

## LAMPIRAN 1

### PERHITUNGAN HARGA $LC_{50}$ DARI MASING-MASING EKSTRAK DENGAN FINNEY COMPUTER PROGRAM

#### A. Ulangan I

##### 1. Ekstrak etanol Solanum nigrum

FINNEY'S PROBIT ANALYSIS FOR QUANTAL DATA  
CALCULATES ED50, LD50, ETC.

DATA REQUIRED FOR EACH DOSE:

N - THE NUMBER OF SHRIMP AT THAT DOSE LEVEL  
P - THE NUMBER OF SHRIMP KILLED  
D - THE ARITHMETRIC DOSE

ENTER NUMBER OF DOSE LEVELS USED ? 5

ENTER DATA

N	P	D
>30	>4	>200.8
>30	>9	>301.2
>30	>17	>401.6
>30	>28	>502
>30	>30	>602.4

DO YOU WANT TO PRINT THE CALCULATED VALUES (Y/N)?

EXPECTED PROBITS

3.458  
4.604  
5.418  
6.049  
6.564

CALCULATED PROBITS:

3.526  
4.681  
5.500  
6.135  
6.654

CHI SQUARED FOR 3 DEGREE(S) OF FREEDOM = 6.6058

ED50 = 336.9363

G = 0.0708

UPPER CONFIDENCE LIMIT = 367.3177

LOWER CONFIDENCE LIMIT = 304.2753

DO YOU WANT TO ENTER A NEW DATA SET (Y/N)?

2. Ekstrak etanol Solanum torvumFINNEY'S PROBIT ANALYSIS FOR QUANTAL DATA  
CALCULATES ED50, LD50, ETC.

DATA REQUIRED FOR EACH DOSE:

N - THE NUMBER OF SHRIMP AT THAT DOSE LEVEL  
 P - THE NUMBER OF SHRIMP KILLED  
 D - THE ARITHMETRIC DOSE

ENTER NUMBER OF DOSE LEVELS USED ? 5

ENTER DATA

N	P	D
>30	>1	>1004
>30	>6	>1506
>30	>16	>2008
>30	>25	>2510
>30	>30	>3012

DO YOU WANT TO PRINT THE CALCULATED VALUES (Y/N)? ■

EXPECTED PROBITS

2.710  
 4.150  
 5.172  
 5.964  
 6.612

CALCULATED PROBITS:

2.786  
 4.213  
 5.223  
 6.012  
 6.654

CHI SQUARED FOR 3 DEGREE(S) OF FREEDOM = 2.4730

ED50 = 1882.9490

G = 0.0747

UPPER CONFIDENCE LIMIT = 2027.9660

LOWER CONFIDENCE LIMIT = 1729.9850

DO YOU WANT TO ENTER A NEW DATA SET (Y/N)? ■

3. Ekstrak etanol Solanum indicumFINNEY'S PROBIT ANALYSIS FOR QUANTAL DATA  
CALCULATES ED50, LD50, ETC.

DATA REQUIRED FOR EACH DOSE:

N - THE NUMBER OF SHRIMP AT THAT DOSE LEVEL  
 P - THE NUMBER OF SHRIMP KILLED  
 D - THE ARITHMETRIC DOSE

ENTER NUMBER OF DOSE LEVELS USED ? 5

ENTER DATA

N	P	D
>30	>3	>100.2
>30	>8	>200.4
>30	>21	>300.6
>30	>29	>400.8
>30	>30	>501

DO YOU WANT TO PRINT THE CALCULATED VALUES (Y/N)? 

EXPECTED PROBITS

3.158  
 4.700  
 5.602  
 6.242  
 6.738

CALCULATED PROBITS:

3.235  
 4.774  
 5.673  
 6.312  
 6.807

CHI SQUARED FOR 3 DEGREE(S) OF FREEDOM = 8.2360

ED50 = 221.9297

G = 0.0728

UPPER CONFIDENCE LIMIT = 249.8109

LOWER CONFIDENCE LIMIT = 191.6440

DO YOU WANT TO ENTER A NEW DATA SET (Y/N)?

4. Ekstrak etanol Solanum chasianumFINNEY'S PROBIT ANALYSIS FOR QUANTAL DATA  
CALCULATES ED50, LD50, ETC.

DATA REQUIRED FOR EACH DOSE:

N - THE NUMBER OF SHRIMP AT THAT DOSE LEVEL  
 P - THE NUMBER OF SHRIMP KILLED  
 D - THE ARITHMETRIC DOSE

ENTER NUMBER OF DOSE LEVELS USED ? 5

ENTER DATA

N	P	D
>30	>1	>100.6
>30	>5	>201.2
>30	>16	>301.8
>30	>25	>402.4
>30	>30	>503

DO YOU WANT TO PRINT THE CALCULATED VALUES (Y/N)? 

EXPECTED PROBITS

2.423  
 4.158  
 5.174  
 5.894  
 6.452

CALCULATED PROBITS:

2.461  
 4.215  
 5.231  
 5.969  
 6.533

CHI SQUARED FOR 3 DEGREE(S) OF FREEDOM = 6.7914

ED50 = 274.3891

G = 0.0820

UPPER CONFIDENCE LIMIT = 303.9004

LOWER CONFIDENCE LIMIT = 242.7283

DO YOU WANT TO ENTER A NEW DATA SET (Y/N)?



5. Ekstrak etanol Solanum verbascifolium

FINNEY'S PROBIT ANALYSIS FOR QUANTAL DATA  
CALCULATES ED50, LD50, ETC.

DATA REQUIRED FOR EACH DOSE:

N - THE NUMBER OF SHRIMP AT THAT DOSE LEVEL  
P - THE NUMBER OF SHRIMP KILLED  
D - THE ARITHMETRIC DOSE

ENTER NUMBER OF DOSE LEVELS USED ? 5

ENTER DATA

N	P	D
>30	>1	>301.8
>30	>7	>402.4
>30	>16	>503
>30	>26	>603.6
>30	>30	>704.2

DO YOU WANT TO PRINT THE CALCULATED VALUES (Y/N)?

EXPECTED PROBITS

2.852  
4.189  
5.227  
6.074  
6.791

CALCULATED PROBITS:

2.939  
4.249  
5.265  
6.095  
6.797

CHI SQUARED FOR 3 DEGREE(S) OF FREEDOM = 1.6017

ED50 = 474.5751

G = 0.0724

UPPER CONFIDENCE LIMIT = 503.0995

LOWER CONFIDENCE LIMIT = 444.6182

DO YOU WANT TO ENTER A NEW DATA SET (Y/N)?

## B. ULANGAN II

1. Ekstrak etanol Solanum nigrumFINNEY'S PROBIT ANALYSIS FOR QUANTAL DATA  
CALCULATES ED50, LD50, ETC.

DATA REQUIRED FOR EACH DOSE:

N - THE NUMBER OF SHRIMP AT THAT DOSE LEVEL  
 P - THE NUMBER OF SHRIMP KILLED  
 D - THE ARTHIMETRIC DOSE

ENTER NUMBER OF DOSE LEVELS USED ? 5

ENTER DATA

N	P	D
>30	>3	>201.2
>30	>10	>301.8
>30	>16	>402.4
>30	>28	>503
>30	>30	>603.6

DO YOU WANT TO PRINT THE CALCULATED VALUES (Y/N)? ■

EXPECTED PROBITS

3.334  
 4.541  
 5.397  
 6.062  
 6.604

CALCULATED PROBITS:

3.425  
 4.627  
 5.479  
 6.141  
 6.681

CHI SQUARED FOR 3 DEGREE(S) OF FREEDOM = 5.9335

ED50 = 342.3017

G = 0.0712

UPPER CONFIDENCE LIMIT = 372.3513

LOWER CONFIDENCE LIMIT = 309.9833

DO YOU WANT TO ENTER A NEW DATA SET (Y/N)? ■

## 2. Ekstrak etanol Solanum torvum

### FINNEY'S PROBIT ANALYSIS FOR QUANTAL DATA CALCULATES ED50, LD50, ETC.

DATA REQUIRED FOR EACH DOSE:

N - THE NUMBER OF SHRIMP AT THAT DOSE LEVEL  
P - THE NUMBER OF SHRIMP KILLED  
D - THE ARITHMETRIC DOSE

ENTER NUMBER OF DOSE LEVELS USED ? 5

ENTER DATA

N	P	D
>30	>2	>1012
>30	>7	>1518
>30	>17	>2024
>30	>28	>2530
>30	>30	>3036

DO YOU WANT TO PRINT THE CALCULATED VALUES (Y/N)?

EXPECTED PROBITS

3.002  
4.378  
5.355  
6.113  
6.732

CALCULATED PROBITS:

3.052  
4.439  
5.423  
6.187  
6.810

CHI SQUARED FOR 3 DEGREE(S) OF FREEDOM = 5.0690

ED50 = 1788.4910

G = 0.0692

UPPER CONFIDENCE LIMIT = 1929.8490

LOWER CONFIDENCE LIMIT = 1637.5790

DO YOU WANT TO ENTER A NEW DATA SET (Y/N)?

### 3. Ekstrak etanol Solanum indicum

#### FINNEY'S PROBIT ANALYSIS FOR QUANTAL DATA CALCULATES ED50, LD50, ETC.

DATA REQUIRED FOR EACH DOSE:

N - THE NUMBER OF SHRIMP  
P - THE NUMBER OF SHRIMP KILLED  
D - THE ARITHMETRIC DOSE

ENTER NUMBER OF DOSE LEVELS USED ? 5

ENTER DATA

N	P	D
>30	>3	>100.6
>30	>7	>201.2
>30	>19	>301.8
>30	>28	>402.4
>30	>30	>503

DO YOU WANT TO PRINT THE CALCULATED VALUES (Y/N)? y

EXPECTED PROBITS

3.121  
4.603  
5.470  
6.086  
6.563

CALCULATED PROBITS:

3.195  
4.674  
5.539  
6.153  
6.630

CHI SQUARED FOR 3 DEGREE(S) OF FREEDOM = 9.3259

ED50 = 234.4048

G = 0.0749

UPPER CONFIDENCE LIMIT = 264.0435

LOWER CONFIDENCE LIMIT = 202.5689

DO YOU WANT TO ENTER A NEW DATA SET (Y/N)?

4. Ekstrak etanol Solanum chasianumFINNEY'S PROBIT ANALYSIS FOR QUANTAL DATA  
CALCULATES ED50, LD50, ETC.

DATA REQUIRED FOR EACH DOSE:

N - THE NUMBER OF SHRIMP AT THAT DOSE LEVEL  
 P - THE NUMBER OF SHRIMP KILLED  
 D - THE ARITHMETRIC DOSE

ENTER NUMBER OF DOSE LEVELS USED ? 5

ENTER DATA

N	P	D
>30	>2	>100.4
>30	>8	>200.8
>30	>16	>301.2
>30	>23	>401.6
>30	>30	>502

DO YOU WANT TO PRINT THE CALCULATED VALUES (Y/N)? 

EXPECTED PROBITS

3.046  
 4.398  
 5.189  
 5.750  
 6.186

CALCULATED PROBITS:

3.138  
 4.493  
 5.285  
 5.848  
 6.284

CHI SQUARED FOR 3 DEGREE(S) OF FREEDOM = 5.0407

ED50 = 260.2713

G = 0.0833

UPPER CONFIDENCE LIMIT = 294.3085

LOWER CONFIDENCE LIMIT = 224.8967

DO YOU WANT TO ENTER A NEW DATA SET (Y/N)?

5. Ekstrak etanol Solanum verbascifolium

FINNEY'S PROBIT ANALYSIS FOR QUANTAL DATA  
CALCULATES ED50, LD50, ETC.

DATA REQUIRED FOR EACH DOSE:

N - THE NUMBER OF SHRIMP AT THAT DOSE LEVEL  
P - THE NUMBER OF SHRIMP KILLED  
D - THE ARITHMETRIC DOSE

ENTER NUMBER OF DOSE LEVELS USED ? 5

ENTER DATA

N	P	D
>30	>4	>300.6
>30	>8	>400.8
>30	>18	>501
>30	>24	>601.2
>30	>30	>701.4

DO YOU WANT TO PRINT THE CALCULATED VALUES (Y/N)?

EXPECTED PROBITS	CALCULATED PROBITS:
3.558	3.600
4.530	4.580
5.284	5.340
5.901	5.961
6.422	6.486

CHI SQUARED FOR 3 DEGREE(S) OF FREEDOM = 3.6619

ED50 = 453.4341

G = 0.0738

UPPER CONFIDENCE LIMIT = 486.2876

LOWER CONFIDENCE LIMIT = 418.8730

DO YOU WANT TO ENTER A NEW DATA SET (Y/N)?



## C. ULANGAN III

1. Ekstrak etanol Solanum nigrumFINNEY'S PROBIT ANALYSIS FOR QUANTAL DATA  
CALCULATES ED50, LD50, ETC.

DATA REQUIRED FOR EACH DOSE:

N - THE NUMBER OF SHRIMP AT THAT DOSE LEVEL  
 P - THE NUMBER OF SHRIMP KILLED  
 D - THE ARITHMETRIC DOSE

ENTER NUMBER OF DOSE LEVELS USED ? 5

ENTER DATA

N	P	D
>30	>2	>200.8
>30	>7	>301.2
>30	>16	>401.6
>30	>27	>502
>30	>30	>602.4

DO YOU WANT TO PRINT THE CALCULATED VALUES (Y/N)? 

EXPECTED PROBITS

3.031  
 4.349  
 5.284  
 6.010  
 6.603

CALCULATED PROBITS:

3.071  
 4.405  
 5.352  
 6.087  
 6.611

CHI SQUARED FOR 3 DEGREE(S) OF FREEDOM = 4.7169

ED50 = 360.8441

G = 0.0695

UPPER CONFIDENCE LIMIT = 389.8835

LOWER CONFIDENCE LIMIT = 330.1533

DO YOU WANT TO ENTER A NEW DATA SET (Y/N)?

2. Ekstrak etanol Solanum torvumFINNEY'S PROBIT ANALYSIS FOR QUANTAL DATA  
CALCULATES ED50, LD50, ETC.

DATA REQUIRED FOR EACH DOSE:

N - THE NUMBER OF SHRIMP AT THAT DOSE LEVEL  
 P - THE NUMBER OF SHRIMP KILLED  
 D - THE ARITHMETRIC DOSE

ENTER NUMBER OF DOSE LEVELS USED ? 5

ENTER DATA

N	P	D
>30	>2	>1012
>30	>7	>1518
>30	>16	>2024
>30	>27	>2530
>30	>30	>3036

DO YOU WANT TO PRINT THE CALCULATED VALUES (Y/N)? 

EXPECTED PROBITS

3.031  
 4.349  
 5.284  
 6.010  
 6.603

CALCULATED PROBITS:

3.071  
 4.405  
 5.352  
 6.087  
 6.687

CHI SQUARED FOR 3 DEGREE(S) OF FREEDOM = 4.7183

ED50 = 1818.5910

G = 0.0695

UPPER CONFIDENCE LIMIT = 1964.9500

LOWER CONFIDENCE LIMIT = 1663.9110

DO YOU WANT TO ENTER A NEW DATA SET (Y/N)?

3. Ekstrak etanol Solanum indicumFINNEY'S PROBIT ANALYSIS FOR QUANTAL DATA  
CALCULATES ED50, LD50, ETC.

DATA REQUIRED FOR EACH DOSE:

N - THE NUMBER OF SHRIMP AT THAT DOSE LEVEL  
 P - THE NUMBER OF SHRIMP KILLED  
 D - THE ARITHMETRIC DOSE

ENTER NUMBER OF DOSE LEVELS USED ? 5

ENTER DATA

N	P	D
>30	>2	>100.4
>30	>6	>200.8
>30	>16	>301.2
>30	>25	>401.6
>30	>30	>502

DO YOU WANT TO PRINT THE CALCULATED VALUES (Y/N)? 

EXPECTED PROBITS

2.875  
 4.353  
 5.218  
 5.831  
 6.307

CALCULATED PROBITS:

2.932  
 4.426  
 5.300  
 5.920  
 6.401

CHI SQUARED FOR 3 DEGREE(S) OF FREEDOM = 7.7597

ED50 = 262.0188

G = 0.0800

UPPER CONFIDENCE LIMIT = 293.8109

LOWER CONFIDENCE LIMIT = 228.5428

DO YOU WANT TO ENTER A NEW DATA SET (Y/N)?

4. Ekstrak etanol Solanum chasianumFINNEY'S PROBIT ANALYSIS FOR QUANTAL DATA  
CALCULATES ED50, LD50, ETC.

DATA REQUIRED FOR EACH DOSE:

N - THE NUMBER OF SHRIMP AT THAT DOSE LEVEL  
 P - THE NUMBER OF SHRIMP KILLED  
 D - THE ARITHMETRIC DOSE

ENTER NUMBER OF DOSE LEVELS USED ? 5

ENTER DATA

N	P	D
>30	>3	>100.2
>30	>7	>200.4
>30	>18	>300.6
>30	>24	>400.8
>30	>30	>501

DO YOU WANT TO PRINT THE CALCULATED VALUES (Y/N)? 

EXPECTED PROBITS

3.199  
 4.520  
 5.293  
 5.842  
 6.267

CALCULATED PROBITS:

3.286  
 4.599  
 5.367  
 5.912  
 6.335

CHI SQUARED FOR 3 DEGREE(S) OF FREEDOM = 6.9692

ED50 = 247.6183

G = 0.0815

UPPER CONFIDENCE LIMIT = 281.1176

LOWER CONFIDENCE LIMIT = 212.7054

DO YOU WANT TO ENTER A NEW DATA SET (Y/N)?

5. Ekstrak etanol Solanum verbascifoliumFINNEY'S PROBIT ANALYSIS FOR QUANTAL DATA  
CALCULATES ED50, LD50, ETC.

DATA REQUIRED FOR EACH DOSE:

N - THE NUMBER OF SHRIMP AT THAT DOSE LEVEL  
 P - THE NUMBER OF SHRIMP KILLED  
 D - THE ARITHMETRIC DOSE

ENTER NUMBER OF DOSE LEVELS USED ? 5

ENTER DATA

N	P	D
>30	>3	>301.8
>30	>7	>402.4
>30	>16	>503
>30	>25	>603.6
>30	>30	>704.2

DO YOU WANT TO PRINT THE CALCULATED VALUES (Y/N)? ■

EXPECTED PROBITS	CALCULATED PROBITS
3.305	3.361
4.383	4.442
5.218	5.280
5.901	5.964
6.478	6.543

CHI SQUARED FOR 3 DEGREE(S) OF FREEDOM = 4.1129

ED50 = 466.9159

G = 0.0710

UPPER CONFIDENCE LIMIT = 498.4341

LOWER CONFIDENCE LIMIT = 434.0395

DO YOU WANT TO ENTER A NEW DATA SET (Y/N)? ■



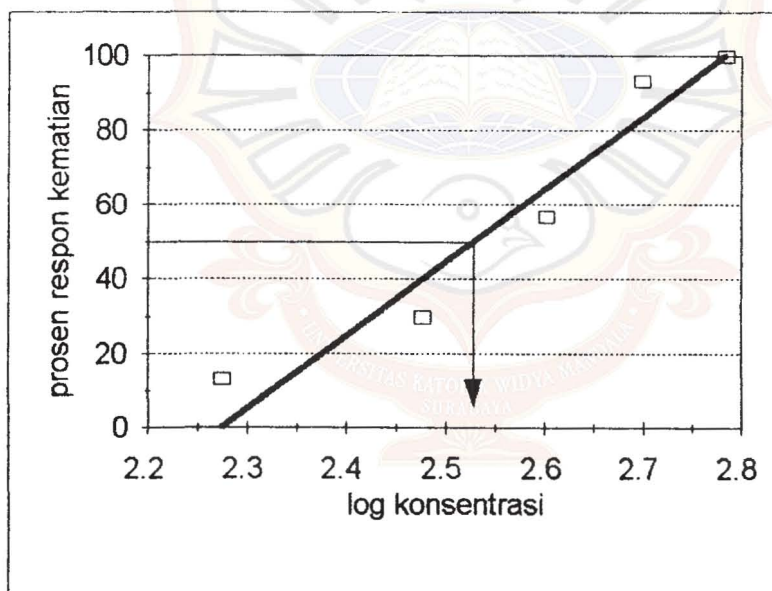
## LAMPIRAN II

### PERHITUNGAN HARGA $LC_{50}$ DARI MASING-MASING EKSTRAK DENGAN CARA GRAFIK

#### A. Ulangan 1

##### 1. Ekstrak etanol Solanum nigrum

Konsentrasi (ppm)	Prosentase Respon Kematian
200,8	13,33
301,2	30
401,6	56,67
502	93,33
602,4	100



Grafik hubungan log konsentrasi larutan ekstrak uji dengan prosentase kematian nauplii, dalam ekstrak etanol Solanum nigrum pada ulangan I.

Persamaan garis regresi  $y = 196,3163 x - 446,4953$

Untuk  $y=50$ , maka  $x=2,5291$

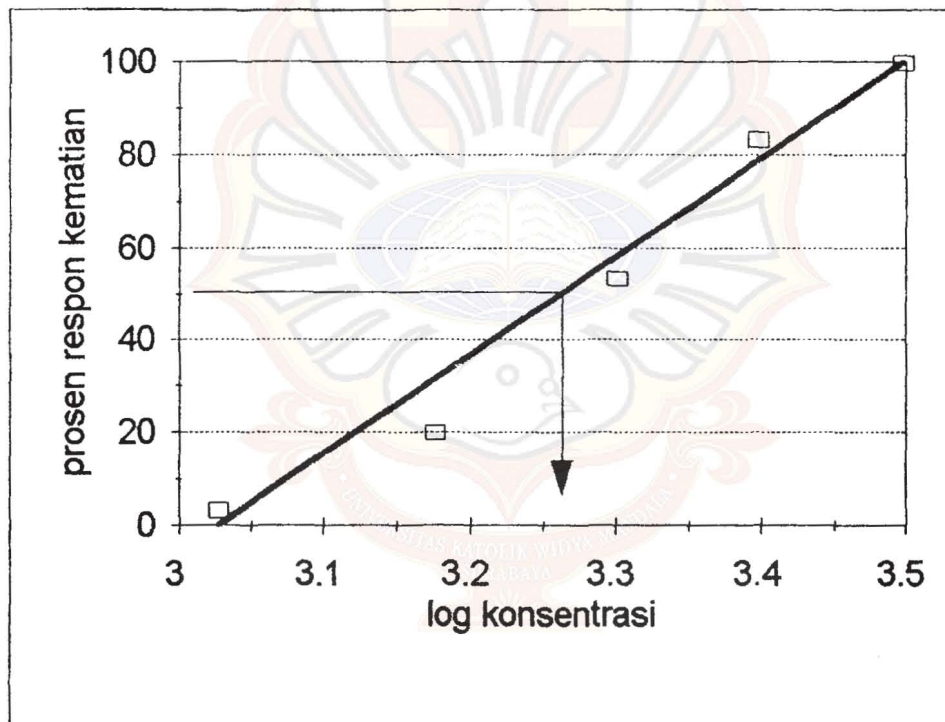
$x = \text{logaritma konsentrasi ekstrak} = 2,5291$

jadi konsentrasi  $LC_{50}$  ekstrak = 338,1093 ppm



## 2. Ekstrak etanol Solanum torvum

Konsentrasi (ppm)	Prosentase Respon Kematian
1004	3,33
1506	20
2008	53,33
2510	83,33
3012	100



Grafik hubungan log konsentrasi larutan ekstrak uji dengan prosentase kematian nauplii, dalam ekstrak etanol Solanum tovvum pada ulangan I.

Persamaan garis regresi  $y = 212,3123 x - 642,7239$

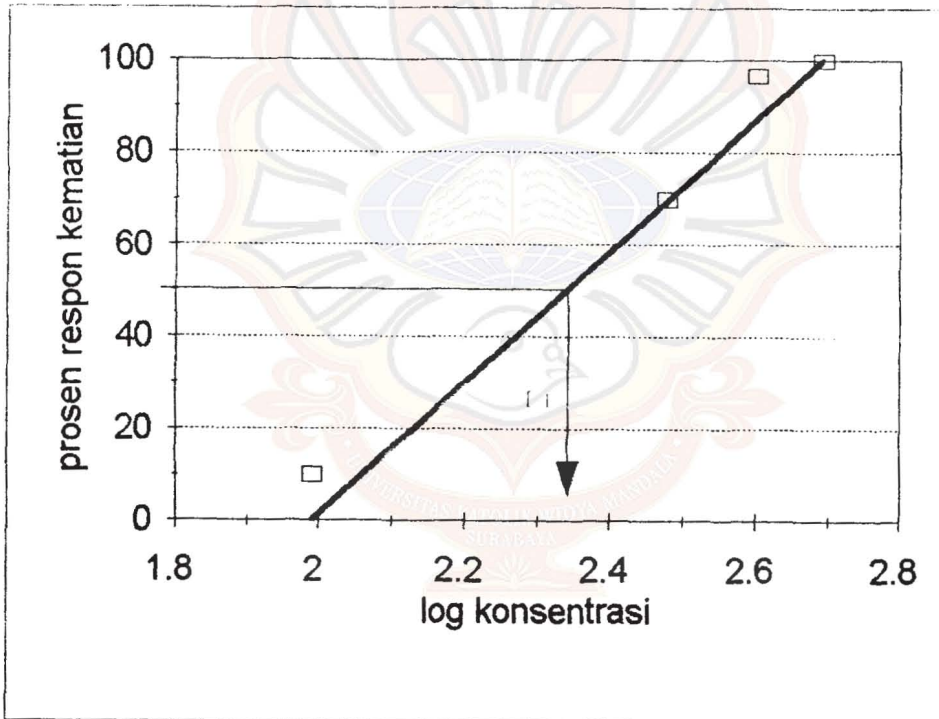
Untuk  $y=50$ , maka  $x=3,2628$

$x = \text{logaritma konsentrasi ekstrak} = 3,2628$

jadi konsentrasi  $LC_{50}$  ekstrak = 1831,3002

### 3. Ekstrak etanol Solanum indicum

Konsentrasi (ppm)	Prosentase Respon Kematian
100,2	10
200,4	26,67
300,6	70
400,8	96,67
501	100



Grafik hubungan log konsentrasi larutan ekstrak uji dengan prosentase kematian nauplii, dalam ekstrak etanol Solanum indicum pada ulangan I.

Persamaan garis regresi  $y = 142,3870 x - 283,4392$

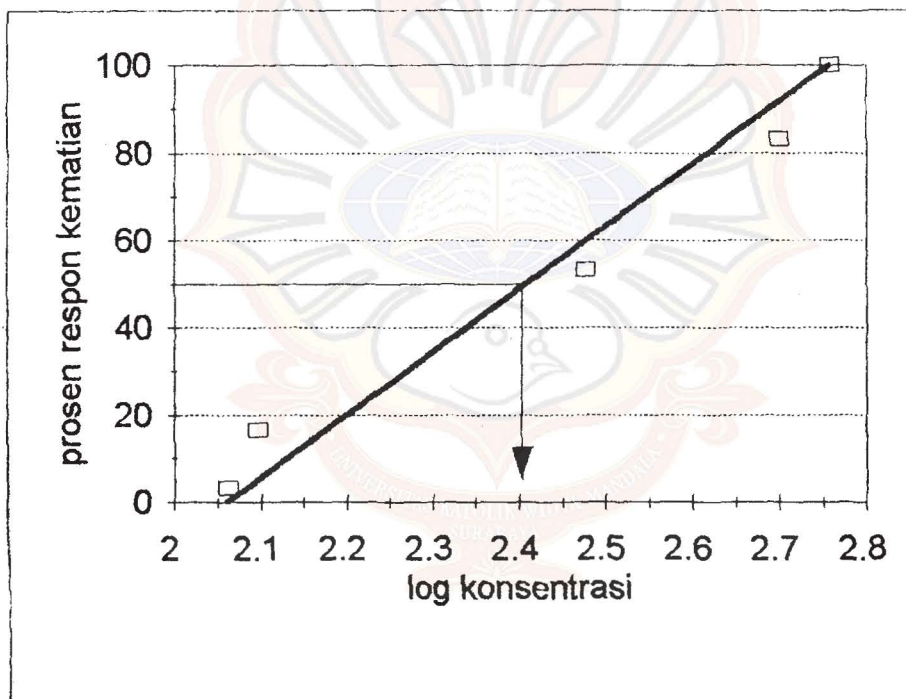
Untuk  $y=50$ , maka  $x=2,3418$

$x = \text{logaritma konsentrasi ekstrak} = 2,3418$

jadi konsentrasi  $LC_{50}$  ekstrak = 219,6754 ppm

4. Ekstrak etanol Solanum chasianum

Konsentrasi (ppm)	Prosentase Respon Kematian
100,6	3,33
201,2	16,67
301,8	53,33
402,4	83,33
503	100



Grafik hubungan log konsentrasi larutan ekstrak uji dengan prosentase kematian nauplii, dalam ekstrak etanol Solanum chasianum pada ulangan I.

Persamaan garis regresi  $y = 143,7517 x - 296,3221$

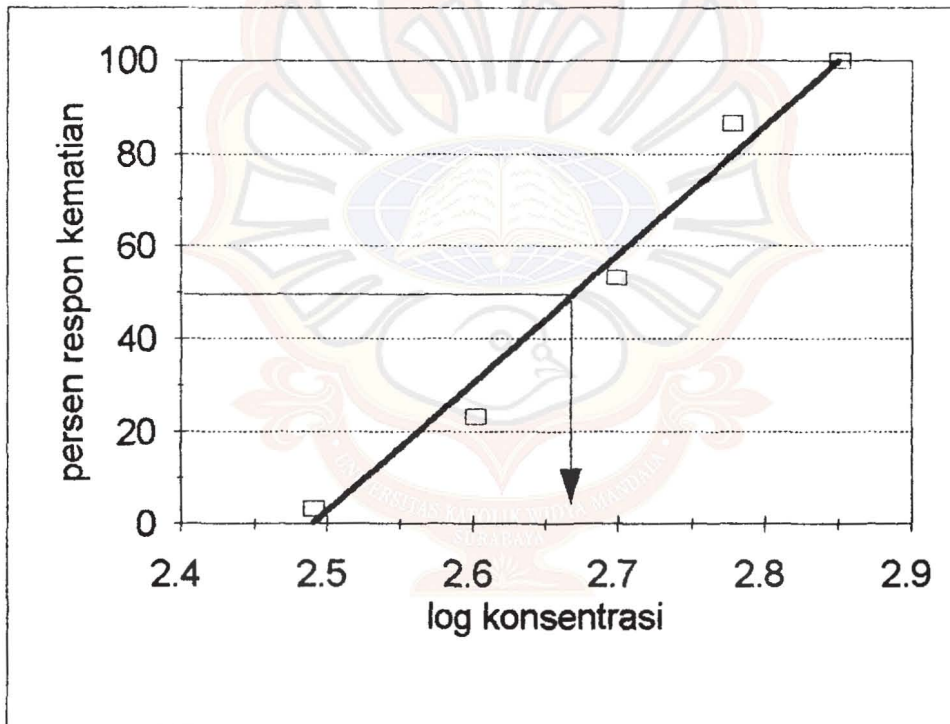
Untuk  $y=50$ , maka  $x=2,4092$

$x = \text{logaritma konsentrasi ekstrak} = 2,4092$

jadi konsentrasi  $LC_{50}$  ekstrak = 256,5478 ppm

5. Ekstrak etanol Solanum verbascifolium

Konsentrasi (ppm)	Prosentase Respon Kematian
301,8	3,33
402,4	23,33
503	53,33
603,6	86,67
704,2	100



Grafik hubungan log konsentrasi larutan ekstrak uji dengan prosentase kematian nauplii, dalam ekstrak etanol Solanum verbascifolium pada ulangan I.

Persamaan garis regresi  $y = 277,6782 x - 691,6448$

Untuk  $y = 50$ , maka  $x = 2,6788$

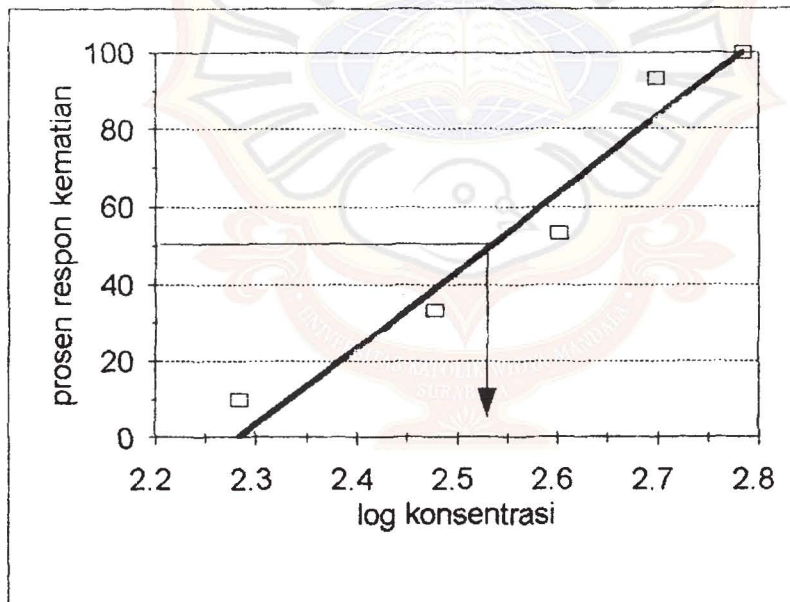
$x = \text{logaritma konsentrasi ekstrak} = 2,6788$

jadi konsentrasi  $LC_{50}$  ekstrak = 468,6882 ppm

## B. Ulangan II

1. Ekstrak etanol Solanum nigrum

Konsentrasi (ppm)	Prosentase Respon Kematian
201,2	10
301,8	33,33
402,4	53,33
503	93,33
603,6	100



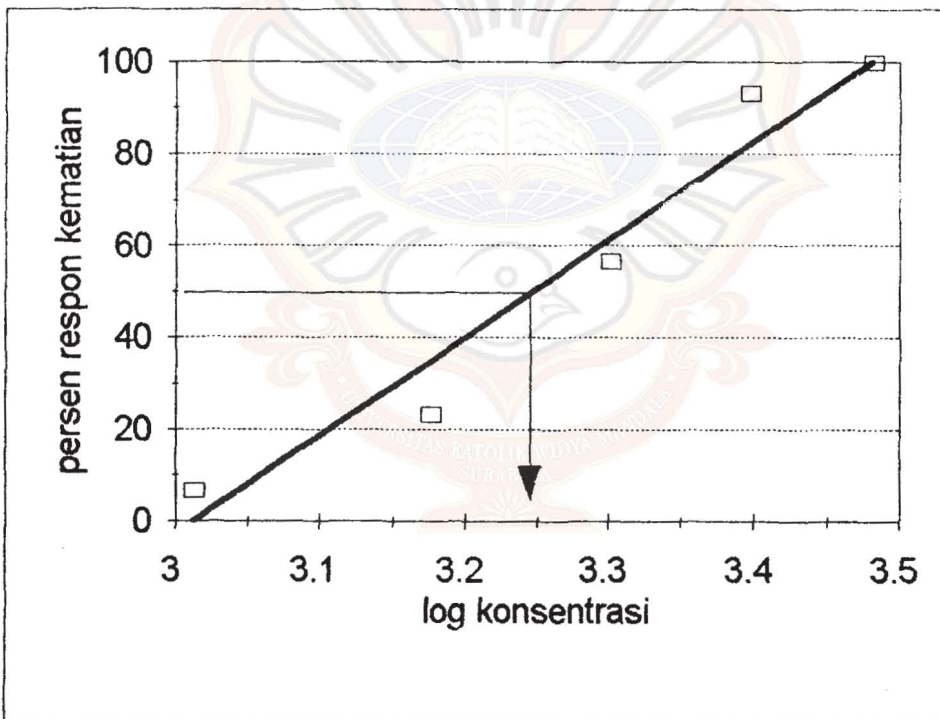
Grafik hubungan log konsentrasi larutan ekstrak uji dengan prosentase kematian nauplii, dalam ekstrak etanol Solanum nigrum pada ulangan II.

Persamaan garis regresi  $y = 199,7274 x - 456,1133$   
 Untuk  $y = 50$ , maka  $x = 2,5340$   
 $x = \text{logaritma konsentrasi ekstrak} = 2,5340$   
 jadi konsentrasi  $LC_{50}$  ekstrak =  $341,9951 \text{ ppm}$



## 2. Ekstrak etanol Solanum torvum

Konsentrasi (ppm)	Prosentase Respon Kematian
1012	6,67
1518	23,33
2024	56,67
2530	93,33
3036	100



Grafik hubungan log konsentrasi larutan ekstrak uji dengan prosentase kematian nauplii, dalam ekstrak etanol Solanum torvum pada ulangan II.

Persamaan garis regresi  $y = 213,4380 x - 643,1410$

Untuk  $y=50$ , maka  $x=3,2475$

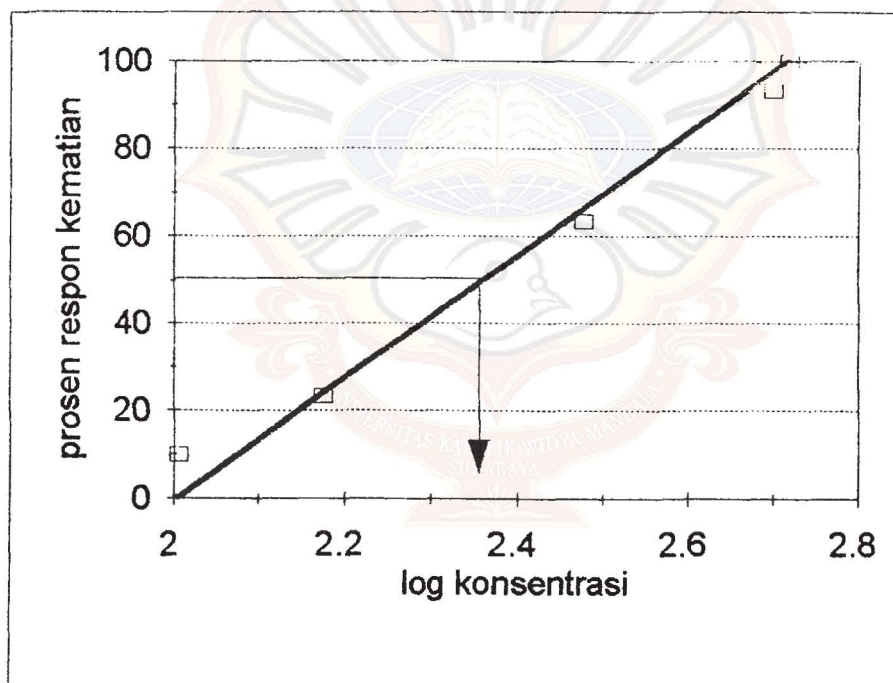
$x = \text{logaritma konsentrasi ekstrak} = 3,2475$

jadi konsentrasi  $LC_{50}$  ekstrak = 1768,0958 ppm



### 3. Ekstrak etanol Solanum indicum

Konsentrasi (ppm)	Prosentase Respon Kematian
100,6	10
201,2	23,33
301,8	63,33
402,4	93,33
503	100



Grafik hubungan log konsentrasi larutan ekstrak uji dengan prosentase kematian nauplii, dalam ekstrak etanol Solanum indicum pada ulangan II.

Persamaan garis regresi  $y = 140,2626 x - 281,2178$

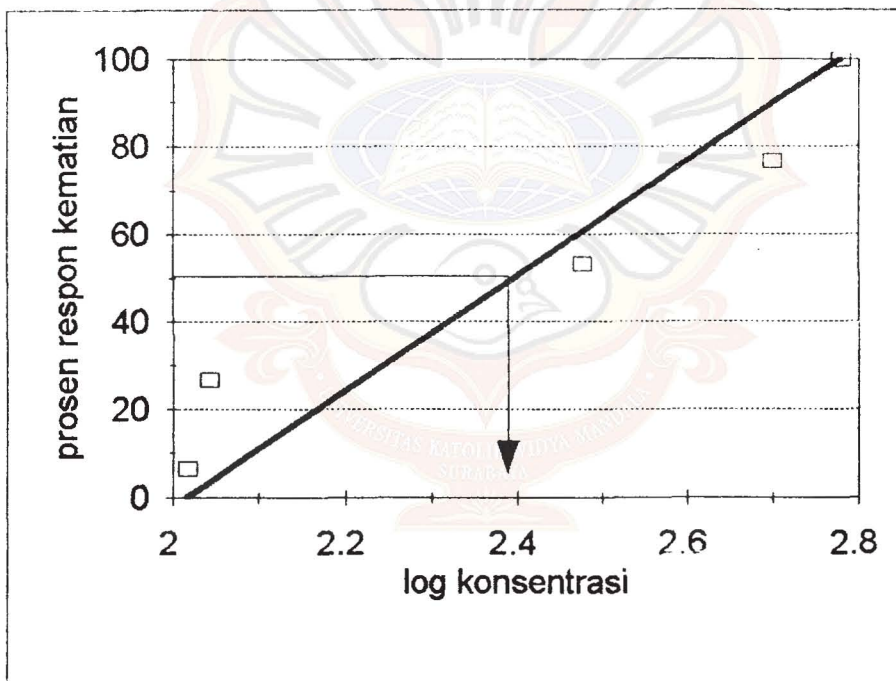
Untuk  $y=50$ , maka  $x=2,3614$

$x = \text{logaritma konsentrasi ekstrak} = 2,3614$

jadi konsentrasi  $LC_{50}$  ekstrak = 229,8331 ppm

#### 4. Ekstrak etanol Solanum chasianum

Konsentrasi (ppm)	Prosentase Respon Kematian
100,4	6,67
200,8	26,67
301,2	53,33
401,6	76,67
502	100



Grafik hubungan log konsentrasi larutan ekstrak uji dengan prosentase kematian nauplii, dalam ekstrak etanol Solanum chasianum pada ulangan II.

Persamaan garis regresi  $y = 131,3553 x - 264,8926$

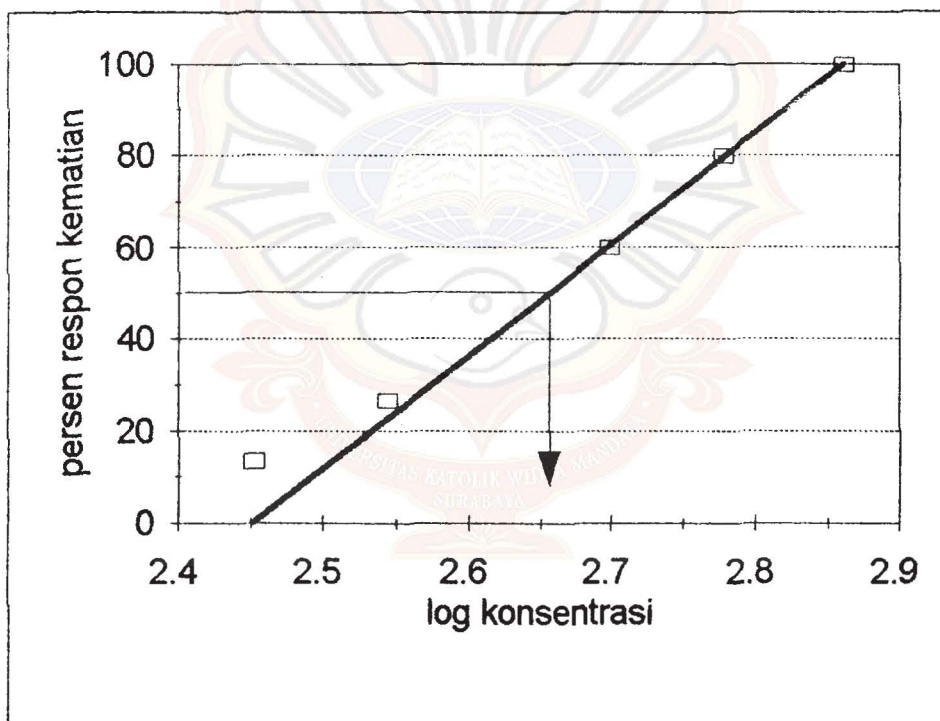
Untuk  $y=50$ , maka  $x=2,3973$

$x = \text{logaritma konsentrasi ekstrak} = 2,3973$

jadi konsentrasi  $LC_{50}$  ekstrak = 249,6081 ppm

5. Ekstrak etanol Solanum verbascifolium

Konsentrasi (ppm)	Prosentase Respon Kematian
300,6	13,33
400,8	26,67
501	60
601,2	80
701,4	100



Grafik hubungan log konsentrasi larutan ekstrak uji dengan prosentase kematian nauplii, dalam ekstrak etanol Solanum verbascifolium pada ulangan II.

Persamaan garis regresi  $y = 244,2878 x - 598,9718$

Untuk  $y=50$ , maka  $x=2,6566$

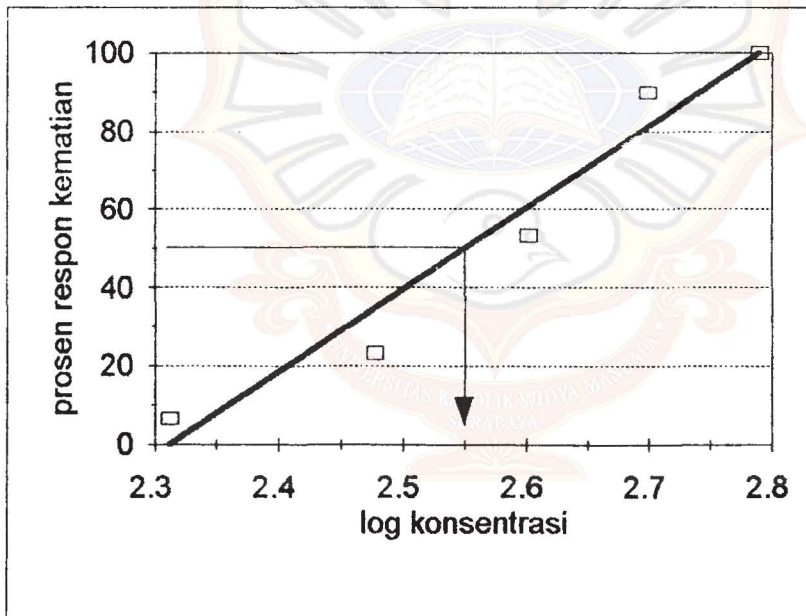
$x = \text{logaritma konsentrasi ekstrak} = 2,6566$

jadi konsentrasi  $LC_{50}$  ekstrak = 453,5098 ppm

### C. Ulangan III

#### 1. Ekstrak etanol Solanum nigrum

Konsentrasi (ppm)	Prosentase Respon Kematian
200,8	6,67
301,2	23,33
401,6	53,33
502	90
602,4	100



Grafik hubungan log konsentrasi larutan ekstrak uji dengan prosentase kematian nauplii, dalam ekstrak etanol Solanum nigrum pada ulangan III.

Persamaan garis regresi  $y = 209,7270 x - 485,0035$

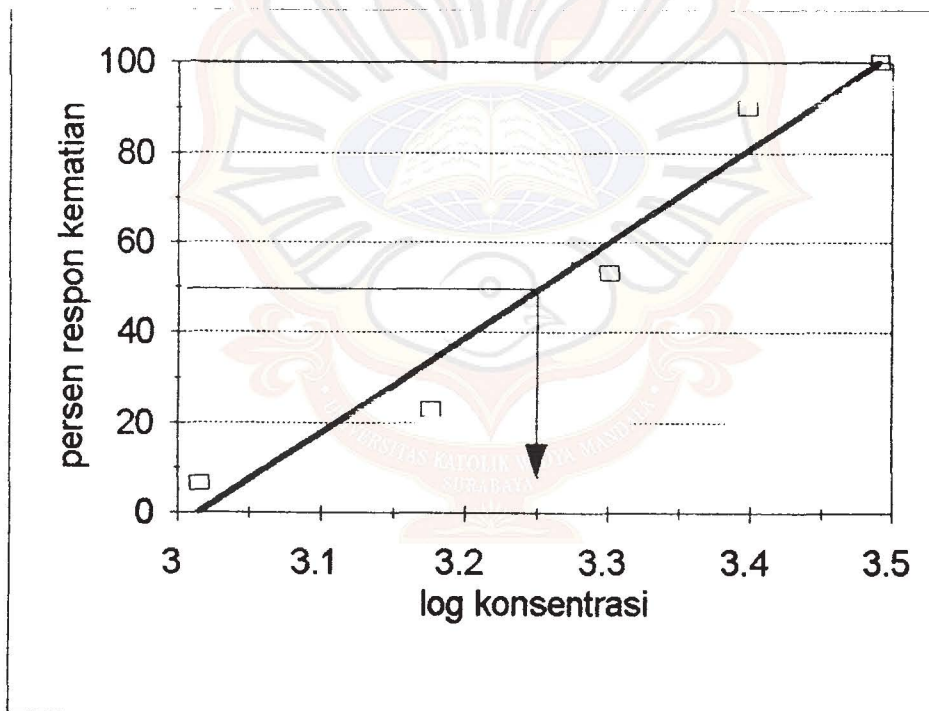
Untuk  $y = 50$ , maka  $x = 2,5509$

$x = \text{logaritma konsentrasi ekstrak} = 2,5509$

jadi konsentrasi  $LC_{50}$  ekstrak = 355,5922 ppm

## 2. Ekstrak etanol Solanum torvum

Konsentrasi (ppm)	Prosentase Respon Kematian
1012	6,67
1518	23,33
2024	53,33
2530	90
3036	100



Grafik hubungan log konsentrasi larutan ekstrak uji dengan prosentase kematian nauplii, dalam ekstrak etanol Solanum torvum pada ulangan III.

Persamaan garis regresi  $y = 209,7270 x - 632,3192$

Untuk  $y = 50$ , maka  $x = 2,2534$

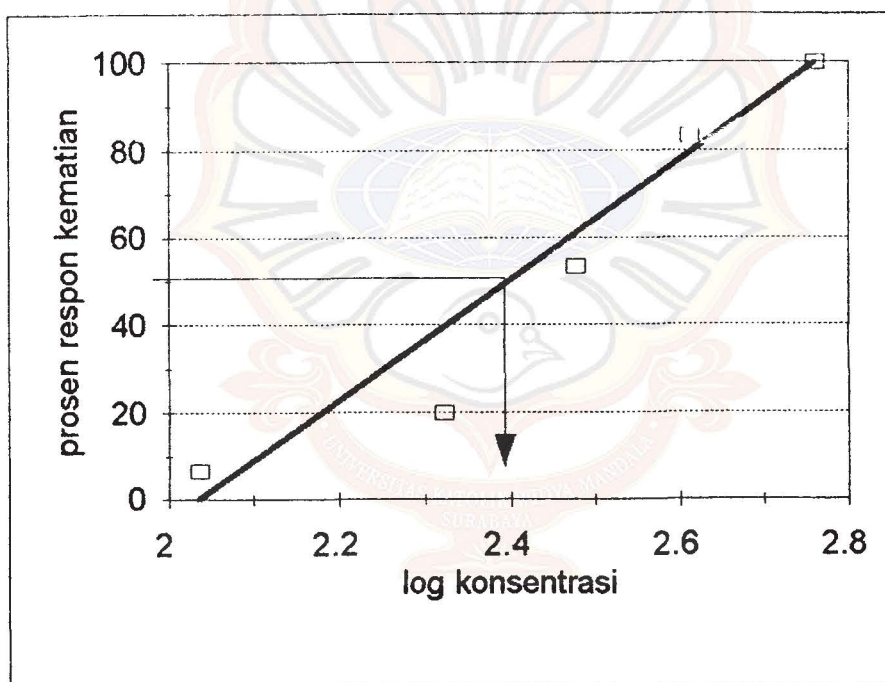
$x = \text{logaritma konsentrasi ekstrak} = 2,2534$

jadi konsentrasi  $LC_{50}$  ekstrak = 1792,1281 ppm



### 3. Ekstrak etanol Solanum indicum

Konsentrasi (ppm)	Prosentase Respon Kematian
100,4	6,67
200,8	20
301,2	53,33
401,6	83,33
502	100



Grafik hubungan log konsentrasi larutan ekstrak uji dengan prosentase kematian nauplii, dalam ekstrak etanol Solanum indicum pada ulangan III.

Persamaan garis regresi  $y = 137,9682 x - 280,8698$

Untuk  $y = 50$ , maka  $x = 2,3982$

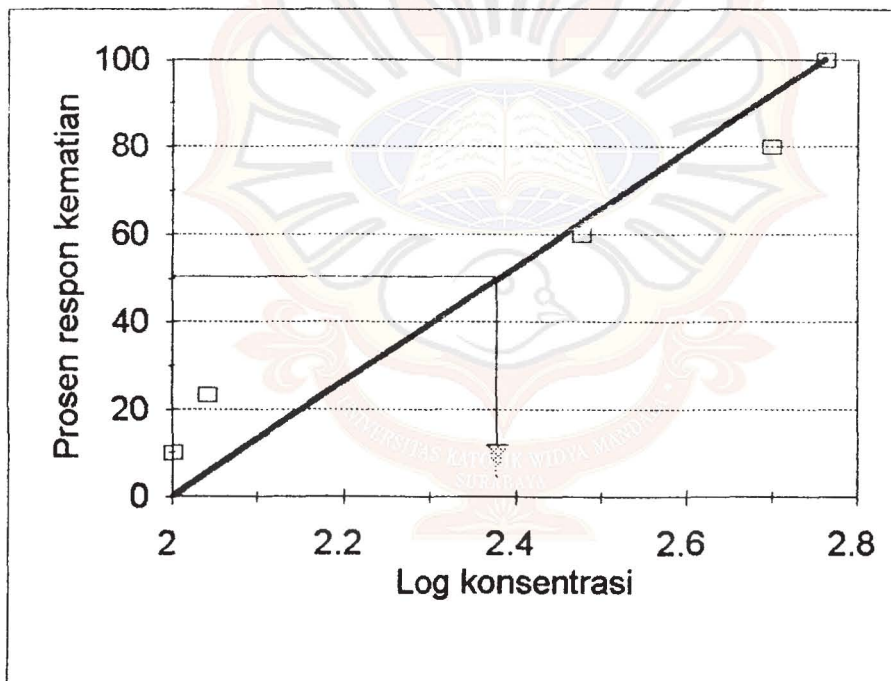
$x = \text{logaritma konsentrasi ekstrak} = 2,3982$

jadi konsentrasi  $LC_{50}$  ekstrak = 250,1267 ppm



#### 4. Ekstrak etanol Solanum chasianum

Konsentrasi (ppm)	Prosentase Respon Kematian
100,2	10
200,4	23,33
300,6	60
400,8	80
501	100



Grafik hubungan log konsentrasi larutan ekstrak uji dengan prosentase kematian nauplii, dalam ekstrak etanol Solanum chasianum pada ulangan III.

Persamaan garis regresi  $y = 131,4459 x - 262,9998$

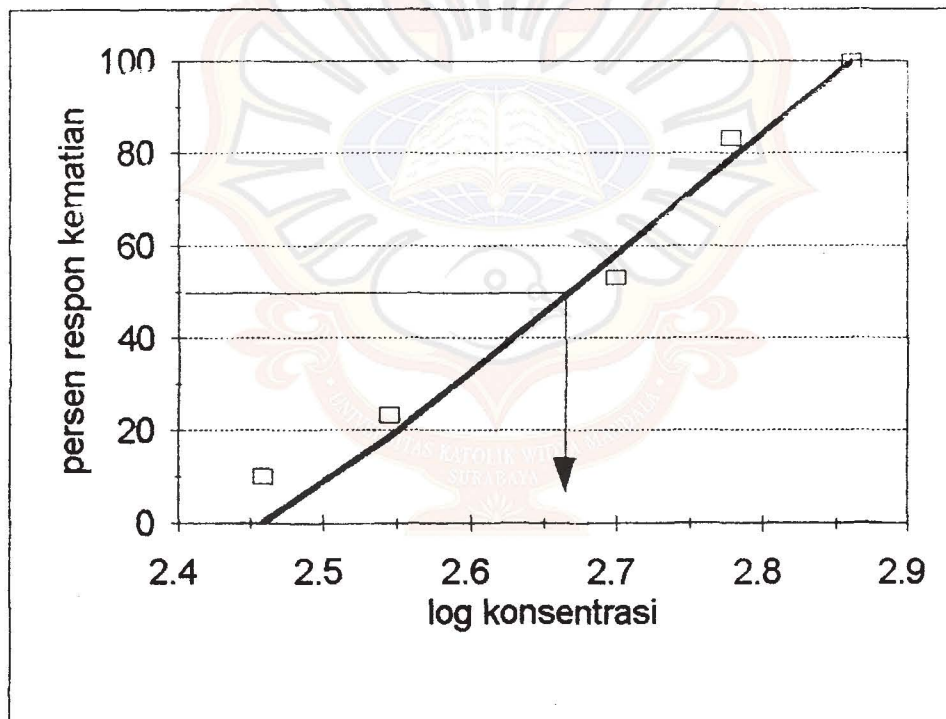
Untuk  $y = 50$ , maka  $x = 2,3812$

$x = \text{logaritma konsentrasi ekstrak} = 2,3812$

jadi konsentrasi  $LC_{50}$  ekstrak = 240,5506 ppm

5. Ekstrak etanol Solanum verbascifolium

Konsentrasi (ppm)	Prosentase Respon Kematian
301,8	10
402,4	23,33
503	53,33
603,6	83,33
704,2	100



Grafik hubungan log konsentrasi larutan ekstrak uji dengan prosentase kematian nauplii, dalam ekstrak etanol Solanum verbascifolium pada ulangan III.

Persamaan garis regresi  $y = 257,7698 x - 637,5669$

Untuk  $y=50$ , maka  $x=2,6673$

$x = \text{logaritma konsentrasi ekstrak} = 2,6673$

jadi konsentrasi  $LC_{50}$  ekstrak = 464,9091 ppm

LAMPIRAN III

HASIL PENELITIAN BEBERAPA EKSTRAK ETANOL DARI SUKU  
EUPHORBIACEAE (MEYER, dkk)

Brine Shrimp Bioassay

Table II

Brine shrimp bioassay results of ethanolic extracts of seeds of *Euphorbiaceae*

Species	Percent deaths at 24 hr				(95 % confidence interval)*	9PS LC <sub>50</sub> µg/ml	9KB LC <sub>50</sub> µg/ml	Refer- ences to Com- ponents
	10 µg/ml	100 µg/ml	1000 µg/ml	LC <sub>50</sub> µg/ml				
1. <i>Eremocarpus setigerus</i> (HOOK.) BENTH.	32	78	100	24	(14-37)	1.76 × 10 <sup>2</sup>	Inact.	--
2. <i>Euphorbia amygdaloides</i> L.	30	80	74	30	(8-67)	6.8	Inact.	--
3. <i>Croton tiglium</i> L.	25	78	96	30	(17-47)	< 10 <sup>5</sup>	< 10 <sup>6</sup>	[24]
4. <i>Reverchonia arenaria</i> A. GRAY	22	44	100	95	--	Inact.	Inact.	--
5. <i>Sapium montovidense</i> KLOTZSCH	0	24	98	116	(55-219)	4.2	Inact.	--
6. <i>Euphorbia lagascae</i> SPRENG.	30	34	80	119	(55-268)	0.6	Inact.	--
7. <i>Euphorbia marginata</i> PUNSB.	0	26	100	162	(120-227)	7.7	40.6	--
8. <i>Alourites fordii</i> HEUST.	0	10	100	247	--	18.3	Inact.	[25]
9. <i>Antidesma nigricans</i> TUL.	0	4	100	265	--	Inact.	Inact.	--
10. <i>Euphorbia lathyris</i> L.	0	8	65	333	(238-465)	1.2	74.9	--
11. <i>Bridelia ratufa</i> (L.) SPRENG.	6	14	100	363	--	7.8	41.1	--
12. <i>Euphorbia cyparissias</i> L.	0	24	72	369	(234-594)	2.45 × 10 <sup>4</sup>	3.9	[26]
13. <i>Sapium japonicum</i> PAX. and K. HOFFM.	0	10	80	388	(271-566)	31.3	Inact.	[27]
14. <i>Euphorbia cyborisis</i> BOISS.	0	8	74	516	(363-754)	6.8	15.1	--
15. <i>Chrozophora hirsutolymitana</i> SPRENG.	0	0	58	641	(458-947)	85.5	Inact.	--
16. <i>Pulranjiva roxburghii</i> WALL.	0	8	60	713	(462-1290)	Inact.	Inact.	[28]
17. <i>Daphniphyllum himalaense</i> (BENTH.) MUELL.-ARG.	0	8	52	960	--	Inact.	Inact.	--
18. <i>Jatropha spatulata</i> MUELL.-ARG.	10	32	48	981	(374-7753)	0.27	Inact.	--
19. <i>Manihot rubricaulis</i> L. M. JOHNSON	0	0	38	> 1000	--	55.8	Inact.	--
20. <i>Euphorbia paralias</i> L.	0	0	46	> 1000	--	20.2	Inact.	--
21. <i>Euphorbia eriophora</i> BOISS.	0	4	46	> 1000	--	30.3	Inact.	--
22. <i>Trowia nudiflora</i> L.	0	2	56	> 1000	--	3.90 × 10 <sup>4</sup>	10 <sup>4</sup>	[29]
23. <i>Euphorbia heterophylla</i> L.	10	28	42	> 1000	70.1	Inact.	--	--
24. <i>Jatropha curcas</i> L.	0	2	32	> 1000	--	9.0	Inact.	[30]
25. <i>Cnidocolus lepiquansis</i> (COST. and GALL.) LUNDSELL	13	23	40	> 1000	--	7.1	Inact.	--
26. <i>Daphniphyllum humile</i> MAXIM.	0	0	4	> 1000	--	Inact.	Inact.	--
27. <i>Mallotus philippensis</i> (LAM.) MUELL.-ARG.	0	6	12	> 1000	--	Inact.	Inact.	--
28. <i>Chrozophora tinctoria</i> (L.) A. JUSS.	0	0	4	> 1000	--	Inact.	Inact.	--
29. <i>Sapium haematosperrum</i> MUELL.-ARG.	0	0	10	> 1000	--	52.4	Inact.	--
30. <i>Jatropha gossypifolia</i> L.	0	0	0	> 1000	--	Inact.	Inact.	--
31. <i>Euphorbia falcata</i> L.	0	0	6	> 1000	--	Inact.	Inact.	[31]
32. <i>Excoecaria bussol</i> (PAX) PAX	0	0	16	> 1000	--	12.9	Inact.	--
33. <i>Bischofia javanica</i> BLUME	0	0	2	> 1000	--	38.9	Inact.	--
34. <i>Macaranga porakensis</i> HOOK	0	10	10	> 1000	--	7.8	Inact.	--
35. <i>Manihot isoloba</i> STANLEY	0	0	6	> 1000	--	4.0	3.3	--
36. <i>Cnidocolus elasticus</i> LUNDSELL	6	0	0	> 1000	--	33.5	31.2	--
37. <i>Manihot twoadiviana</i> MUELL.-ARG.	8	4	24	> 1000	--	5.2	41.4	--
38. <i>Sapium sobiferum</i> (L.) ROXB.	0	14	24	> 1000	--	0.82	Inact.	--
39. <i>Alourites moluccana</i> (L.) WILLO.	4	10	16	> 1000	--	5.3	2.6	--
40. <i>Euphorbia medicaginea</i> BOISS.	0	0	0	> 1000	--	4.0	59.9	--
41. <i>Euphorbia myrsinites</i> L.	0	0	20	> 1000	--	Inact.	Inact.	--

\* Where data were insufficient for probit analysis, LC<sub>50</sub>'s were estimated using logit transformation (see text) which does not provide confidence intervals.

LAMPIRAN IV



LEMBAGA ILMU PENGETAHUAN INDONESIA  
UPT BALAI PENGEMBANGAN KEBUN RAYA  
CABANG BALAI KEBUN RAYA PURWODADI  
PASURUAN - JAWA TIMUR

KOTAK POS NO. 104 LAWANG 63201

TELP. (0341) 96046 - FAX. 96046

SURAT KETERANGAN IDENTIFIKASI  
No.: 327a/II.1.06.02/HM./1995

Kepala Cabang Balai Kebun Raya Purwodadi dengan ini menerangkan bahwa material tanaman yang dibawa oleh :

Sdr. ARIFIN SUSILO - Nrp. 244308808

Mahasiswa Fakultas Farmasi Universitas Katolik "WIDYA MANDALITA" di Surabaya ke Cabang Balai Kebun Raya Purwodadi pada tanggal 13 Maret 1995, berdasarkan buku "FLORA OF JAVA" karangan C.A. Backer jilid II (1965) halaman 470-475 nama ilmiahnya adalah :

M a r g a : Solanum ✓

J e n i s : Solanum verbascifolium Linn. ✓

Adapun menurut buku "THE STANDARD CYCLOPEDIA OF HORTICULTURE" karangan L.H. Bailey jilid I (1953) halaman 3 klasifikasinya adalah sebagai berikut :

D i v i s i : Spermatophyta

Sub Divisi : Angiospermae

K e l a s : Dicotyledoneae

Ordo/Bangsa : Tubiflorae

Famili/Suku : Solanaceae

Demikian surat keterangan ini dibuat untuk dapat dipergunakan sebagaimana mestinya.-

Purwodadi, 13 Desember 1995



Kepala  
Cabang Balai Kebun Raya Purwodadi,

Ir. SOEJONO.-  
NIP. 320001034



LAMPIRAN V



PEMERINTAH PROPINSI DAERAH TK. I JAWA TIMUR  
DINAS KESEHATAN DAERAH BALAI MATERIA MEDICA

Jalan Lahor 87 Telp. 93398 Batu (65313)

KOTATIF - BATU

Nomer :  
Sifat :  
Lampiran :  
Perihal :

DITERMINASI TANAMAN  
No. 811/824/115.21/1995

Memenuhi surat permintaan diterminasi tanaman dari Fakultas Farmasi Universitas Katolik Widya Mandala Surabaya, maka bersama ini kami kirimkan diterminasi tanaman terong KB untuk mahasiswa Fakultas Farmasi Universitas Katolik Widya Mandala Surabaya :

N a m a : Arifin Susilo

No. Pokok : 2443086008

TERONG KB

Divisio : Spermatophyta

Subdivisio : Angiospermae

Klas : Dicotyledoneae

Ordo : Tubiflorae

Famili : Solanaceae

Genus : Solanum

Species : Solanum khasianum L.

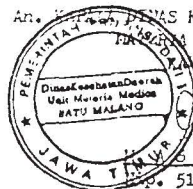
Demikian dan atas kerja samanya tak lupa kami sampaikan terima kasih.

Batu, 24 Mei 1995

An. Kepala Dinas Kesehatan Daerah Balai

MATERIA MEDICA BATU

UMUM



M U N I B

No. 510 099 096



LAMPIRAN VI



LEMBAGA ILMU PENGETAHUAN INDONESIA  
UPT BALAI PENGEMBANGAN KEBUN RAYA  
CABANG BALAI KEBUN RAYA PURWODADI  
PASURUAN - JAWA TIMUR

KOTAK POS NO. 104 LAWANG 65201

TELP. (0341) 96046

SURAT KETERANGAN IDENTIFIKASI

No. : 327 /II.1.06.02/HM/1995

Kepala Cabang Balai Kebun Raya Purwodadi dengan ini menerangkan bahwa material tanaman yang dibawa oleh :

Sdr. Arifin Susilo - Mrp.2443088008

Mahasiswa Fakultas Farmasi Universitas Katolik "WIDYA MANDALA" di Surabaya ke Cabang Balai Kebun Raya Purwodadi pada tanggal 13 Maret 1995, berdasarkan buku "Tumbuhan Berguna Indonesia" karangan K. Heyne Jilid III (1987) halaman 1711 dan buku "Flora of Java" karangan C.A. Backer Jilid II (1965) halaman 471, 474 dan 475 nama ilmiahnya adalah :

- (1). M a r g a : Solanum  
J e n i s : Solanum indicum Linn.
- (2). M a r g a : Solanum  
J e n i s : Solanum nigrum L.
- (3). M a r g a : Solanum  
J e n i s : Solanum melongena L.
- (4). M a r g a : Solanum  
J e n i s : Solanum torvum Swartz

Adapun menurut buku "The Standard Cyclopedia of Horticulture" karangan L.H. Bailey Jilid I (1953) halaman 3 klasifikasinya adalah sebagai berikut :

- D i v i s i : Spermatophyta  
S u b D i v i s i : Angiospermae  
K e l a s : Dicotyledoneae  
O r d e / B a n g s a : Tubiflorae  
F a m i l i / S u k u : Solanaceae

Demikian surat keterangan ini dibuat untuk dapat di gunakan seperlunya.-

Purwodadi, 13 April 1995

Pimpinan Harian  
Balai Kebun Raya Purwodadi,



DWI ATWANTO, B.Sc.-  
NIP. 320001994

