) sebagai Larvasida Nyamuk *Aedes aegypti* Instar III

Bahwa dalam penelitiannya benar-benar menggunakan bahan **telur nyamuk *Aedes aegypti*** strain Surabaya Generasi ke VIII dari Laboratorium Entomologi Dinas Kesehatan Provinsi Jawa Timur.

Demikian surat keterangan ini kami buat dengan sesungguhnya dan dapat dipergunakan sebagaimana mestinya.

Surabaya, 10 Mei 2013

LABORATORIUM ENTOMOLOGI

DINAS KESEHATAN PROVINSI

JAWA TIMUR

PEMERINTAH PROVINSI JAWA TIMUR
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Pembimbing : Dr. Evika Sandi Savitri, M. P
Judul : Efektivitas Ekstrak Etanol Rimpang Alang-Alang (*Imperata cylindrica*) Sebagai Larvasida Nyamuk (*Aedes aegypti* L.) Instar III.

No.	Tanggal	Hal yang dikonsultasikan	Tanda Tangan
1.	17 Januari 2013	Pengajuan Bab I	1.
2.	25 Januari 2013	Revisi Bab I dan pengajuan bab II, III	2.
3.	01 Februari 2013	Revisi Bab I, II, III	3.
4.	12 April 2013	Acc Bab I, II, III	4.
5.	26 April 2013	Seminar Proposal	5.
6.	31 Mei 2013	Revisi Bab I, II dan III	6.
7.	19 Juni 2013	Pengajuan Bab IV	7.
8.	27 Juni 2013	Revisi Bab IV dan pengajuan Bab V	8.
9.	28 Juni 2013	Revisi Bab IV dan V	9.
10.	01Juli 2013	Acc Keseluruhan	10.
11.	05 Juli 2013	Revisi Bab IV dan V	11.
12.	06 Juli 2013	Acc Skripsi	12.

Malang, 01 Juli 2013
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No.	Tanggal	Hal yang dikonsultasikan	Tanda Tangan
1.	25 Maret 2013	Pengajuan Bab I, II	1.
	15 April 2013	Revisi Bab I, II, dan III	
2.	01 Mei 2013	Revisi Bab I, II, III, IV dan V	2.
3.	15 juni 2013	Revisi Bab I, II, III, IV dan V	3.
4.	29 Juli 2013	Acc Skripsi	4.

Malang, 01 Juli 2013
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