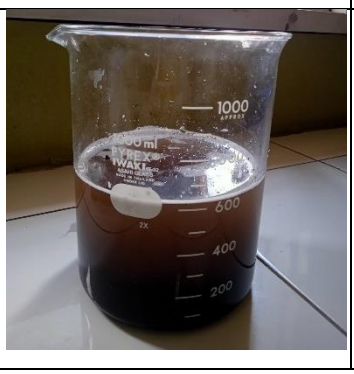
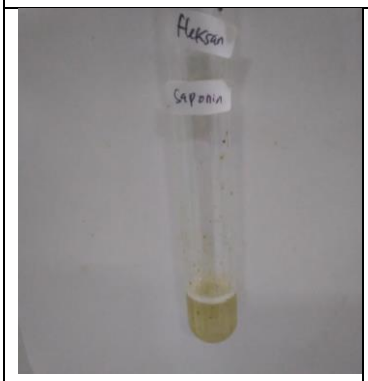
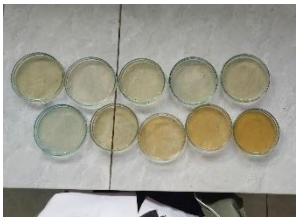
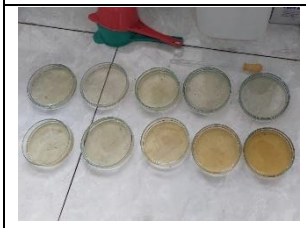
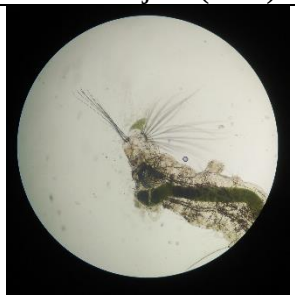
Lampiran 1

Pengambilan Kulit Pisang Kepok (*Musa paradisiaca L.*)	Pencucian Kulit Pisang Kepok (*Musa paradisiaca L.*)	Pemotongan Kulit Pisang Kepok (*Musa paradisiaca L.*)
		
Penjemuran kulit pisang Kepok (*Musa paradisiaca L.*)	Pengovenan Kulit Pisang Kepok (*Musa paradisiaca L.*)	Penimbangan Kulit Pisang Kepok (*Musa paradisiaca L.*)
		
Penghalusan Kulit Pisang Kepok (*Musa paradisiaca L.*)	Maserasi Kulit Pisang Kepok (*Musa paradisiaca L.*)	Pengaturan Suhu dan Rotasi Evaporasi Kulit Pisang Kepok (*Musa paradisiaca L.*)
		

Evaporasi Kulit Pisang Kepok (*Musa paradisiaca L.*)	Fraksinasi Etanol-Etil Asetat Kulit Pisang Kepok (*Musa paradisiaca L.)*	Fraksinasi Etanol-Nheksan Kulit Pisang Kepok (*Musa paradisiaca L.*)
		
Fitokimia		
		
Pencarian larva instar III *Anopheles sp.* Ke Tambak Desa Hanura	Makroskopis larva instar III *Anopheles sp.*	Pengambilan Larva untuk Identifikasi Secara Mikroskopis
		

Preparat Identifikasi Larva Instar III Nyamuk *Anopheles sp.*	Identifikasi larva *Anopheles sp.* Ekor palmate seta	Identifikasi larva *Anopheles sp.* Kepala Gemuk
		
Identifikasi *Anopheles sp.* Badan 8 ruas	Pengujian 1 (1 mei 2023)	Pengujian 2 (8 mei 2023)
		
Pengujian 3 (15 mei)	Setelah uji toksisitas selama 12 jam (ekor)	Setelah uji toksisitas selama 12 jam (kepala)
		
Setelah uji toksisitas selama 12 jam (tubuh)		
		

Lampiran 2

Konsentrasi fraksi etanol kulit pisang kepok (%)	ulangan	2 jam	4 jam	6 jam	8 jam	10 jam	12 jam	Rata-rata kematian larva *Anopheles sp.*
1%	1	0	2	7	8	9	9	5,833333333
	2	1	1	3	9	10	10	5,666666667
	3	0	0	1	6	9	10	4,333333333
2%	1	4	8	10	10	10	1	7,166666667
	2	1	4	8	10	10	10	7,166666667
	3	0	1	2	6	9	10	4,666666667
3%	1	4	9	10	10	10	1	7,333333333
	2	1	1	3	10	10	10	5,833333333
	3	0	1	3	7	10	10	5,166666667
4%	1	1	4	9	10	10	10	7,333333333
	2	2	5	7	10	10	10	7,333333333
	3	0	1	3	8	10	10	5,333333333
5%	1	2	8	10	10	10	10	8,333333333
	2	2	8	10	10	10	10	8,333333333
	3	0	1	6	8	10	10	5,833333333
6%	1	5	10	10	10	10	10	9,166666667
	2	3	9	10	10	10	10	8,666666667
	3	0	1	8	8	10	10	6,166666667
7%	1	6	10	10	10	10	10	9,333333333
	2	3	10	10	10	10	10	8,833333333
	3	0	5	8	10	10	10	7,166666667
8%	1	6	10	10	10	10	10	9,333333333
	2	3	10	10	10	10	10	8,833333333
	3	0	7	10	10	10	10	7,833333333
9%	1	7	10	10	10	10	10	9,5
	2	3	10	10	10	10	10	8,833333333
	3	0	6	9	10	10	10	7,5
10%	1	9	10	10	10	10	10	9,833333333
	2	8	10	10	10	10	10	9,666666667
	3	1	6	10	10	10	10	7,833333333
Kontrol (+)	-	10	10	10	10	10	10	10
Kontrol (-)	-	0	0	0	0	0	0	0

Lampiran 3

Uji regresi hubungan fraksi etanol kulit pisang kepok (Musa paradisiaca L.) dan waktu pengamatan 2 sampai 12 jam terhadap angka kematian larva instar III *Anopheles sp.*

Variables Entered/Removed[a]

Model	Variables Entered	Variables Removed	Method
1	Konsentrasi_Fraksi_Etanol_Kulit_Pisang_Kepok, Waktu_Pengamatan_Per2jam[b]	.	Enter

a. Dependent Variable: Rerata_Kematian_Larva_3kali_Pengulangan

b. All requested variables entered.

Model Summary[b]

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.881[a]	.776	.768	1.5992

a. Predictors: (Constant), Konsentrasi_Fraksi_Etanol_Kulit_Pisang_Kepok, Waktu_Pengamatan_Per2jam

b. Dependent Variable: Rerata_Kematian_Larva_3kali_Pengulangan

ANOVA[a]

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	504.082	2	252.041	98.552	.000[b]
	Residual	145.774	57	2.557		
	Total	649.856	59			

a. Dependent Variable: Rerata_Kematian_Larva_3kali_Pengulangan

b. Predictors: (Constant), Konsentrasi_Fraksi_Etanol_Kulit_Pisang_Kepok, Waktu_Pengamatan_Per2jam

Coefficients[a]

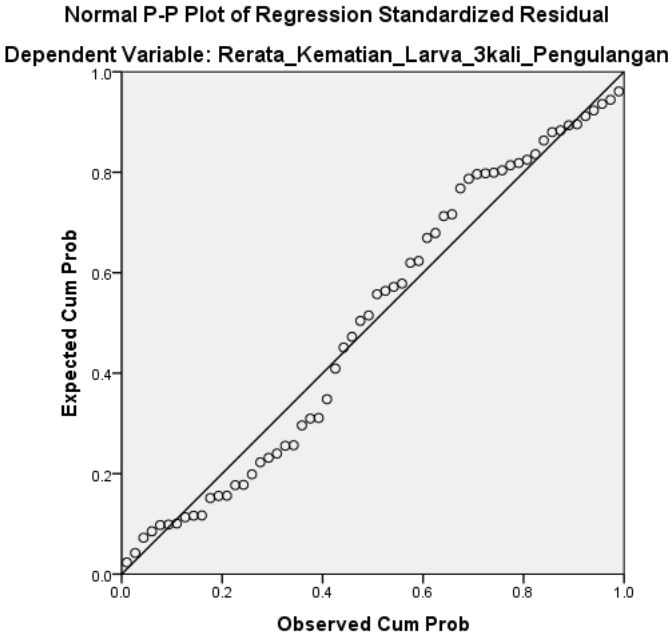
Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
(Constant)	-.311	.615		-.506	.615
Waktu_Pengamatan_Per2jam	.769	.060	.798	12.720	.000
Konsentrasi_Fraksi_Etanol_Kulit_Pisang_Kepok	.427	.072	.373	5.942	.000

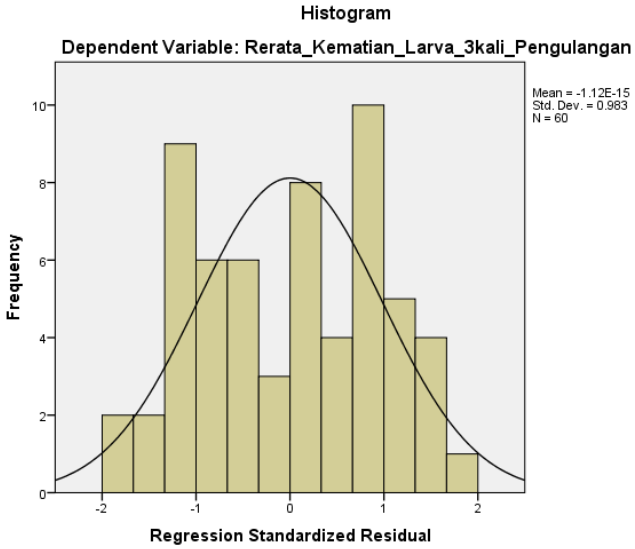
a. Dependent Variable: Rerata_Kematian_Larva_3kali_Pengulangan

Residuals Statistics[a]

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	1.654	13.186	7.420	2.9230	60
Residual	-3.1861	2.8189	.0000	1.5719	60
Std. Predicted Value	-1.973	1.973	.000	1.000	60
Std. Residual	-1.992	1.763	.000	.983	60

a. Dependent Variable: Rerata_Kematian_Larva_3kali_Pengulangan





Lampiran 4

Uji Normalitas dan uji *one-way* ANOVA untuk mengetahui beda nyata tiap % konsentrasi

Tests of Normality

	Konsentrasi_Fraksi_Etanol_Kulit_Pisang_Kepok	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Rerata_Kematian_Larva_3kali_Pengulangan	1	.216	6	.200*	.871	6	.231
	2	.249	6	.200*	.875	6	.249
	3	.247	6	.200*	.879	6	.266
	4	.256	6	.200*	.865	6	.207
	5	.296	6	.109	.805	6	.065
	6	.343	6	.026	.776	6	.036
	7	.324	6	.048	.666	6	.003
	8	.387	6	.005	.577	6	.000
	9	.343	6	.026	.636	6	.001
	10	.378	6	.008	.671	6	.003

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Descriptives

Rerata_Kematian_Larva_3kali_Pengulangan

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
1	6	5.233	4.1505	1.6944	.878	9.589	.3	9.6
2	6	5.850	4.0899	1.6697	1.558	10.142	.6	10.0
3	6	6.367	3.9627	1.6177	2.208	10.525	.6	10.0
4	6	6.650	3.8141	1.5571	2.647	10.653	1.0	10.0
5	6	7.467	3.4349	1.4023	3.862	11.071	1.3	10.0
6	6	8.033	2.7689	1.1304	5.128	10.939	3.0	10.0
7	6	8.367	2.9029	1.1851	5.320	11.413	2.6	10.0
8	6	8.600	2.9665	1.2111	5.487	11.713	2.6	10.0
9	6	8.533	2.7645	1.1286	5.632	11.435	3.0	10.0
10	6	9.100	1.6186	.6608	7.401	10.799	6.0	10.0
Total	60	7.420	3.3188	.4285	6.563	8.277	.3	10.0

Test of Homogeneity of Variances

Rerata_Kematian_Larva_3kali_Pengulangan

Levene Statistic	df1	df2	Sig.
1.550	9	50	.157

ANOVA

Rerata_Kematian_Larva_3kali_Pengulangan terhadap variasi konsentrasi

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	94.066	9	10.452	.940	.499
Within Groups	555.790	50	11.116		
Total	649.856	59			

ANOVA

Rerata_Kematian_Larva_3kali_Pengulangan terhadap waktu pengamatan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	477.970	5	95.594	30.032	.000
Within Groups	171.886	54	3.183		
Total	649.856	59			

Lampiran 5

Uji *post Hoct*LSD (Least Signifcance Different) untuk mengetahui perbedaan antara variasi konsentrasi fraksi etanol kulit pisang kepok dengan *abate* terhadap kematian larva nyamuk *Anopheles sp.* dalam 2 jam pengamatan

Multiple Comparisons

Dependent Variable: Kematian

LSD

(I) Konsentrasi	(J) Konsentrasi	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	.00000	1.89097	1.000	-3.9216	3.9216
	3	.00000	1.89097	1.000	-3.9216	3.9216
	4	-.33333	1.89097	.862	-4.2550	3.5883
	5	-.66667	1.89097	.728	-4.5883	3.2550
	6	-2.00000	1.89097	.302	-5.9216	1.9216
	7	-2.33333	1.89097	.230	-6.2550	1.5883
	8	-2.33333	1.89097	.230	-6.2550	1.5883
	9	-2.66667	1.89097	.172	-6.5883	1.2550
	10	-5.33333*	1.89097	.010	-9.2550	-1.4117
	abate	-9.33333*	1.89097	.000	-13.2550	-5.4117
2	1	.00000	1.89097	1.000	-3.9216	3.9216
	3	.00000	1.89097	1.000	-3.9216	3.9216
	4	-.33333	1.89097	.862	-4.2550	3.5883
	5	-.66667	1.89097	.728	-4.5883	3.2550
	6	-2.00000	1.89097	.302	-5.9216	1.9216
	7	-2.33333	1.89097	.230	-6.2550	1.5883
	8	-2.33333	1.89097	.230	-6.2550	1.5883
	9	-2.66667	1.89097	.172	-6.5883	1.2550
	10	-5.33333*	1.89097	.010	-9.2550	-1.4117
	abate	-9.33333*	1.89097	.000	-13.2550	-5.4117
3	1	.00000	1.89097	1.000	-3.9216	3.9216
	2	.00000	1.89097	1.000	-3.9216	3.9216
	4	-.33333	1.89097	.862	-4.2550	3.5883
	5	-.66667	1.89097	.728	-4.5883	3.2550
	6	-2.00000	1.89097	.302	-5.9216	1.9216
	7	-2.33333	1.89097	.230	-6.2550	1.5883
	8	-2.33333	1.89097	.230	-6.2550	1.5883
	9	-2.66667	1.89097	.172	-6.5883	1.2550
	10	-5.33333*	1.89097	.010	-9.2550	-1.4117
	abate	-9.33333*	1.89097	.000	-13.2550	-5.4117
4	1	.33333	1.89097	.862	-3.5883	4.2550
	2	.33333	1.89097	.862	-3.5883	4.2550
	3	.33333	1.89097	.862	-3.5883	4.2550
	5	-.33333	1.89097	.862	-4.2550	3.5883
	6	-1.66667	1.89097	.388	-5.5883	2.2550
	7	-2.00000	1.89097	.302	-5.9216	1.9216
	8	-2.00000	1.89097	.302	-5.9216	1.9216
	9	-2.33333	1.89097	.230	-6.2550	1.5883
	10	-5.00000*	1.89097	.015	-8.9216	-1.0784
	abate	-9.00000*	1.89097	.000	-12.9216	-5.0784
5	1	.66667	1.89097	.728	-3.2550	4.5883
	2	.66667	1.89097	.728	-3.2550	4.5883
	3	.66667	1.89097	.728	-3.2550	4.5883
	4	.33333	1.89097	.862	-3.5883	4.2550
	6	-1.33333	1.89097	.488	-5.2550	2.5883
	7	-1.66667	1.89097	.388	-5.5883	2.2550
	8	-1.66667	1.89097	.388	-5.5883	2.2550
	9	-2.00000	1.89097	.302	-5.9216	1.9216
	10	-4.66667*	1.89097	.022	-8.5883	-.7450
	abate	-8.66667*	1.89097	.000	-12.5883	-4.7450

6	1	2.00000	1.89097	.302	-1.9216	5.9216
	2	2.00000	1.89097	.302	-1.9216	5.9216
	3	2.00000	1.89097	.302	-1.9216	5.9216
	4	1.66667	1.89097	.388	-2.2550	5.5883
	5	1.33333	1.89097	.488	-2.5883	5.2550
	7	-.33333	1.89097	.862	-4.2550	3.5883
	8	-.33333	1.89097	.862	-4.2550	3.5883
	9	-.66667	1.89097	.728	-4.5883	3.2550
	10	-3.33333	1.89097	.092	-7.2550	.5883
	abate	-7.33333*	1.89097	.001	-11.2550	-3.4117
7	1	2.33333	1.89097	.230	-1.5883	6.2550
	2	2.33333	1.89097	.230	-1.5883	6.2550
	3	2.33333	1.89097	.230	-1.5883	6.2550
	4	2.00000	1.89097	.302	-1.9216	5.9216
	5	1.66667	1.89097	.388	-2.2550	5.5883
	6	.33333	1.89097	.862	-3.5883	4.2550
	8	.00000	1.89097	1.000	-3.9216	3.9216
	9	-.33333	1.89097	.862	-4.2550	3.5883
	10	-3.00000	1.89097	.127	-6.9216	.9216
	abate	-7.00000*	1.89097	.001	-10.9216	-3.0784
8	1	2.33333	1.89097	.230	-1.5883	6.2550
	2	2.33333	1.89097	.230	-1.5883	6.2550
	3	2.33333	1.89097	.230	-1.5883	6.2550
	4	2.00000	1.89097	.302	-1.9216	5.9216
	5	1.66667	1.89097	.388	-2.2550	5.5883
	6	.33333	1.89097	.862	-3.5883	4.2550
	7	.00000	1.89097	1.000	-3.9216	3.9216
	9	-.33333	1.89097	.862	-4.2550	3.5883
	10	-3.00000	1.89097	.127	-6.9216	.9216
	abate	-7.00000*	1.89097	.001	-10.9216	-3.0784
9	1	2.66667	1.89097	.172	-1.2550	6.5883
	2	2.66667	1.89097	.172	-1.2550	6.5883
	3	2.66667	1.89097	.172	-1.2550	6.5883
	4	2.33333	1.89097	.230	-1.5883	6.2550
	5	2.00000	1.89097	.302	-1.9216	5.9216
	6	.66667	1.89097	.728	-3.2550	4.5883
	7	.33333	1.89097	.862	-3.5883	4.2550
	8	.33333	1.89097	.862	-3.5883	4.2550
	10	-2.66667	1.89097	.172	-6.5883	1.2550
	abate	-6.66667*	1.89097	.002	-10.5883	-2.7450
10	1	5.33333*	1.89097	.010	1.4117	9.2550
	2	5.33333*	1.89097	.010	1.4117	9.2550
	3	5.33333*	1.89097	.010	1.4117	9.2550
	4	5.00000*	1.89097	.015	1.0784	8.9216
	5	4.66667*	1.89097	.022	.7450	8.5883
	6	3.33333	1.89097	.092	-.5883	7.2550
	7	3.00000	1.89097	.127	-.9216	6.9216
	8	3.00000	1.89097	.127	-.9216	6.9216
	9	2.66667	1.89097	.172	-1.2550	6.5883
	abate	-4.00000*	1.89097	.046	-7.9216	-.0784
abate	1	9.33333*	1.89097	.000	5.4117	13.2550
	2	9.33333*	1.89097	.000	5.4117	13.2550
	3	9.33333*	1.89097	.000	5.4117	13.2550
	4	9.00000*	1.89097	.000	5.0784	12.9216
	5	8.66667*	1.89097	.000	4.7450	12.5883
	6	7.33333*	1.89097	.001	3.4117	11.2550
	7	7.00000*	1.89097	.001	3.0784	10.9216
	8	7.00000*	1.89097	.001	3.0784	10.9216
	9	6.66667*	1.89097	.002	2.7450	10.5883
	10	4.00000*	1.89097	.046	.0784	7.9216

*. The mean difference is significant at the 0.05 level.

Lampiran 6

Hasil Uji LC50 dengan Probit SPSS

Parameter Estimates

	Parameter	Estimate	Std. Error	Z	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
PROBIT[a]	Konsentrasi_Fraksi_Etanol_Kulitpisangkepok	1.219	.183	6.644	.000	.859	1.578
	Intercept	-.109	.125	-.871	.384	-.234	.016

a. PROBIT model: PROBIT(p) = Intercept + BX (Covariates X are transformed using the base 10.000 logarithm.)

Confidence Limits

	Probability	95% Confidence Limits for Konsentrasi_Fraksi_Etanol_Kulitpisangkepok			95% Confidence Limits for log (Konsentrasi_Fraksi_Etanol_Kulitpisangkepok)[b]		
		Estimate	Lower Bound	Upper Bound	Estimate	Lower Bound	Upper Bound
PROBIT[a]	.010	.015	.000	.155	-1.819	-7.355	-.810
	.020	.025	.000	.210	-1.596	-6.624	-.677
	.030	.035	.000	.256	-1.454	-6.160	-.592
	.040	.045	.000	.296	-1.347	-5.812	-.528
	.050	.055	.000	.334	-1.260	-5.528	-.476
	.060	.065	.000	.370	-1.186	-5.287	-.432
	.070	.076	.000	.405	-1.121	-5.075	-.393
	.080	.086	.000	.438	-1.063	-4.886	-.358
	.090	.098	.000	.472	-1.011	-4.714	-.326
	.100	.109	.000	.505	-.962	-4.555	-.297
	.150	.173	.000	.668	-.761	-3.900	-.175
	.200	.251	.000	.836	-.601	-3.380	-.078
	.250	.344	.001	1.015	-.464	-2.934	.007
	.300	.456	.003	1.211	-.341	-2.535	.083
	.350	.593	.007	1.429	-.227	-2.165	.155
	.400	.762	.015	1.677	-.118	-1.816	.225
	.450	.969	.033	1.966	-.014	-1.481	.294
	.500	1.229	.070	2.313	.090	-1.152	.364
	.550	1.558	.148	2.745	.193	-.828	.439
	.600	1.984	.312	3.323	.297	-.506	.522
	.650	2.545	.648	4.185	.406	-.188	.622
	.700	3.311	1.302	5.753	.520	.115	.760
	.750	4.396	2.354	9.522	.643	.372	.979
	.800	6.028	3.648	20.819	.780	.562	1.318
	.850	8.711	5.159	61.064	.940	.713	1.786
	.900	13.842	7.286	258.903	1.141	.863	2.413
	.910	15.480	7.868	369.419	1.190	.896	2.568
	.920	17.480	8.538	544.474	1.243	.931	2.736
	.930	19.979	9.326	835.436	1.301	.970	2.922
	.940	23.195	10.276	1349.790	1.365	1.012	3.130
	.950	27.498	11.459	2336.629	1.439	1.059	3.369
	.960	33.585	13.003	4459.836	1.526	1.114	3.649
	.970	42.945	15.160	9891.287	1.633	1.181	3.995
	.980	59.543	18.548	28583.637	1.775	1.268	4.456
	.990	99.659	25.399	152778.055	1.999	1.405	5.184

a. A heterogeneity factor is used.

b. Logarithm base = 10.

Lampiran 7

Hasil Uj LT50 dengan Probit SPSS

Parameter Estimates

	Parameter	Estimate	Std. Error	Z	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
PROBIT[a]	Waktu_Pengamatan	3.964	.287	13.790	.000	3.401	4.528
	Intercept	-2.143	.204	-10.528	.000	-2.346	-1.939

a. PROBIT model: PROBIT(p) = Intercept + BX (Covariates X are transformed using the base 10.000 logarithm.)

Confidence Limits

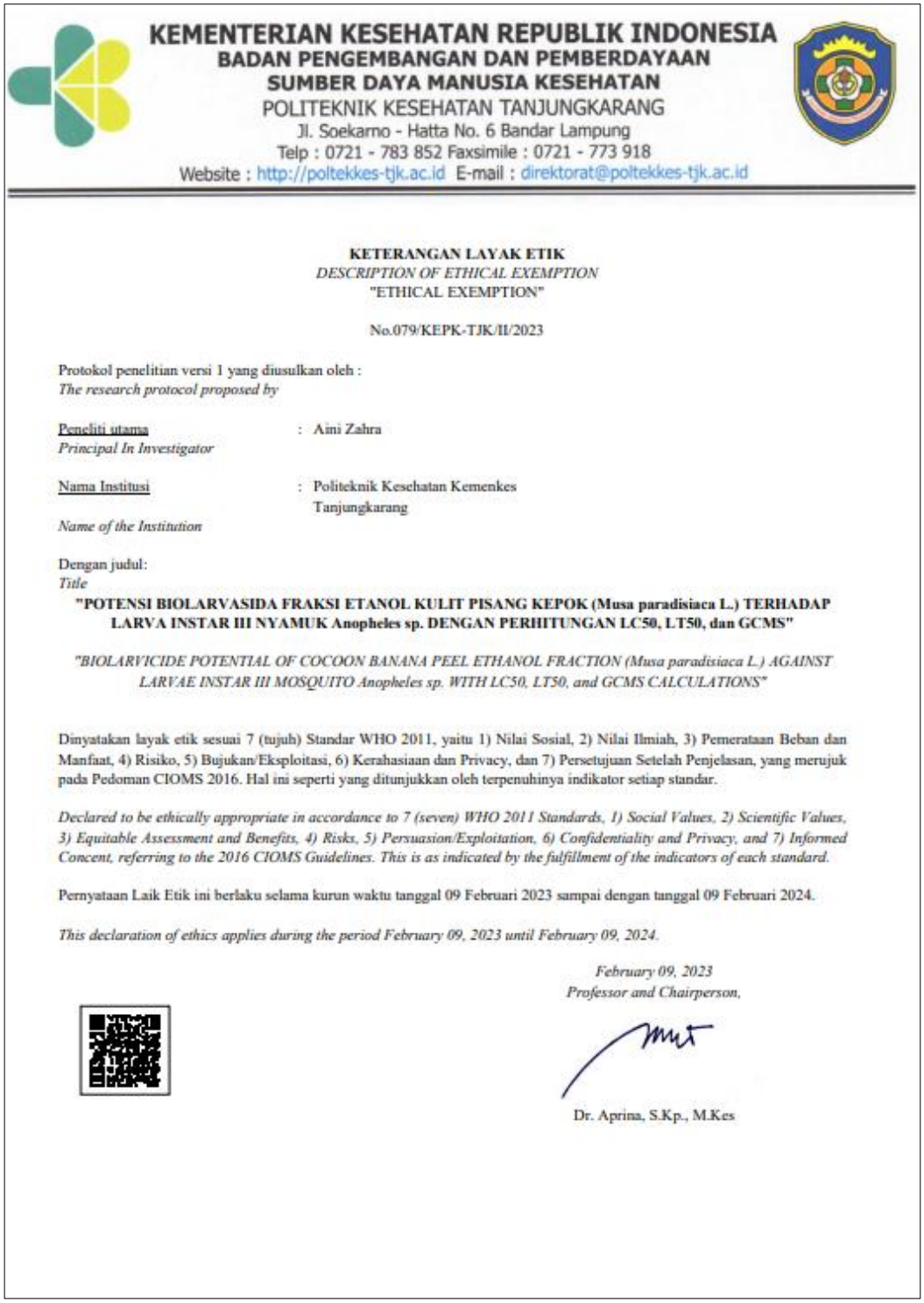
	Probability	95% Confidence Limits for Waktu_Pengamatan			95% Confidence Limits for log (Waktu_Pengamatan)[b]		
		Estimate	Lower Bound	Upper Bound	Estimate	Lower Bound	Upper Bound
PROBIT[a]	.010	.899	.587	1.202	-.046	-.231	.080
	.020	1.053	.714	1.374	.022	-.146	.138
	.030	1.164	.808	1.496	.066	-.092	.175
	.040	1.256	.887	1.595	.099	-.052	.203
	.050	1.335	.957	1.681	.126	-.019	.226
	.060	1.407	1.021	1.758	.148	.009	.245
	.070	1.473	1.080	1.828	.168	.033	.262
	.080	1.535	1.136	1.893	.186	.055	.277
	.090	1.593	1.189	1.955	.202	.075	.291
	.100	1.649	1.240	2.013	.217	.094	.304
	.150	1.902	1.476	2.275	.279	.169	.357
	.200	2.129	1.694	2.510	.328	.229	.400
	.250	2.346	1.905	2.732	.370	.280	.437
	.300	2.560	2.115	2.951	.408	.325	.470
	.350	2.776	2.328	3.172	.443	.367	.501
	.400	2.997	2.548	3.399	.477	.406	.531
	.450	3.227	2.778	3.639	.509	.444	.561
	.500	3.472	3.021	3.895	.541	.480	.591
	.550	3.735	3.281	4.176	.572	.516	.621
	.600	4.022	3.561	4.489	.604	.552	.652
	.650	4.343	3.869	4.848	.638	.588	.686
	.700	4.708	4.212	5.269	.673	.624	.722
	.750	5.137	4.603	5.781	.711	.663	.762
	.800	5.661	5.066	6.431	.753	.705	.808
	.850	6.339	5.642	7.308	.802	.751	.864
	.900	7.309	6.433	8.621	.864	.808	.936
	.910	7.564	6.637	8.978	.879	.822	.953
	.920	7.852	6.863	9.383	.895	.837	.972
	.930	8.182	7.120	9.853	.913	.852	.994
	.940	8.566	7.416	10.408	.933	.870	1.017
	.950	9.026	7.767	11.083	.955	.890	1.045
	.960	9.598	8.197	11.935	.982	.914	1.077
	.970	10.351	8.755	13.079	1.015	.942	1.117
	.980	11.445	9.551	14.779	1.059	.980	1.170
	.990	13.409	10.944	17.937	1.127	1.039	1.254

a. A heterogeneity factor is used.

b. Logarithm base = 10.

Lampiran 8

Kaji Etik



KEMENTERIAN KESEHATAN REPUBLIK INDONESIA
BADAN PENGEMBANGAN DAN PEMBERDAYAAN SUMBER DAYA MANUSIA KESEHATAN
POLITEKNIK KESEHATAN TANJUNGKARANG
Jl. Soekarno - Hatta No. 6 Bandar Lampung
Telp : 0721 - 783 852 Faxsimile : 0721 - 773 918
Website : http://poltekkes-tjk.ac.id E-mail : direktorat@poltekkes-tjk.ac.id

KETERANGAN LAYAK ETIK
DESCRIPTION OF ETHICAL EXEMPTION
"ETHICAL EXEMPTION"

No.079/KEPK-TJK/II/2023

Protokol penelitian versi 1 yang diusulkan oleh :
The research protocol proposed by

Peneliti utama : Aini Zahra
Principal In Investigator

Nama Institusi : Politeknik Kesehatan Kemenkes Tanjungkarang
Name of the Institution

Dengan judul:
Title

"POTENSI BIOLARVASIDA FRAKSI ETANOL KULIT PISANG KEPOK (Musa paradisiaca L.) TERHADAP LARVA INSTAR III NYAMUK Anopheles sp. DENGAN PERHITUNGAN LC50, LT50, dan GCMS"

"BIOLARVICIDE POTENTIAL OF COCOON BANANA PEEL ETHANOL FRACTION (Musa paradisiaca L.) AGAINST LARVAE INSTAR III MOSQUITO Anopheles sp. WITH LC50, LT50, and GCMS CALCULATIONS"

Dinyatakan layak etik sesuai 7 (tujuh) Standar WHO 2011, yaitu 1) Nilai Sosial, 2) Nilai Ilmiah, 3) Pemerataan Beban dan Manfaat, 4) Risiko, 5) Bujukan/Eksploitasi, 6) Kerahasiaan dan Privacy, dan 7) Persetujuan Setelah Penjelasan, yang merujuk pada Pedoman CIOMS 2016. Hal ini seperti yang ditunjukkan oleh terpenuhinya indikator setiap standar.

Declared to be ethically appropriate in accordance to 7 (seven) WHO 2011 Standards, 1) Social Values, 2) Scientific Values, 3) Equitable Assessment and Benefits, 4) Risks, 5) Persuasion/Exploitation, 6) Confidentiality and Privacy, and 7) Informed Concent, referring to the 2016 CIOMS Guidelines. This is as indicated by the fulfillment of the indicators of each standard.

Pernyataan Laik Etik ini berlaku selama kurun waktu tanggal 09 Februari 2023 sampai dengan tanggal 09 Februari 2024.

This declaration of ethics applies during the period February 09, 2023 until February 09, 2024.

February 09, 2023
Professor and Chairperson,

Dr. Aprina, S.Kp., M.Kes

Lampiran 9

Surat Determinasi Kulit Pisang Kepok

KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI
UNIVERSITAS LAMPUNG
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
JURUSAN BIOLOGI
Jalan Prof. Dr. SoemantriBrodjonegoro No.1 Bandar Lampung 35145
Website : http://fmipa.unila.ac.id/web/biologi/ - Telp. 0721-704625-Fax. 0721-704625

Bandar Lampung, 17 Mei 2023

Kepada yth.
Sdr : Aini Zahra
NPM : 1913353044

Bersama ini kami sampaikan hasil determinasi tumbuhan dari Laboratorium Botani Jurusan Biologi FMIPA Unila adalah sebagai berikut. Nama ilmiah untuk Tanaman Pisang Kepok adalah *Musa paradisiaca* L.

Demikian hasil determinasi ini, semoga berguna bagi saudara

Mengetahui:

Kepala Laboratorium Botani

Dr. Sri Wahyuningsih, M.Si.
NIP 196111251990032001

Penanggung Jawab Determinasi

Dra. Yulianty, M.Si.
NIP 196507131991032002

KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI
UNIVERSITAS LAMPUNG
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
JURUSAN BIOLOGI
Jalan Prof. Dr. SoemantriBrodjonegoro No.1 Bandar Lampung 35145
Website : http://fmipa.unila.ac.id/web/biologi/ - Telp. 0721-704625-Fax. 0721-704625

Klasifikasi Tanaman Pisang Kepok menurut sistem klasifikasi Cronquist (1981) adalah sebagai berikut :

Kerajaan	: Plantae
Divisi	: Magnoliophyta
Kelas	: Liliopsida
Bangsa	: Zingiberales
Suku	: Musaceae
Marga	: *Musa paradisiaca* L.

Sumber Klasifikasi :

Cronquist, A. 1981.*An Integrated System of Clasification of Flowering Plants*. Columbia University Press. New York

Lampiran 10

Surat Izin Penelitian GCMS di Laboratorium Sentral UNPAD

KEMENTERIAN KESEHATAN REPUBLIK INDONESIA
DIREKTORAT JENDERAL TENAGA KESEHATAN
POLITEKNIK KESEHATAN TANJUNGKARANG
Jalan Soekarno - Hatta No.6 Bandar Lampung
Telp. : 0721 - 783 852 Faxsimile : 0721 - 773918
E-mail : direktorat@poltekkes-tjk.c.id Website : http://poltekkes-tjk.ac.id

Nomor : PP.03. 01 / I. 1 / 1580 /2023 3 Maret 2023
Lampiran : ..... Eks
Hal : Izin Penelitian

Yang Terhormat, Rektor Universitas Padjajaran
Di – Jl. Raya Bandung-Sumedang Km. 21 Jatinangor

Sehubungan dengan penyusunan Skripsi bagi mahasiswa Tingkat IV Program Studi Teknologi Laboratorium Medis Program Sarjana Terapan Jurusan Teknologi Laboratorium Medis Poltekkes Kemenkes Tanjungkarang Tahun Akademik 2022/2023, maka kami mengharapkan dapat diberikan izin kepada mahasiswa kami untuk dapat melakukan penelitian di Institusi yang Bpk/Ibu pimpin. Adapun mahasiswa yang melakukan penelitian adalah sebagai berikut :

No	NAMA	JUDUL PENELITIAN	TEMPAT PENELITIAN
1	Aini Zahra NIM: 1913353044	Potensi Biolarvasida Fraksi Etanol Kulit Pisang Kepok (*Musa paradisiaca L.*) Terhadap Larva Instar III Nyamuk *Anopheles sp.* dengan Perhitungan LC50, LT50, dan GCMS	Laboratorium Sentral Universitas Padjajaran

Atas perhatian dan kerjasamanya diucapkan terima kasih.

Wakil Direktur I,

Ns.Martini Pairus, S.Kep,M.Sc
NIP. 197008021990032002

Tembusan :
Ka.Jurusan Teknologi Laboratorium Medis

Lampiran 11

Hasil fitokimia fraksi etanol kulit pisang kepok

KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN, RISET DAN TEKNOLOGI
UNIVERSITAS LAMPUNG
FAKULTAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM
JURUSAN KIMIA

Jl. Prof. Dr. Soemantri Brodjonegoro Nomor 1 Bandar Lampung 35145
Telepon 0721-704625, Faximili 0721-704625

Yth. Aini Zahra
NPM 1913353044
Di Bandar Lampung

Dengan Hormat,

Bersama ini kami sampaikan hasil uji kualitatif fitokimia pada Fraksi Etanol Kulit Pisang Kepokyang telah diuji di Laboratorium Kimia Organik, FMIPA, Universitas Lampung, adalah sebagai berikut:

No	Jenis Uji Kualitatif Fitokimia	Hasil Uji Fitokimia	Keterangan
1	Saponin	-	Negatif
2	Steroid	-	Negatif
3	Terpenoid	+	Positif
4	Tanin	+	Positif
5	Alkaloid	+	Positif
6	Flavonoid	+	Positif

Demikian hasil uji yang telah kami lakukan, atas perhatian dan bantuan Bapak/Ibu/Saudara(i)kami ucapkan terima kasih.

Bandar Lampung, 10 April 2022
PLP Lab. Kimia Organik FMIPA Unila

Wiwit Kasmawati
NIP. 197602021996032001

ROYAL SOCIETY OF CHEMISTRY | ACCREDITED DEGREE

KAN LSSM-067-IDN

Lampiran 12

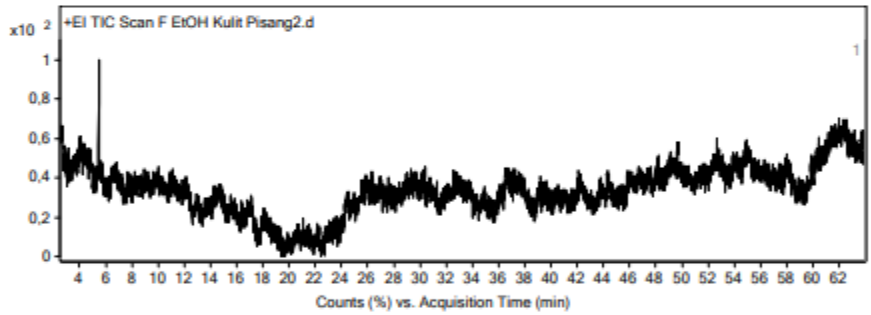
Hasil uji GCMS

Qualitative Analysis Report

Data File	F EtOH Kulit Pisang2.D	**Sample Name**	
Sample Type		**Position**	1
Instrument Name	GCMS	**User Name**	
Acq Method	Robet P Adams.M	**Acquired Time**	12/05/2023 13:16:19 (UTC+07:00)
IRM Calibration Status	Not Applicable	**DA Method**	Anise OIl.m
Comment			
Expected Barcode		**Sample Amount**	
Dual Inj Vol		**TuneName**	Tune F1.u
TunePath	D:\MassHunter\GCMS\1\5977\	**TuneDateStamp**	2023-05-04T13:14:28+07:00
MSFirmwareVersion	60034	**OperatorName**	
RunCompletedFlag	True	**Acquisition Time (Local)**	12/05/2023 13:16:19 (UTC+07:00)
Acquisition SW Version	MassHunter GC/MS Acquisition 10.0.368 14-Feb-2019 Copyright © 1989-2018 Agilent Technologies, Inc.	**SingleQuadrupole Driver Version**	10000
SingleQuadrupole Firmware Version	60034		

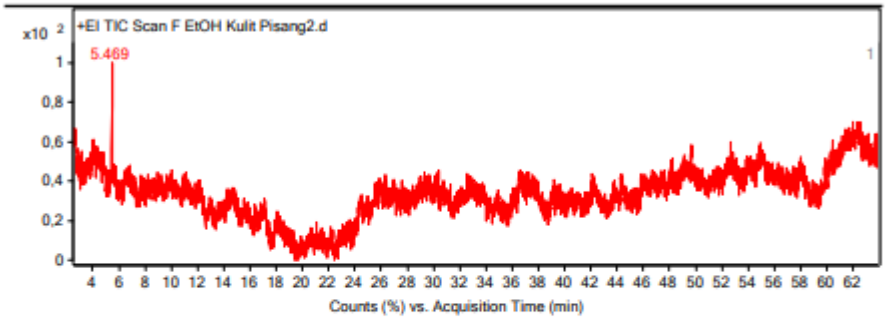
Chromatograms

Fragmentor Voltage **Collision Energy** 0 **Ionization Mode** EI



Fragmentor Voltage **Collision Energy** 0 **Ionization Mode** EI

Qualitative Analysis Report

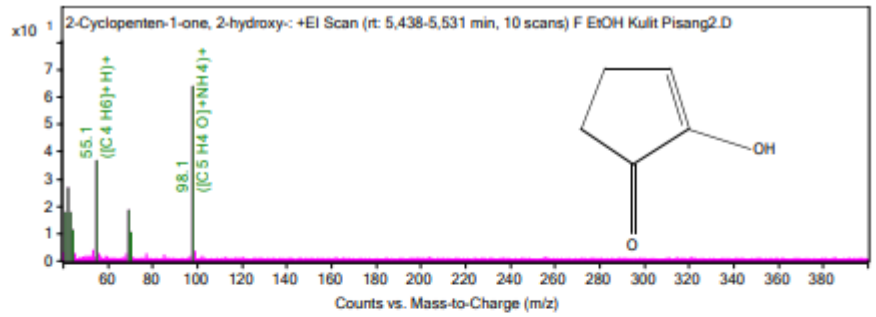


Integration Peak List

Peak	Start	RT	End	Height	Area	Area %
1	5422	5469	5551	35228	109187	10000

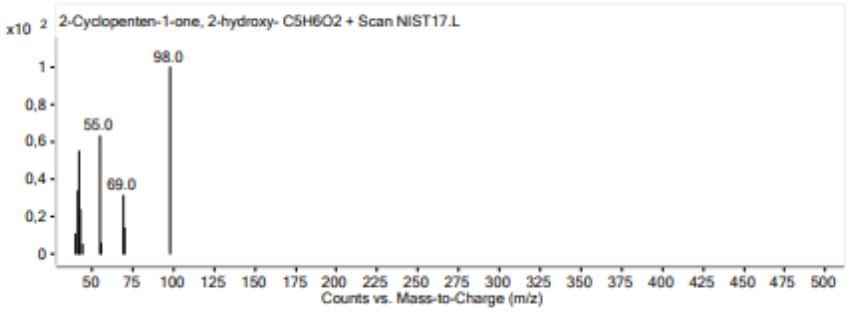
Spectra

Spectrum Source	Fragmentor Voltage	Collision Energy	Ionization Mode
Peak (1) in "+ TIC Scan"		0	EI

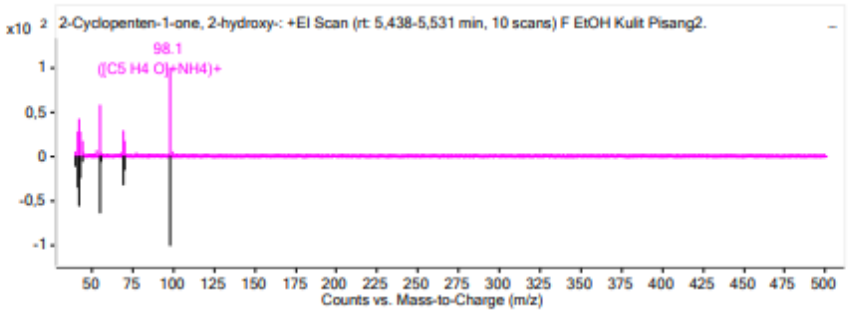


Library Spectrum

Qualitative Analysis Report



Difference Spectrum

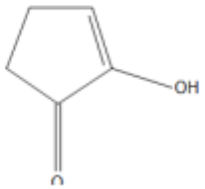


Peak List

m/z	Abund	Formula	Ion
411	1764	C3 H4	(M+H)+
421	2670	C2	(M+NH4)+
431	1752	C2 H	(M+NH4)+
440	1116	C2 H2	(M+NH4)+
551	3662	C4 H6	(M+H)+
691	1855	C4 H3	(M+NH4)+
701	1051	C4 H4	(M+NH4)+
981	6397	C5 H4 O	(M+NH4)+

Spectrum Structure

2-Cyclopenten-1-one, 2-hydroxy-



--- End Of Report ---

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LAMPIRAN