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LAMPIRAN 1 – Identifikasi Daun Berenuk



LEMBAGA ILMU PENGETAHUAN INDONESIA
(INDONESIAN INSTITUTE OF SCIENCES)
PUSAT PENELITIAN BIOLOGI
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Nomor : 1986/IPH.1.01/If.07/VIII/2017
Lampiran : -
Perihal : Hasil identifikasi/determinasi Tumbuhan

Cibinong, Agustus 2017

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. Jocy Setijo Rahajoe
NIP. 196706241993032004

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LAMPIRAN 2 – Lembar Persetujuan 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:

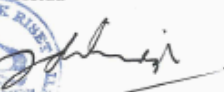
"PENGARUH PEMBERIAN EKSTRAK DAUN *CRESCENTIA CUJETE* TERHADAP STRES OKSIDATIF PADA JANTUNG DAN OTAK TIKUS *SPRAGUE DAWLEY* YANG DIINDUKSI HIPOKSIA"

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 3 – Dokumentasi Daun Berenuk



Daun berenuk yang baru dipetik



Pohon berenuk di Mekarsari

LAMPIRAN 4 – Dokumentasi Pencekohan Ektrak



Alat cekok



Pencekohan ekstrak daun berenuk

LAMPIRAN 5 – Dokumentasi di perlengkapan di Laboratorium



Chamber hypoxia, Soda lime, Tabung gas



Mikropipet



Vortex



Spektrofotometer Uv-Vis

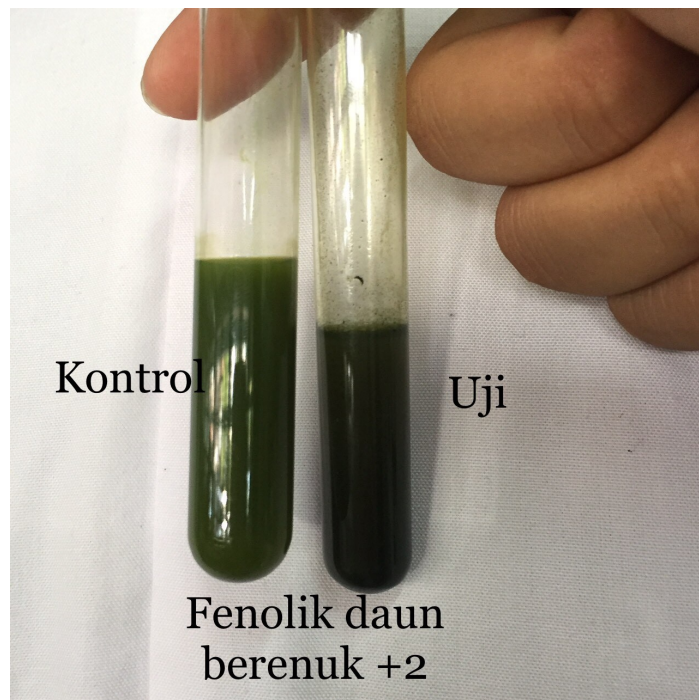


Centrifuge

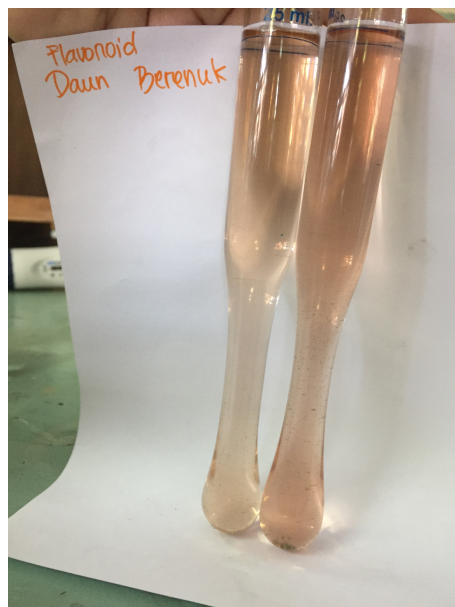


Tissue grinder

LAMPIRAN 6 – Dokumentasi Uji Fitokimia

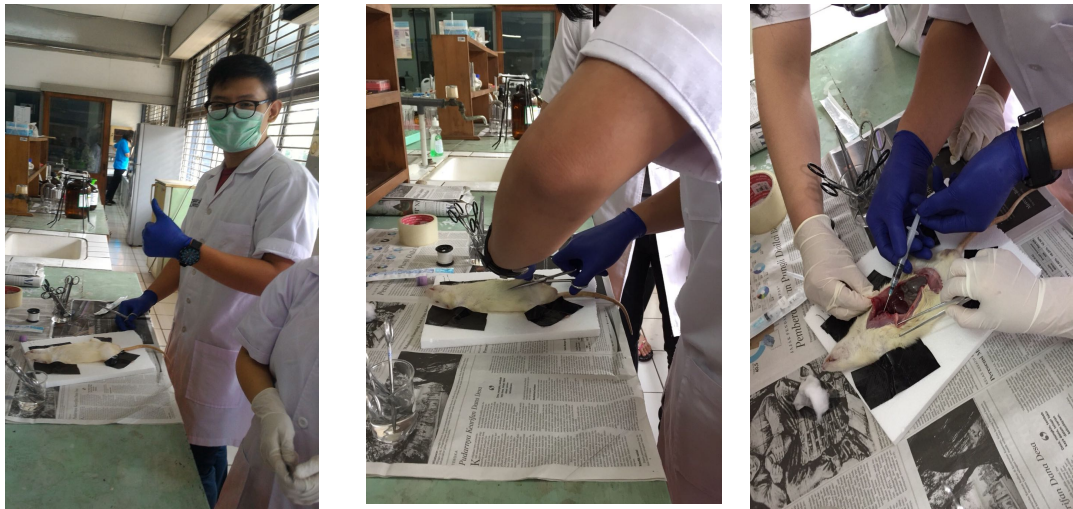


Uji Fenolik



Uji Flavonoid

LAMPIRAN 7 – Dokumentasi Pengerjaan di Laboboratorium



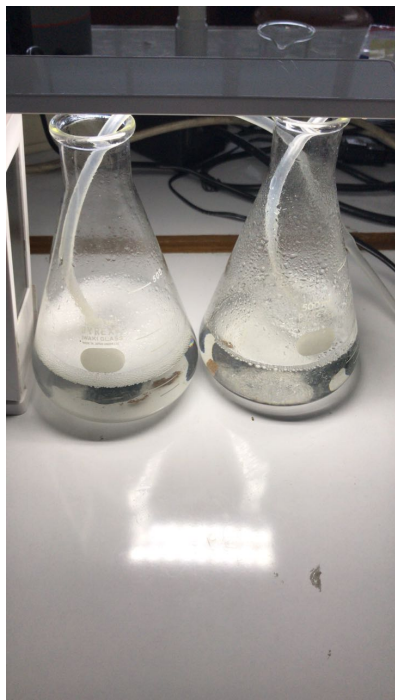
Pengambilan organ paru dan darah tikus



Pembuatan blok parafin



Pemotongan tipis blok parafin



Telur Udang yang di dalam air laut



Darah Tikut di dalam tabung EDTA

LAMPIRAN 8 – Hasil Uji Mann-Whitney

Tabel 8.1 Perbandingan darah kontrol hipoksia 3 hari dengan normoksia

Table Analyzed	Darah Kontrol
Column B	3 Hari
vs.	vs,
Column A	Normoksia
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	7,483, n=4
Median of column B	2,335, n=4
Difference: Actual	-5,148
Difference: Hodges-Lehmann	-5,148

Tabel 8.2 Perbandingan darah kontrol hipoksia 7 hari dengan normoksia

Table Analyzed	Darah Kontrol
Column C	7 Hari
vs.	vs,
Column A	Normoksia
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	7,483, n=4
Median of column C	1,932, n=4
Difference: Actual	-5,551
Difference: Hodges-Lehmann	-5,509

Tabel 8.3 Perbandingan darah kontrol hipoksia 14 hari dengan normoksia

Table Analyzed	Darah Kontrol
Column D	14 Hari
vs.	vs,
Column A	Normoksia
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	7,483, n=4
Median of column D	1,72, n=4
Difference: Actual	-5,763
Difference: Hodges-Lehmann	-5,72

Tabel 8.4 Perbandingan darah uji hipoksia 3 hari dengan normoksia

Table Analyzed	Darah Berenuk
Column B	3 Hari
vs.	vs,
Column A	Normoksia
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	8,119, n=4
Median of column B	3,5, n=4
Difference: Actual	-4,619
Difference: Hodges-Lehmann	-4,534

Tabel 8.5 Perbandingan darah uji hipoksia 7 hari dengan normoksia

Table Analyzed	Darah Berenuk
Column C	7 Hari
vs.	vs,
Column A	Normoksia
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	8,119, n=4
Median of column C	2,462, n=4
Difference: Actual	-5,657
Difference: Hodges-Lehmann	-5,509

Tabel 8.6 Perbandingan darah uji hipoksia 14 hari dengan normoksia

Table Analyzed	Darah Berenuk
Column D	14 Hari
vs.	vs,
Column A	Normoksia
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	8,119, n=4
Median of column D	2,017, n=4
Difference: Actual	-6,102
Difference: Hodges-Lehmann	-6,102

Tabel 8.7 Perbandingan paru-paru kontrol hipoksia 3 hari dengan normoksia

Table Analyzed	Paru-Paru Kontrol
Column B	3 Hari
vs.	vs,
Column A	Normoksia
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	2,356, n=4
Median of column B	2,102, n=4
Difference: Actual	-0,2543
Difference: Hodges-Lehmann	-0,2119

Tabel 8.8 Perbandingan paru-paru kontrol hipoksia 7 hari dengan normoksia

Table Analyzed	Paru-Paru Kontrol
Column C	7 Hari
vs.	vs,
Column A	Normoksia
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	2,356, n=4
Median of column C	1,911, n=4
Difference: Actual	-0,4449
Difference: Hodges-Lehmann	-0,4237

Tabel 8.9 Perbandingan paru-paru kontrol hipoksia 14 hari dengan normoksia

Table Analyzed	Paru-Paru Kontrol
Column D	14 Hari
vs.	vs,
Column A	Normoksia
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	2,356, n=4
Median of column D	1,636, n=4
Difference: Actual	-0,7204
Difference: Hodges-Lehmann	-0,7416

Tabel 8.10 Perbandingan paru-paru uji hipoksia 3 hari dengan normoksia

Table Analyzed	Paru-Paru Berenuk
Column B	3 Hari
vs.	vs,
Column A	Normoksia
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	2,589, n=4
Median of column B	2,42, n=4
Difference: Actual	-0,1695
Difference: Hodges-Lehmann	-0,1695

Tabel 8.11 Perbandingan paru-paru uji hipoksia 7 hari dengan normoksia

Table Analyzed	Paru-Paru Berenuk
Column C	7 Hari
vs.	vs,
Column A	Normoksia
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	2,589, n=4
Median of column C	2,208, n=4
Difference: Actual	-0,3814
Difference: Hodges-Lehmann	-0,3814

Tabel 8.12 Perbandingan paru-paru uji hipoksia 14 hari dengan normoksia

Table Analyzed	Paru-Paru Berenuk
Column D	14 Hari
vs.	vs,
Column A	Normoksia
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	2,589, n=4
Median of column D	1,932, n=4
Difference: Actual	-0,6568
Difference: Hodges-Lehmann	-0,6568

Tabel 8.13 Perbandingan normoksia paru-paru kontrol dan uji

Table Analyzed	Perbandingan Organ Paru Kontrol dan Uji
Column E	Normoksia Uji
vs.	vs,
Column A	Normoksia 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,E	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column A	2,356, n=4
Median of column E	2,589, n=4
Difference: Actual	0,2331
Difference: Hodges-Lehmann	0,2542

Tabel 8.14 Perbandingan hipoksia 3 hari paru-paru kontrol dan uji

Table Analyzed	Perbandingan Organ Paru Kontrol dan Uji
Column F	3 Hari Uji
vs.	vs,
Column B	3 Hari 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 B,F	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column B	2,102, n=4
Median of column F	2,42, n=4
Difference: Actual	0,3178
Difference: Hodges-Lehmann	0,3178

Tabel 8.15 Perbandingan hipoksia 7 hari paru-paru kontrol dan uji

Table Analyzed	Perbandingan Organ Paru Kontrol dan Uji
Column G	7 Hari Uji
vs.	vs,
Column C	7 Hari 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 C,G	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column C	1,911, n=4
Median of column G	2,208, n=4
Difference: Actual	0,2966
Difference: Hodges-Lehmann	0,2754

Tabel 8.16 Perbandingan hipoksia 14 hari paru-paru kontrol dan uji

Table Analyzed	Perbandingan Organ Paru Kontrol dan Uji
Column H	14 Hari Uji
vs.	vs,
Column D	14 Hari 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 D,H	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column D	1,636, n=4
Median of column H	1,932, n=4
Difference: Actual	0,2966
Difference: Hodges-Lehmann	0,2966

Tabel 8.17 Perbandingan normoksia darah kontrol dan uji

Table Analyzed	Perbandingan Darah Kontrol dan Uji
Column E	Normoksia Uji
vs.	vs,
Column A	Normoksia Kontrol
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	13 , 23
Mann-Whitney U	3
Difference between medians	
Median of column A	7,483, n=4
Median of column E	8,119, n=4
Difference: Actual	0,6356
Difference: Hodges-Lehmann	0,6356

Tabel 8.18 Perbandingan hipoksia 3 hari darah kontrol dan uji

Table Analyzed	Perbandingan Darah Kontrol dan Uji
Column F	3 Hari Uji
vs.	vs,
Column B	3 Hari 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 B,F	10 , 26
Mann-Whitney U	0
Difference between medians	
Median of column B	2,335, n=4
Median of column F	3,5, n=4
Difference: Actual	1,165
Difference: Hodges-Lehmann	1,165

Tabel 8.19 Perbandingan hipoksia 7 hari darah kontrol dan uji

Table Analyzed	Perbandingan Darah Kontrol dan Uji
Column G	7 Hari Uji
vs.	vs,
Column C	7 Hari Kontrol
Mann Whitney test	
P value	0,0857
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	11,5 , 24,5
Mann-Whitney U	1,5
Difference between medians	
Median of column C	1,932, n=4
Median of column G	2,462, n=4
Difference: Actual	0,5297
Difference: Hodges-Lehmann	0,4661

Tabel 8.20 Perbandingan hipoksia 14 hari darah kontrol dan uji

Table Analyzed	Perbandingan Darah Kontrol dan Uji
Column H	14 Hari Uji
vs.	vs,
Column D	14 Hari Kontrol
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 D,H	13 , 23
Mann-Whitney U	3
Difference between medians	
Median of column D	1,72, n=4
Median of column H	2,017, n=4
Difference: Actual	0,2967
Difference: Hodges-Lehmann	0,2119

LAMPIRAN 9 – Hasil Uji Pearson

Tabel 9.1 Uji Person darah dan paru-paru kontrol

Pearson r	
r	0,7958
95% confidence interval	-0,7029 to 0,9955
R squared	0,6333
P value	
P (two-tailed)	0,2042
P value summary	ns
Significant? (alpha = 0.05)	No
Number of XY Pairs	4

Tabel 9.1 Uji Person darah dan paru-paru uji

Pearson r	
r	0,8609
95% confidence interval	-0,5804 to 0,997
R squared	0,7412
P value	
P (two-tailed)	0,1391
P value summary	ns
Significant? (alpha = 0.05)	No
Number of XY Pairs	4

LAMPIRAN 10 – Tabel Hasil Absorbansi dan Kadar GSH Organ Paru

Tabel 10.1 Hasil absorbansi dan kadar GSH paru-paru normoksia kontrol

Normoksia Kontrol	1	2	Rata-Rata	KADAR GSH
1	0,030	0,032	0,031	2,2711
2	0,032	0,036	0,034	2,3983
3	0,033	0,035	0,034	2,3983
4	0,033	0,031	0,032	2,3135
Rata-Rata			0,03275	2,3453

Tabel 10.2 Hasil absorbansi dan kadar GSH paru-paru normoksia uji

Normoksia Uji	1	2	Rata-Rata	KADAR GSH
1	0,039	0,035	0,037	2,5254
2	0,039	0,041	0,040	2,6525
3	0,037	0,039	0,038	2,5678
4	0,038	0,040	0,039	2,6102
Rata-Rata			0,0385	2,5890

Tabel 10.3 Hasil absorbansi dan kadar GSH paru-paru hipoksia 3 hari kontrol

Hipoksia 3 Hari Kontrol	1	2	Rata-Rata	KADAR GSH
1	0,028	0,026	0,027	2,1017
2	0,031	0,029	0,030	2,2288
3	0,028	0,024	0,026	2,0593
4	0,026	0,028	0,027	2,1017
Rata-Rata			0,0275	2,1229

Tabel 10.4 Hasil absorbansi dan kadar GSH paru-paru hipoksia 3 hari uji

Hipoksia 3 Hari Uji	1	2	Rata-Rata	KADAR GSH
1	0,036	0,034	0,035	2,4407
2	0,033	0,035	0,034	2,3983
3	0,036	0,032	0,034	2,3983
4	0,035	0,037	0,036	2,4830
Rata-Rata			0,03475	2,4301

Tabel 10.5 Hasil absorbansi dan kadar GSH paru-paru hipoksia 7 hari kontrol

Hipoksia 7 Hari Kontrol	1	2	Rata-Rata	KADAR GSH
1	0,025	0,023	0,024	1,9746
2	0,024	0,028	0,026	2,0593
3	0,019	0,021	0,020	1,8051
4	0,020	0,022	0,021	1,8475
Rata-Rata			0,02275	1,9216

Tabel 10.6 Hasil absorbansi dan kadar GSH paru-paru hipoksia 7 hari uji

Hipoksia 7 Hari Uji	1	2	Rata-Rata	KADAR GSH
1	0,027	0,029	0,028	2,1441
2	0,031	0,029	0,030	2,2288
3	0,028	0,032	0,030	2,2288
4	0,030	0,028	0,029	2,1864
Rata-Rata			0,02925	2,1970

Tabel 10.7 Hasil absorbansi dan kadar GSH paru-paru hipoksia 14 hari kontrol

Hipoksia 14 Hari Kontrol	1	2	Rata-Rata	KADAR GSH
1	0,015	0,017	0,016	1,6356
2	0,017	0,015	0,016	1,6356
3	0,016	0,014	0,015	1,5932
4	0,015	0,017	0,016	1,6356
Rata-Rata			0,01575	1,6250

Tabel 10.8 Hasil absorbansi dan kadar GSH paru-paru hipoksia 14 hari uji

Hipoksia 14 Hari Uji	1	2	Rata-Rata	KADAR GSH
1	0,021	0,023	0,022	1,8898
2	0,024	0,022	0,023	1,9322
3	0,023	0,025	0,024	1,9746
4	0,022	0,024	0,023	1,9322
Rata-Rata			0,023	1,9322

LAMPIRAN 11– Tabel Hasil Absorbansi dan Kadar GSH Darah

Tabel 11.1 Hasil absorbansi dan kadar GSH darah normoksia kontrol

Normoksia Kontrol	1	2	Rata-Rata	KADAR GSH
1	0,145	0,149	0,147	7,1864
2	0,153	0,157	0,155	7,5254
3	0,162	0,158	0,160	7,7373
4	0,151	0,155	0,153	7,4407
Rata-Rata			0,15375	7,4725

Tabel 11.2 Hasil absorbansi dan kadar GSH darah normoksia uji

Normoksia Uji	1	2	Rata-Rata	KADAR GSH
1	0,182	0,184	0,183	8,7119
2	0,165	0,169	0,167	8,0339
3	0,154	0,150	0,152	7,3983
4	0,172	0,170	0,171	8,2034
Rata-Rata			0,16825	8,0869

Tabel 11.3 Hasil absorbansi dan kadar GSH darah hipoksia 3 hari kontrol

Hipoksia 3 Hari Kontrol	1	2	Rata-Rata	KADAR GSH
1	0,030	0,034	0,032	2,3136
2	0,029	0,033	0,031	2,2712
3	0,033	0,037	0,035	2,4407
4	0,032	0,034	0,033	2,3559
Rata-Rata			0,03275	2,3453

Tabel 11.4 Hasil absorbansi dan kadar GSH darah hipoksia 3 hari uji

Hipoksia 3 Hari Uji	1	2	Rata-Rata	KADAR GSH
1	0,086	0,088	0,087	4,6441
2	0,062	0,058	0,060	3,5000
3	0,053	0,055	0,054	3,2458
4	0,058	0,062	0,060	3,5000
Rata-Rata			0,06525	3,7225

Tabel 11.5 Hasil absorbansi dan kadar GSH darah hipoksia 7 hari kontrol

Hipoksia 7 Hari Kontrol	1	2	Rata-Rata	KADAR GSH
1	0,031	0,029	0,03	2,2288
2	0,023	0,027	0,025	2,0169
3	0,023	0,019	0,021	1,8475
4	0,017	0,021	0,019	1,7627
Rata-Rata			0,02375	1,9640

Tabel 11.6 Hasil absorbansi dan kadar GSH darah hipoksia 7 hari uji

Hipoksia 7 Hari Uji	1	2	Rata-Rata	KADAR GSH
1	0,027	0,031	0,029	2,1864
2	0,040	0,042	0,041	2,6949
3	0,032	0,028	0,03	2,2288
4	0,051	0,055	0,053	3,2034
Rata-Rata			0,03825	2,5784

Tabel 11.7 Hasil absorbansi dan kadar GSH darah hipoksia 14 hari kontrol

Hipoksia 14 Hari Kontrol	1	2	Rata-Rata	KADAR GSH
1	0,024	0,028	0,026	2,0593
2	0,020	0,016	0,018	1,7203
3	0,014	0,018	0,016	1,6356
4	0,020	0,016	0,018	1,7203
Rata-Rata			0,0195	1,7839

Tabel 11.8 Hasil absorbansi dan kadar GSH darah hipoksia 14 hari uji

Hipoksia 14 Hari Uji	1	2	Rata-Rata	KADAR GSH
1	0,029	0,025	0,027	2,1017
2	0,028	0,030	0,029	2,1864
3	0,021	0,025	0,023	1,9322
4	0,020	0,016	0,018	1,7203
Rata-Rata			0,02425	1,9852

LAMPIRAN 12 – Daftar Riwayat Hidup

DAFTAR RIWAYAT HIDUP

A. Data Pribadi

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- 2012 – 2013 : Studienkolleg der Goethe Univesität, Frankfurt am Main, Jerman
- 2015 – Sekarang : Fakultas Kedokteran Universitas Tarumanagara, Jakarta, Indonesia