LAMPIRAN A

GAMBAR PENELITIAN

Hasil Pengamatan Uji Toksisitas

Larva *Aedes aegypti* Linn. hasil kolonisasi

LAMPIRAN B

PEMBUATAN LARUTAN SENYAWA UJI

.

Senyawa asam O-(3,5-diklorobenzoil)salisilat, asam O-(4-trifluorometoksi benzoil)salisilat dan asam asetilsalisilat masing-masing ditimbang 100 mg kemudian dilarutkan dalam 4 ml larutan DMSO lalu ditambahkan aquadest sampai 100 ml.

Larutan induk $= \frac{100 \text{ mg}}{100 \text{ ml}}$ x 1000 = 1000 ppm.

Kemudian dilakukan pengenceran menjadi 500, 250, 125 dan 62,5 ppm untuk uji pendahuluan.

1. Larutan 1000 ppm → pipet 10 ml larutan induk lalu masukkan ke dalam vial.

2. Larutan 500 ppm → pipet 5 ml larutan induk lalu masukkan ke dalam vial. Tambahkan 5 ml aquadest ke dalam vial.
   $= \frac{5 \text{ ml}}{10 \text{ ml}}$ x 1000 ppm = 500 ppm

3. Larutan 250 ppm → pipet 2,5 ml larutan induk lalu masukkan ke dalam vial. Tambahkan 7,5 ml aquadest ke dalam vial.
   $= \frac{2{,}5 \text{ ml}}{10 \text{ ml}}$ x 1000 ppm = 250 ppm

4. Larutan 125 ppm → pipet 1,25 ml larutan induk lalu masukkan ke dalam vial. Tambahkan 8,75 ml aquadest ke dalam vial.
   $= \frac{1{,}25 \text{ ml}}{10 \text{ ml}}$ x 1000 ppm = 125 ppm

5. Larutan 62,5 ppm → pipet 0,625 ml larutan induk lalu masukkan ke dalam vial. Tambahkan 9,375 ml aquadest ke dalam vial.
   $= \frac{0{,}625 \text{ ml}}{10 \text{ ml}}$ x 1000 ppm = 62,5 ppm

LAMPIRAN C

TABEL KORELASI (r)

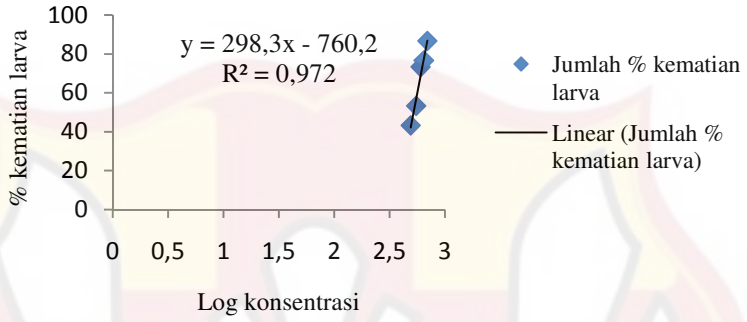
Derajat Bebas (db)	5 %	1 %	Derajat Bebas (db)	5 %	1 %
1	0,997	1,000	24	0,388	0,496
2	0,950	0,990	25	0,381	0,487
3	0,878	0,959	26	0,374	0,478
4	0,811	0,917	27	0,367	0,470
5	0,754	0,874	28	0,361	0,463
6	0,707	0,834	29	0,355	0,456
7	0,666	0,798	30	0,349	0,449
8	0,632	0,765	35	0,325	0,418
9	0,602	0,735	40	0,304	0,393
10	0,576	0,708	48	0,288	0,372
11	0,553	0,684	50	0,273	0,354
12	0,532	0,661	60	0,250	0,325
13	0,514	0,641	70	0,232	0,302
14	0,497	0,623	80	0,217	0,283
15	0,482	0,606	90	0,205	0,267
16	0,468	0,590	100	0,195	0,254
17	0,456	0,575	125	0,174	0,228
18	0,444	0,561	150	0,159	0,208
19	0,433	0,549	200	0,138	0,181
20	0,423	0,537	300	0,113	0,148
21	0,413	0,526	400	0,098	0,128
22	0,404	0,515	500	0,088	0,115
23	0,396	0,505	1000	0,062	0,081

LAMPIRAN D

PERHITUNGAN LC_{50}

❖ Grafik hasil analisis statistik korelasi regresi dari asam asetilsalisilat :

Grafik Log Konsentrasi Vs % Kematian Larva
Asam Asetilsalisilat



Dari grafik kita dapatkan persamaan garis linier y = 298,3x – 760,2

Keterangan :

x = log konsentrasi senyawa obat

y = % kematian larva *Aedes aegypti* Linn

Hitung LC_{50} :

y = 50 → x = ?

y = 298,3(x) – 760,2

50 = 298,3(x) – 760,2

x = 2,72

↓

shift log = $10^{2,72}$ = 520 ppm

Jadi, LC_{50} dari asam asetilsalisilat adalah 520 ppm.

LAMPIRAN E

ANALISIS PROBIT

1. Asam asetilsalisilat

Parameter Estimates

	Parameter	Estimate	Std. Error	Z	Sig.	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
PROBIT[a]	KONSENTRASI	8.519	2.119	4.020	.000	4.365	12.673
	Intercept	-23.144	5.861	-3.949	.000	-29.005	-17.283

a. PROBIT model: PROBIT(p) = Intercept + BX

ASAM ASETILSALISILAT

ASETILSALISILAT	Mean	N	Std. Deviation
2.69	4.3333	3	.57735
2.74	5.3333	3	.57735
2.78	7.3333	3	.57735
2.81	7.6667	3	.57735
2.84	8.6667	3	.57735
Total	6.6667	15	***1.71825***

Cell Counts and Residuals

	No.	KONSENTRASI	Number of Subjects	Observed Responses	Expected Responses	Residual	Probability
PROBIT	1	2.690	10	4	4.097	.233	.410
	2	2.740	10	5	5.787	-.457	.579
	3	2.780	10	7	7.054	.276	.705
	4	2.810	10	8	7.870	-.200	.787
	5	2.840	10	9	8.536	.134	.854

Confidence Limits

		95% Confidence Limits for KONSENTRASI		
	Probability	Estimate	Lower Bound	Upper Bound
PROBIT	.010	2.444	.716	2.594
	.020	2.476	.920	2.612
	.030	2.496	1.048	2.623
	.040	2.512	1.145	2.632
	.050	2.524	1.224	2.639
	.060	2.535	1.291	2.645
	.070	2.544	1.350	2.650
	.080	2.552	1.403	2.655
	.090	2.560	1.451	2.659
	.100	2.567	1.495	2.663
	.150	2.595	1.677	2.680
	.200	2.618	1.821	2.693
	.250	2.638	1.945	2.705
	.300	2.655	2.056	2.716
	.350	2.672	2.158	2.726
	.400	2.687	2.254	2.737
	.450	2.702	2.347	2.748
	.500	***2.717***	***2.436***	***2.761***
	.550	2.731	2.522	2.776
	.600	2.746	2.603	2.799
	.650	2.762	2.673	2.836
	.700	2.778	2.721	2.901
	.750	2.796	2.750	2.993
	.800	2.815	2.771	3.108
	.850	2.838	2.790	3.247
	.900	2.867	2.809	3.426
	.910	2.874	2.814	3.470
	.920	2.881	2.818	3.517
	.930	2.890	2.824	3.569
	.940	2.899	2.829	3.628
	.950	2.909	2.836	3.694
	.960	2.922	2.843	3.773
	.970	2.937	2.852	3.869
	.980	2.957	2.863	3.998
	.990	2.989	2.882	4.201

2. Asam O-(3,5-diklorobenzoil)salisilat

Parameter Estimates

	Parameter	Estimate	Std. Error	Z	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
PROBIT[a]	KONSENTRASI	3.090	.638	4.846	.000	1.840	4.340
	Intercept	-5.327	1.132	-4.708	.000	-6.459	-4.196

a. PROBIT model: PROBIT(p) = Intercept + BX

O-(3,5-DIKLOROBENZOIL)SALISILAT

3,5-DIKLORO	Mean	N	Std. Deviation
1.48	2.6667	3	.57735
1.70	4.3333	3	.57735
1.78	5.3333	3	.57735
1.90	6.6667	3	.57735
2.00	8.6667	3	.57735
Total	5.5333	15	***2.16685***

Cell Counts and Residuals

	No.	KONSENTRASI	Number of Subjects	Observed Responses	Expected Responses	Residual	Probability
PROBIT	1	1.480	10	3	2.254	.416	.225
	2	1.700	10	4	4.705	-.375	.470
	3	1.780	10	5	5.688	-.358	.569
	4	1.900	10	7	7.068	-.398	.707
	5	2.000	10	9	8.032	.638	.803

Confidence Limits

		95% Confidence Limits for 3,5-DIKLORO		
	Probability	Estimate	Lower Bound	Upper Bound
PROBIT	.010	.971	.424	1.207
	.020	1.059	.571	1.271
	.030	1.115	.664	1.312
	.040	1.157	.734	1.342
	.050	1.192	.791	1.367
	.060	1.221	.840	1.389
	.070	1.246	.882	1.407
	.080	1.269	.920	1.424
	.090	1.290	.955	1.439
	.100	1.309	.986	1.453
	.150	1.389	1.117	1.512
	.200	1.452	1.220	1.560
	.250	1.506	1.308	1.602
	.300	1.554	1.386	1.640
	.350	1.599	1.456	1.677
	.400	1.642	1.521	1.714
	.450	1.683	1.582	1.752
	.500	***1.724***	***1.638***	***1.794***
	.550	1.765	1.689	1.839
	.600	1.806	1.736	1.891
	.650	1.849	1.780	1.950
	.700	1.894	1.821	2.016
	.750	1.942	1.863	2.090
	.800	1.996	1.907	2.175
	.850	2.059	1.956	2.277
	.900	2.139	2.017	2.407
	.910	2.158	2.031	2.438
	.920	2.179	2.046	2.472
	.930	2.202	2.063	2.510
	.940	2.227	2.082	2.552
	.950	2.256	2.104	2.600
	.960	2.291	2.129	2.657
	.970	2.333	2.160	2.727
	.980	2.389	2.200	2.820
	.990	2.477	2.264	2.967

3. Asam O-(4-trifluorometoksibenzoil)salisilat

Parameter Estimates

	Parameter	Estimate	Std. Error	Z	Sig.	95% Confidence Interval Lower Bound	95% Confidence Interval Upper Bound
PROBIT[a]	KONSENTRASI	13.568	2.312	5.870	.000	9.038	18.099
	Intercept	-41.605	7.103	-5.858	.000	-48.708	-34.503

a. PROBIT model: PROBIT(p) = Intercept + BX

O-(4-TRIFLUOROMETOKSIBENZOIL)SALISILAT

4-TRIFLUORO	Mean	N	Std. Deviation
3.00	2.3333	3	.57735
3.04	3.3333	3	.57735
3.08	5.3333	3	.57735
3.11	6.6667	3	.57735
3.15	9.3333	3	.57735
Total	5.4000	15	***2.61315***

Cell Counts and Residuals

	No.	KONSENTRASI	Number of Subjects	Observed Responses	Expected Responses	Residual	Probability
PROBIT	1	3.000	10	2	1.837	.493	.184
	2	3.040	10	3	3.601	-.271	.360
	3	3.080	10	5	5.732	-.402	.573
	4	3.110	10	7	7.230	-.560	.723
	5	3.150	10	9	8.718	.612	.872

Confidence Limits

		95% Confidence Limits for 4TRIFLUORO		
	Probability	Estimate	Lower Bound	Upper Bound
PROBIT	.010	2.895	2.804	2.941
	.020	2.915	2.834	2.957
	.030	2.928	2.853	2.967
	.040	2.937	2.867	2.974
	.050	2.945	2.878	2.980
	.060	2.952	2.888	2.985
	.070	2.958	2.897	2.990
	.080	2.963	2.905	2.994
	.090	2.968	2.911	2.997
	.100	2.972	2.918	3.001
	.150	2.990	2.944	3.015
	.200	3.004	2.965	3.027
	.250	3.017	2.983	3.037
	.300	3.028	2.998	3.046
	.350	3.038	3.012	3.055
	.400	3.048	3.025	3.064
	.450	3.057	3.037	3.073
	.500	***3.066***	***3.048***	***3.083***
	.550	3.076	3.059	3.093
	.600	3.085	3.069	3.104
	.650	3.095	3.078	3.117
	.700	3.105	3.088	3.130
	.750	3.116	3.098	3.145
	.800	3.128	3.108	3.163
	.850	3.143	3.120	3.183
	.900	3.161	3.134	3.209
	.910	3.165	3.138	3.216
	.920	3.170	3.142	3.223
	.930	3.175	3.146	3.230
	.940	3.181	3.150	3.239
	.950	3.188	3.155	3.249
	.960	3.195	3.161	3.260
	.970	3.205	3.169	3.274
	.980	3.218	3.179	3.293