

LAMPIRAN-1: UJI KELAIKAN ETIK



KOMISI ETIK RISET
FAKULTAS KEDOKTERAN
UNIVERSITAS TRISAKTI
Jalan Kyai Tapa, Grogol, (Kampus B) Jakarta 11440
Telp: (021) 5672731, 5655786
Fax : (021) 5660706

PERSETUJUAN ETIK
Ethical Clearance
Nomor: 125/KER/FK/XII/2017

Komisi Etik Riset Fakultas Kedokteran Universitas Trisakti setelah mempelajari dengan seksama dan mendengarkan penjelasan dari peneliti utama tentang kemungkinan adanya dampak etis terhadap subyek riset, masyarakat dan lingkungan, menetapkan penelitian dengan judul:

"PENGARUH PEMBERIAN EKSTRAK DAUN *CRESCENTIA CUJETE* TERHADAP STRES OKSIDATIF PADA JANTUNG DAN OTAK TIKUS *SPRAGUE DAWLEY* YANG DIINDUKSI HIPOKSIA"

Peneliti Utama : Alfred H Alphanto


Lembaga/Tempat penelitian : FK Universitas Tarumanagara

Dinyatakan memenuhi persyaratan etik untuk dilaksanakan.

Jakarta, 18 Desember 2017

Ketua

Prof. DR. dr. Adi Hidayat, MS

Sekretaris

dr. Alvina, SpPK

LAMPIRAN-2 : IDENTIFIKASI TANAMAN



LEMBAGA ILMU PENGETAHUAN INDONESIA
(INDONESIAN INSTITUTE OF SCIENCES)
PUSAT PENELITIAN BIOLOGI
(RESEARCH CENTER FOR BIOLOGY)
Cibinong Science Center, Jl. Raya Jakarta - Bogor KM. 46 Cibinong 16911
Telp. (+62 21) 87907636 - 87907604, Fax. 87907612
Website : www.biologi.lipi.go.id



Cibinong, Agustus 2017

Nomor : 1986/IPH.1.01/If.07/VIII/2017
Lampiran : -
Perihal : Hasil identifikasi/determinasi Tumbuhan

Kepada Yth.
Bpk./Ibu/Sdr(i). **Alfred H. Alphanto**
Univ. TARUMANAGARA
Jl. Letjen S. Parman No. 1
Jakarta 11440

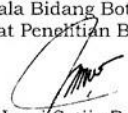
Dengan hormat,

Bersama ini kami sampaikan hasil identifikasi/determinasi tumbuhan yang Saudara kirimkan ke "Herbarium Bogoriense", Bidang Botani Pusat Penelitian Biologi-LIPI Bogor, adalah sebagai berikut :

No.	No. Kol.	Jenis	Suku
1	Berenuk	<i>Crescentia cujete</i> L.	Bignoniaceae

Demikian, semoga berguna bagi Saudara.

Kepala Bidang Botani
Pusat Penelitian Biologi-LIPI,


Dr. Joeny Setijo Rahajoe
NIP. 196706241993032004

LAMPIRAN-3: PENGUKURAN PADA SAMPEL

Tabel 1. Aktivitas Katalase Jantung

Pengenceran	10	Molaritas	27.2	Volume	0.05
Waktu	T1NC	T2NC	T3NC	T4NC	BLANKO
1	0.74	0.566	0.868	0.92	0.41
3	0.702	0.532	0.836	0.886	0.41
Δ absorbansi	0.038	0.034	0.032	0.034	0
Aktivitas Katalase	0.139706	0.125	0.117647	0.125	
Rata-rata	0.126838235				

Pengenceran	10	Molaritas	27.2	Volume	0.05
Waktu	T1H3C	T2H3C	T3H3C	T4H3C	BLANKO
1	0.927	0.725	0.482	0.547	0.41
3	0.865	0.684	0.44	0.515	0.41
Δ absorbansi	0.062	0.041	0.042	0.032	0
Aktivitas Katalase	0.227941	0.150735	0.154412	0.117647	
Rata-rata	0.162683824				

Pengenceran	10	Molaritas	27.2	Volume	0.05
Waktu	T1H7C	T2H7C	T3H7C	T4H7C	BLANKO
1	0.501	0.629	0.535	0.479	0.41
3	0.473	0.603	0.506	0.46	0.41
Δ absorbansi	0.028	0.026	0.029	0.019	0
Aktivitas Katalase	0.102941	0.095588	0.106618	0.069853	
Rata-rata	0.09375				

Pengenceran	10	Molaritas	27.2	Volume	0.05
Waktu	T1H14C	T2H14C	T3H14C	T4H14C	BLANKO
1	0.552	0.576	0.461	0.471	0.41
3	0.531	0.553	0.439	0.449	0.41
Δ absorbansi	0.021	0.023	0.022	0.022	0
Aktivitas Katalase	0.077206	0.084559	0.080882	0.080882	
Rata-rata	0.080882353				

Pengenceran	10	Molaritas	27.2	Volume	0.05
Waktu	T1NK	T2NK	T3NK	T4NK	BLANKO
1	0.563	0.648	0.536	0.921	0.41
3	0.533	0.62	0.505	0.891	0.41
Δ absorbansi	0.03	0.028	0.031	0.03	0
Aktivitas Katalase	0.110294	0.102941	0.113971	0.110294	
Rata-rata	0.109375				

Pengenceran	10	Molaritas	27.2	Volume	0.05
Waktu	T1H3K	T2H3K	T3H3K	T4H3K	BLANKO
1	0.759	0.725	0.738	0.728	0.41
3	0.699	0.669	0.67	0.659	0.41
Δ absorbansi	0.06	0.056	0.068	0.069	0
Aktivitas Katalase	0.220588	0.205882	0.25	0.253676	
Rata-rata	0.225490196				

Pengenceran	10	Molaritas	27.2	Volume	0.05
Waktu	T1H7K	T2H7K	T3H7K	T4H7K	BLANKO
1	0.94	0.77	0.649	0.837	0.41
3	0.92	0.753	0.631	0.812	0.41
Δ absorbansi	0.02	0.017	0.018	0.025	0
Aktivitas Katalase	0.073529	0.0625	0.066176	0.091912	
Rata-rata	0.073529412				

Pengenceran	25	Molaritas	27.2	Volume	0.05
Waktu	T1H14K	T2H14K	T3H14K	T4H14K	BLANKO
1	0.807	0.812	0.802	0.802	0.41
3	0.789	0.795	0.788	0.787	0.41
Δ absorbansi	0.018	0.017	0.014	0.015	0
Aktivitas Katalase	0.066176	0.0625	0.051471	0.055147	
Rata-rata	0.06004902				

Tabel 2. Aktivitas Katalase Darah

Pengenceran	5	Molaritas	27.2	Volume	0.05
Waktu	T1NC	T2NC	T3NC	T4NC	BLANKO
1	0.761	0.821	0.752	0.720	0.41
2	0.71	0.772	0.708	0.668	0.41
Δ absorbansi	0.162	1.226	0.044	0.052	0.000
Aktivitas Katalase	0.168	1.298	0.162	0.191	
Rata-rata	0.146				
Pengenceran	5	Molaritas	27.2	Volume	0.05
Waktu	T1H3C	T2H3C	T3H3C	T4H3C	BLANKO
1	0.167	0.890	0.876	0.920	0.41
2	0.152	0.853	0.837	0.890	0.41
Δ absorbansi	0.159	0.037	0.039	0.030	0.000
Aktivitas Katalase	0.168	0.136	0.143	0.110	
Rata-rata	0.139				
Pengenceran	5	Molaritas	27.2	Volume	0.05
Waktu	T1H7C	T2H7C	T3H7C	T4H7C	BLANKO
1	1.004	0.995	0.89	0.97	0.41
2	0.98	0.97	0.863	0.942	0.41
Δ absorbansi	0.024	0.025	0.027	0.028	0.000
Aktivitas Katalase	0.088	0.092	0.099	0.103	
Rata-rata	0.096				
Pengenceran	5	Molaritas	27.2	Volume	0.05
Waktu	T1H14C	T2H14C	T3H14C	T4H14C	BLANKO
1	0.98	0.962	0.896	0.923	0.41
2	0.972	0.954	0.884	0.911	0.41
Δ absorbansi	0.008	0.008	0.012	0.012	0.000
Aktivitas Katalase	0.029	0.029	0.044	0.044	
Rata-rata	0.037				

Pengenceran	5	Molaritas	27.2	Volume	0.05
Waktu	T1NK	T2NK	T3NK	T4NK	BLANKO
1	0.738	0.558	0.897	0.785	0.41
2	0.692	0.525	0.863	0.742	0.41
Δ absorbansi	0.046	0.033	0.034	0.043	0.000
Aktivitas Katalase	0.169	0.121	0.125	0.158	
Rata-rata	0.143				

Pengenceran	5	Molaritas	27.2	Volume	0.05
Waktu	T1H3K	T2H3K	T3H3K	T4H3K	BLANKO
1	0.616	0.55	0.785	0.695	0.41
2	0.599	0.538	0.756	0.658	0.41
Δ absorbansi	0.017	0.012	0.029	0.037	0.000
Aktivitas Katalase	0.063	0.044	0.107	0.136	
Rata-rata	0.087				

Pengenceran	5	Molaritas	27.2	Volume	0.05
Waktu	T1H7K	T2H7K	T3H7K	T4H7K	BLANKO
1	0.773	0.891	0.952	0.843	0.41
2	0.755	0.875	0.937	0.827	0.41
Δ absorbansi	0.018	0.016	0.015	0.016	0.000
Aktivitas Katalase	0.066	0.059	0.055	0.059	
Rata-rata	0.060				

Pengenceran	5	Molaritas	27.2	Volume	0.05
Waktu	T1H14K	T2H14K	T3H14K	T4H14K	BLANKO
1	0.968	0.829	1.05	0.943	0.41
2	0.955	0.822	1.04	0.935	0.41
Δ absorbansi	0.013	0.007	0.010	0.008	0.000
Aktivitas Katalase	0.048	0.026	0.037	0.029	
Rata-rata	0.035				

Tabel 3. Regresi Linear DPPH Vitamin C

Best-fit values \pm SE	
Slope	17.07 \pm 2.496
Y-intercept	-18.27 \pm 10.59
X-intercept	1.07
1/slope	0.05857
95% Confidence Intervals	
Slope	9.132 to 25.02
Y-intercept	-51.96 to 15.43
X-intercept	-1.631 to 2.152
Goodness of Fit	
R square	0.9398
Sy.x	7.892
Is slope significantly non-zero?	
F	46.81
DFn, DFd	1, 3
P value	0.0064
Deviation from zero?	Significant
Equation	$Y = 17.07 * X - 18.27$
Data	
Number of X values	5
Maximum number of Y replicates	1
Total number of values	5
Number of missing values	0

Tabel 4. Regresi Linear DPPH Ekstrak Daun *Crescentia cujete*

Best-fit values \pm SE	
Slope	0.2531 \pm 0.01705
Y-intercept	0
X-intercept	0
1/slope	3.951
95% Confidence Intervals	
Slope	0.2057 to 0.3004
Goodness of Fit	
Sy.x	5.785
Is slope significantly non-zero?	
F	220.3
DFn, DFd	1, 4
P value	0.0001
Deviation from zero?	Significant
Equation	$Y = 0.2531 * X + 0$
Data	
Number of X values	5
Maximum number of Y replicates	1
Total number of values	5
Number of missing values	0

Tabel 5. Regresi Linear Standar Fenolik Tanin

Best-fit values \pm SE	
Slope	0.000728 \pm 4.881e-005
Y-intercept	0.1254 \pm 0.02536
X-intercept	-172.3
1/slope	1374
95% Confidence Intervals	
Slope	0.0005727 to 0.0008833
Y-intercept	0.04468 to 0.2061
X-intercept	-357.8 to -50.89
Goodness of Fit	
R square	0.9867
Sy.x	0.01544
Is slope significantly non-zero?	
F	222.4
DFn, DFd	1, 3
P value	0.0007
Deviation from zero?	Significant
Equation	Y = 0.000728*X + 0.1254
Data	
Number of X values	5
Maximum number of Y replicates	1
Total number of values	5
Number of missing values	0

Tabel 6. Regresi Linear Standar Flavonoid Kuersetin

Best-fit values \pm SE	
Slope	0.01248 \pm 0.0003456
Y-intercept	0.0056 \pm 0.004233
X-intercept	-0.4487
1/slope	80.13
95% Confidence Intervals	
Slope	0.01138 to 0.01358
Y-intercept	-0.007872 to 0.01907
X-intercept	-1.65 to 0.5888
Goodness of Fit	
R square	0.9977
Sy.x	0.005465
Is slope significantly non-zero?	
F	1304
DFn, DFd	1, 3
P value	<0.0001
Deviation from zero?	Significant
Equation	Y = 0.01248*X + 0.0056
Data	
Number of X values	5
Maximum number of Y replicates	1
Total number of values	5
Number of missing values	0

Tabel 7. Regresi Linear BSLT

Best-fit values \pm SE	
Slope	0.0007911 \pm 7.249e-005
Y-intercept	0.2028 \pm 0.04068
X-intercept	-256.3
1/slope	1264
95% Confidence Intervals	
Slope	0.0004792 to 0.001103
Y-intercept	0.02774 to 0.3778
X-intercept	-727.9 to -27.24
Goodness of Fit	
R square	0.9835
Sy.x	0.05671
Is slope significantly non-zero?	
F	119.1
DFn, DFd	1, 2
P value	0.0083
Deviation from zero?	Significant
Equation	Y = 0.0007911*X + 0.2028
Data	
Number of X values	4
Maximum number of Y replicates	1
Total number of values	4
Number of missing values	0

Tabel 8. Statistik Kolom Jantung yang Diberi Ekstrak

Number of values	4	4	4	4
Minimum	0.006995	0.01443	0.004077	0.004553
25% Percentile	0.007489	0.01462	0.004165	0.004554
Median	0.00903	0.01541	0.005257	0.004796
75% Percentile	0.0104	0.01648	0.006642	0.00595
Maximum	0.01084	0.01676	0.006828	0.006255
Mean	0.008974	0.0155	0.005355	0.0051
Std. Deviation	0.001572	0.0009748	0.001315	0.0008024
Std. Error of Mean	0.0007861	0.0004874	0.0006577	0.0004012
Lower 95% CI of mean	0.006472	0.01395	0.003262	0.003823
Upper 95% CI of mean	0.01148	0.01705	0.007448	0.006377
Sum	0.0359	0.06201	0.02142	0.0204

Tabel 9. Tes Mann-Whitney yang Diberi Ekstrak Normoksia dan Hipoksia 3 Hari

Table Analyzed	jantung cekok
Column B	3
vs.	vs.
Column A	0
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column A	0.00903, n=4
Median of column B	0.01541, n=4
Difference: Actual	0.006383
Difference: Hodges-Lehmann	0.006383

Tabel 10. Tes Mann-Whitney Jantung yang Diberi Ekstrak Normoksia dan Hipoksia 7 Hari

Table Analyzed	jantung cekok
Column C	7
vs.	vs.
Column A	0
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,C	26 , 10
Mann-Whitney U	0
Difference between medians	
Median of column A	0.00903, n=4
Median of column C	0.005257, n=4
Difference: Actual	-0.003773
Difference: Hodges-Lehmann	-0.00351

Tabel 11. Tes Mann-Whitney Jantung yang Diberi Ekstrak Normoksia dan Hipoksia 14 Hari

Table Analyzed	jantung cekok
Column D	14
vs.	vs.
Column A	0
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,D	26 , 10
Mann-Whitney U	0
Difference between medians	
Median of column A	0.00903, n=4
Median of column D	0.004796, n=4
Difference: Actual	-0.004234
Difference: Hodges-Lehmann	-0.004234

Tabel 12. Statistik Kolom Jantung yang tidak diberi ekstrak

Number of values	4	4	4	4
Minimum	0.006737	0.009352	0.002272	0.002325
25% Percentile	0.006788	0.01001	0.002624	0.002492
Median	0.007728	0.01259	0.003996	0.003118
75% Percentile	0.0089	0.01385	0.004318	0.003592
Maximum	0.009028	0.01407	0.00432	0.003708
Mean	0.007805	0.01215	0.003646	0.003067
Std. Deviation	0.001138	0.00205	0.0009636	0.0005766
Std. Error of Mean	0.0005691	0.001025	0.0004818	0.0002883
Lower 95% CI of mean	0.005994	0.008888	0.002112	0.00215
Upper 95% CI of mean	0.009616	0.01541	0.005179	0.003985
Sum	0.03122	0.0486	0.01458	0.01227

Tabel 13. Tes Mann-Whitney Jantung yang tidak diberi ekstrak Normoksia dan Hipoksia 3 Hari

Table Analyzed	jantung kontrol
Column B	3
vs.	vs.
Column A	0
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column A	0.007728, n=4
Median of column B	0.01259, n=4
Difference: Actual	0.004859
Difference: Hodges-Lehmann	0.004854

Tabel 14. Tes Mann-Whitney Jantung yang tidak diberi ekstrak Normoksia dan Hipoksia 7 Hari

Table Analyzed	jantung kontrol
Column C	7
vs.	vs.
Column A	0
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,C	26 , 10
Mann-Whitney U	0
Difference between medians	
Median of column A	0.007728, n=4
Median of column C	0.003996, n=4
Difference: Actual	-0.003733
Difference: Hodges-Lehmann	-0.004335

Tabel 15. Tes Mann-Whitney Jantung Kontrol Normoksia dan Hipoksia 14 Hari

Table Analyzed	jantung kontrol
Column D	14
vs.	vs.
Column A	0
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,D	26 , 10
Mann-Whitney U	0
Difference between medians	
Median of column A	0.007728, n=4
Median of column D	0.003118, n=4
Difference: Actual	-0.00461
Difference: Hodges-Lehmann	-0.004712

Tabel 16. Statistik Kolom Darah yang Diberi Ekstrak

Number of values	4	4	4	4
Minimum	0.08846	0.05231	0.03226	0.01722
25% Percentile	0.09196	0.05261	0.03231	0.01779
Median	0.1035	0.05558	0.03517	0.01963
75% Percentile	0.1164	0.06169	0.04011	0.02116
Maximum	0.1204	0.06303	0.04085	0.02162
Mean	0.1039	0.05662	0.03586	0.01953
Std. Deviation	0.01307	0.004849	0.004226	0.001804
Std. Error of Mean	0.006537	0.002425	0.002113	0.0009018
Lower 95% CI of mean	0.08314	0.04891	0.02914	0.01666
Upper 95% CI of mean	0.1248	0.06434	0.04258	0.02239
Sum	0.4158	0.2265	0.1434	0.0781

Table 17. Tes Mann-Whitney Darah yang Diberi Ekstrak Normoksia dan Hipoksia 3 Hari

Table Analyzed	darah cekok
Column B	h3 cekok
vs.	vs.
Column A	normox cekok
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	26 , 10
Mann-Whitney U	0
Difference between medians	
Median of column A	0.1035, n=4
Median of column B	0.05558, n=4
Difference: Actual	-0.0479
Difference: Hodges-Lehmann	-0.0479

Tabel 18. Tes Mann-Whitney Darah yang Diberi Ekstrak Normoksia dan Hipoksia 7 Hari

Table Analyzed	darah cekok
Column C	h7 cekok
vs.	vs.
Column A	normox cekok
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,C	26 , 10
Mann-Whitney U	0
Difference between medians	
Median of column A	0.1035, n=4
Median of column C	0.03517, n=4
Difference: Actual	-0.06831
Difference: Hodges-Lehmann	-0.06831

Tabel 19. Tes Mann-Whitney Darah yang Diberi Ekstrak Normoksia dan Hipoksia 14 Hari

Table Analyzed	darah cekok
Column D	h14 cekok
vs.	vs.
Column A	normox cekok
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,D	26 , 10
Mann-Whitney U	0
Difference between medians	
Median of column A	0.1035, n=4
Median of column D	0.01963, n=4
Difference: Actual	-0.08384
Difference: Hodges-Lehmann	-0.08384

Tabel 20. Statistik Kolom Darah yang tidak diberi ekstrak

Number of values	4	4	4	4
Minimum	0.07798	0.03514	0.02323	0.0067
25% Percentile	0.08132	0.03608	0.02356	0.007538
Median	0.09264	0.05321	0.0267	0.01079
75% Percentile	0.1054	0.06996	0.03771	0.01532
Maximum	0.1092	0.07077	0.04065	0.01658
Mean	0.09312	0.05308	0.02932	0.01121
Std. Deviation	0.0128	0.01866	0.007929	0.004108
Std. Error of Mean	0.006401	0.00933	0.003964	0.002054
Lower 95% CI of mean	0.07275	0.02339	0.0167	0.004676
Upper 95% CI of mean	0.1135	0.08277	0.04194	0.01775
Sum	0.3725	0.2123	0.1173	0.04485

Tabel 21. Tes Mann-Whitney Darah yang tidak diberi ekstrak Normoksia dan Hipoksia 3 Hari

Table Analyzed	darah kontrol
Column B	h3 kontrol
vs.	vs.
Column A	normox kontrol
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,B	26 , 10
Mann-Whitney U	0
Difference between medians	
Median of column A	0.09264, n=4
Median of column B	0.05321, n=4
Difference: Actual	-0.03944
Difference: Hodges-Lehmann	-0.04039

Tabel 22. Tes Mann-Whitney Darah yang tidak diberi ekstrak Normoksia dan Hipoksia 7 Hari

Table Analyzed	darah kontrol
Column C	h7 kontrol
vs.	vs.
Column A	normox kontrol
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,C	26 , 10
Mann-Whitney U	0
Difference between medians	
Median of column A	0.09264, n=4
Median of column C	0.0267, n=4
Difference: Actual	-0.06594
Difference: Hodges-Lehmann	-0.06594

Tabel 23. Tes Mann-Whitney Darah yang tidak diberi ekstrak Normoksia dan Hipoksia 14 Hari

Table Analyzed	darah kontrol
Column D	h14 kontrol
vs.	vs.
Column A	normox kontrol
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,D	26 , 10
Mann-Whitney U	0
Difference between medians	
Median of column A	0.09264, n=4
Median of column D	0.01079, n=4
Difference: Actual	-0.08186
Difference: Hodges-Lehmann	-0.08186

Tabel 24. Statistik Kolom Jantung

Number of values	4	4
Minimum	0.0051	0.003067
25% Percentile	0.005164	0.003212
Median	0.007164	0.005726
75% Percentile	0.01387	0.01106
Maximum	0.0155	0.01215
Mean	0.008733	0.006667
Std. Deviation	0.004848	0.00422
Std. Error of Mean	0.002424	0.00211
Lower 95% CI of mean	0.001019	-4.871e-005
Upper 95% CI of mean	0.01645	0.01338
Sum	0.03493	0.02667

Tabel 25. Tes Mann-Whitney Jantung Normoksia

Table Analyzed	jantung wey
Column E	JNK
vs.	vs.
Column A	JNC
Mann Whitney test	
P value	0.2000
Exact or approximate P value?	Exact
P value summary	Ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,E	23 , 13
Mann-Whitney U	3
Difference between medians	
Median of column A	0.00903, n=4
Median of column E	0.007728, n=4
Difference: Actual	-0.001302
Difference: Hodges-Lehmann	-0.001195

Tabel 26. Mann-Whitney Jantung Hipoksia 3 Hari

Table Analyzed	jantung wey
Column F	J3K
vs.	vs.
Column B	J3C
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column B,F	26 , 10
Mann-Whitney U	0
Difference between medians	
Median of column B	0.01541, n=4
Median of column F	0.01259, n=4
Difference: Actual	-0.002826
Difference: Hodges-Lehmann	-0.002943

Tabel 27. Tes Mann-Whitney Jantung Hipoksia 7 Hari

Table Analyzed	jantung wey
Column G	J7K
vs.	vs.
Column C	J7C
Mann Whitney test	
P value	0.1143
Exact or approximate P value?	Exact
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
Sum of ranks in column C,G	24 , 12
Mann-Whitney U	2
Difference between medians	
Median of column C	0.005257, n=4
Median of column G	0.003996, n=4
Difference: Actual	-0.001262
Difference: Hodges-Lehmann	-0.001789

Tabel 28. Tes Mann-Whitney Jantung Hipoksia 14 Hari

Table Analyzed	jantung wey
Column H	J14K
vs.	vs.
Column D	J14C
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column D,H	26 , 10
Mann-Whitney U	0
Difference between medians	
Median of column D	0.004796, n=4
Median of column H	0.003118, n=4
Difference: Actual	-0.001678
Difference: Hodges-Lehmann	-0.001916

Tabel 29. Statistik Kolom Darah

Number of values	4	4
Minimum	0.01953	0.01121
25% Percentile	0.02361	0.01574
Median	0.04624	0.0412
75% Percentile	0.09212	0.08311
Maximum	0.1039	0.09312
Mean	0.05399	0.04668
Std. Deviation	0.0366	0.03539
Std. Error of Mean	0.0183	0.01769
Lower 95% CI of mean	-0.004254	-0.009625
Upper 95% CI of mean	0.1122	0.103
Sum	0.216	0.1867

Tabel 30. Uji Mann-Whitney Darah Normoksia

Table Analyzed	darah wey
Column E	DNK
vs.	vs.
Column A	DNC
Mann Whitney test	
P value	0.4857
Exact or approximate P value?	Exact
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
Sum of ranks in column A,E	21 , 15
Mann-Whitney U	5
Difference between medians	
Median of column A	0.1035, n=4
Median of column E	0.09264, n=4
Difference: Actual	-0.01083
Difference: Hodges-Lehmann	-0.01083

Tabel 31. Uji Mann-Whitney Darah Hipoksia 3 Hari

Table Analyzed	darah wey
Column F	D3K
vs.	vs.
Column B	D3C
Mann Whitney test	
P value	>0.9999
Exact or approximate P value?	Exact
P value summary	Ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
Sum of ranks in column B,F	18 , 18
Mann-Whitney U	8
Difference between medians	
Median of column B	0.05558, n=4
Median of column F	0.05321, n=4
Difference: Actual	-0.00237
Difference: Hodges-Lehmann	-0.004465

Tabel 32. Uji Mann-Whitney Darah Hipoksia 7 Hari

Table Analyzed	darah wey
Column G	D7K
vs.	vs.
Column C	D7C
Mann Whitney test	
P value	0.2000
Exact or approximate P value?	Exact
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
Sum of ranks in column C,G	23 , 13
Mann-Whitney U	3
Difference between medians	
Median of column C	0.03517, n=4
Median of column G	0.0267, n=4
Difference: Actual	-0.008465
Difference: Hodges-Lehmann	-0.008465

Tabel 33. Uji Mann-Whitney Darah Hipoksia 14 Hari

Table Analyzed	darah wey
Column H	D14K
vs.	vs.
Column D	D14C
Mann Whitney test	
P value	0.0286
Exact or approximate P value?	Exact
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
Sum of ranks in column D,H	26 , 10
Mann-Whitney U	0
Difference between medians	
Median of column D	0.01963, n=4
Median of column H	0.01079, n=4
Difference: Actual	-0.008845
Difference: Hodges-Lehmann	-0.008845

Tabel 34. Korelasi Aktivitas Spesifik Enzim Katalase Darah dan Jantung yang diberi Ekstrak

Pearson r	
r	0.4066
95% confidence interval	-0.9101 to 0.9834
R squared	0.1654
P value	
P (two-tailed)	0.5934
P value summary	Ns
Significant? (alpha = 0.05)	No
Number of XY Pairs	4

Tabel 35. Korelasi Aktivitas Spesifik Enzim Katalase Darah dan Jantung Kontrol

Pearson r	
r	0.4066
95% confidence interval	-0.9101 to 0.9834
R squared	0.1654
P value	
P (two-tailed)	0.5934
P value summary	Ns
Significant? (alpha = 0.05)	No
Number of XY Pairs	4

Tabel 36. Regresi Linear Korelasi Kelompok yang Diberi Ekstrak

Best-fit values \pm SE	
Slope	3.069 \pm 4.876
Y-intercept	0.02718 \pm 0.04724
X-intercept	-0.008854
1/slope	0.3258
95% Confidence Intervals	
Slope	-17.91 to 24.05
Y-intercept	-0.1761 to 0.2304
X-intercept	-infinity to +infinity
Goodness of Fit	
R square	0.1654
Sy.x	0.04093
Is slope significantly non-zero?	
F	0.3962
DFn, DFd	1, 2
P value	0.5934
Deviation from zero?	Not Significant
Equation	$Y = 3.069 * X + 0.02718$
Data	
Number of X values	4
Maximum number of Y replicates	1
Total number of values	4
Number of missing values	0

Tabel 37. Regresi Linear Korelasi Kelompok yang tidak diberi ekstrak

Best-fit values \pm SE	
Slope	5.016 \pm 4.751
Y-intercept	0.01324 \pm 0.03612
X-intercept	-0.00264
1/slope	0.1994
95% Confidence Intervals	
Slope	-15.42 to 25.46
Y-intercept	-0.1422 to 0.1687
X-intercept	-infinity to +infinity
Goodness of Fit	
R square	0.3579
Sy.x	0.03473
Is slope significantly non-zero?	
F	1.115
DFn, DFd	1, 2
P value	0.4018
Deviation from zero?	Not Significant
Equation	$Y = 5.016 * X + 0.01324$
Data	
Number of X values	4
Maximum number of Y replicates	1
Total number of values	4
Number of missing values	0

Lampiran-4 : Foto Alat dan Dokumentasi Selama Pengerjaan



Gambar 1. Blende



Gambar 2. Stirrer



Gambar 3. Tabung Gas



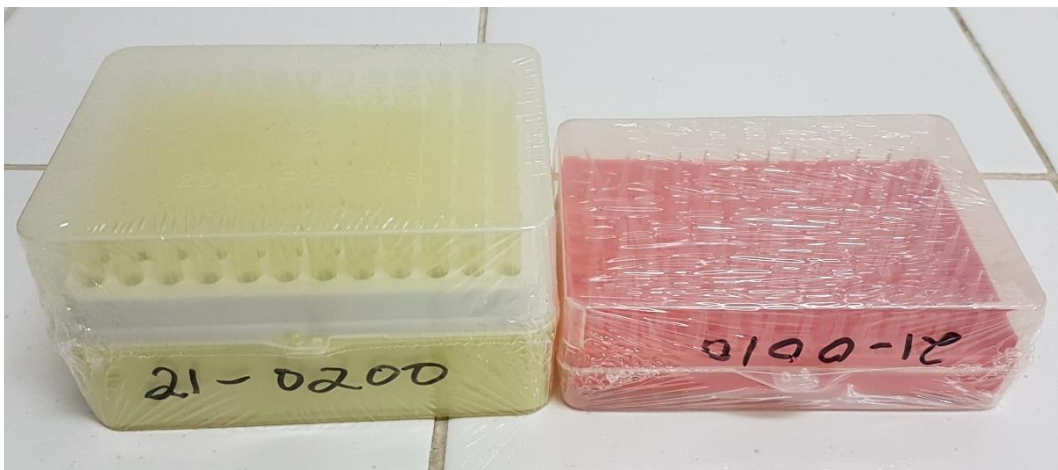
Gambar 4. Sungkup Hipoksia



Gambar 5. Sentrifuge



Gambar 6. Vortex



Gambar 7. Tips Mikropipet



Gambar 8. Mikropipet



Gambar 9. Mikroskop



Gambar 10. pH Meter



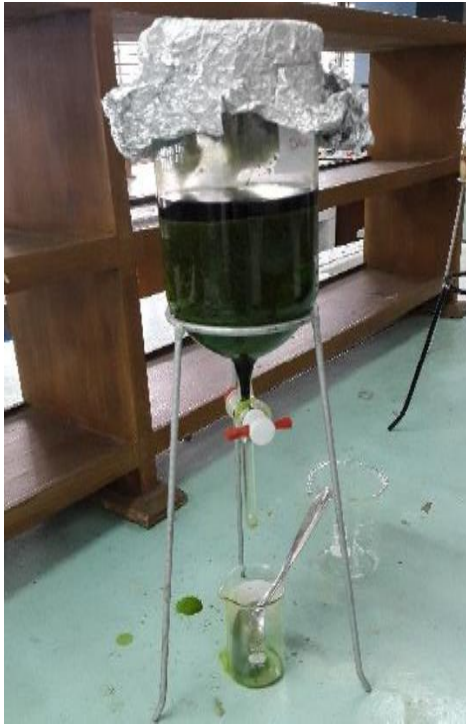
Gambar 11. Kuvet



Gambar 12. Timbangan.



Gambar. 13. Spectrophotometer Hitachi U-2.000.



Gambar 14. Meserasi Simplisia



Gambar 15. Evaporasi Filtrat Meserasi



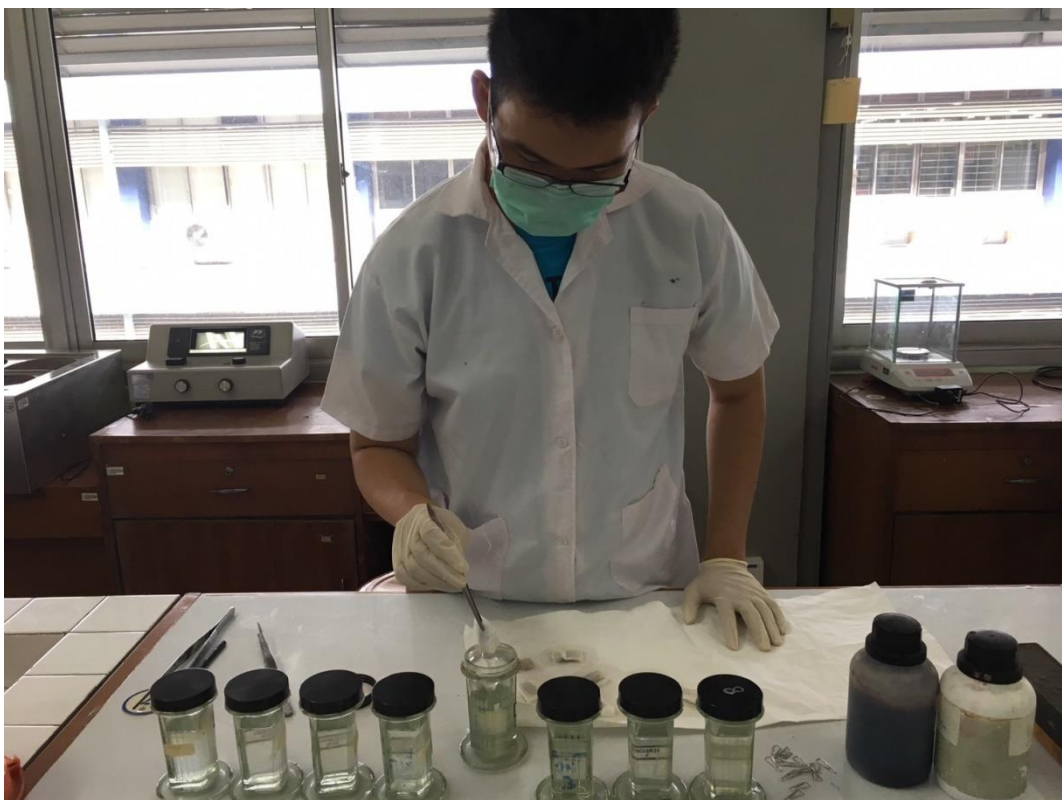
Gambar 16. Perlakuan Hipoksia



Gambar 17. Pengecekan Rutin



Gambar 18. Pengambilan organ



Gambar 19. Pembuatan Sediaan Histopatologi

DAFTAR RIWAYAT HIDUP

A. DATA PRIBADI

1. Nama : Alfred H. Alphanto
2. NIM : 405150114
3. Jenis Kelamin : Laki – laki
4. Tempat, Tanggal Lahir : Palembang, 20 September 1995
5. Agama : Katholik
6. Status : Belum Menikah
7. Pendidikan Terakhir : SMA
8. Alamat : Jl Beta III no 132 Cimone Permai, Tangerang.
9. No. Telepon : 081297890127
10. Email : alfredhartoyox@gmail.com

B. DATA PENDIDIKAN

1. 2003-2009 : SD Strada Santo Fransiskus
2. 2004-2009 : SD Strada Slamet Riyadi I
3. 2009-2012 : SMP Strada Slamet Riyadi
4. 2012-2015 : SMA Santa Ursula BSD
5. 2015-sekarang : Fakultas Kedokteran Universitas Tarumanagara