


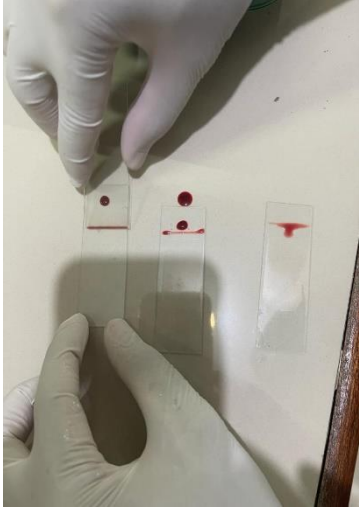


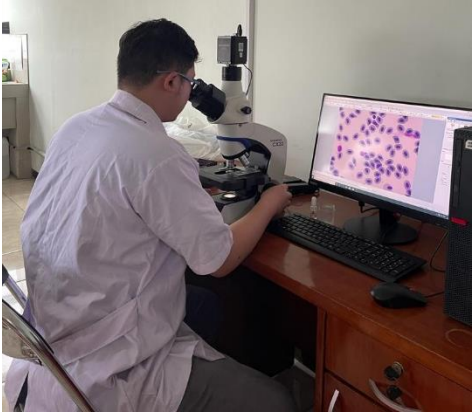


LAMPIRAN


Lampiran 1 : Dokumentasi Penelitian

No.	Dokumentasi	Keterangan
1.		<p>Induksi <i>A. salmonicida</i></p>
2.		<p>Pengambilan Sampel Darah</p>
3.		<p>Sampel Darah</p>

4.		Preparat Apus Darah
5.		Pewarnaan Preparat Apus Darah
6.		Ikan terjangkit Furunkulosis

7.		Perhitungan Hasil
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Lampiran 2 : Berkas Penelitian



UNIVERSITAS MUHAMMADIYAH SIDOARJO
FAKULTAS ILMU KESEHATAN
 PROGRAM STUDI : • PENDIDIKAN PROFESI BIDAN (S1) • TEKNOLOGI LABORATORIUM MEDIS (D4)
 • MANAJEMEN INFORMASI KESEHATAN (D4) • FISIOTERAPI (D3)

SURAT KETERANGAN PENELITIAN

Assalamu'alaikum Wr. Wb.

Bersama dengan ini kami menerangkan bahwa Saudara/Saudari berikut:

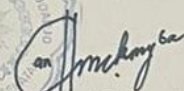
Nama Peneliti	: James Marchiano Suhargo
Supervisi	: Dr. drh. Siti Gusti Ningrum
Status Peneliti	: Mahasiswa S1 Kedokteran Hewan
Asal Instansi	: Fakultas Kedokteran Hewan Universitas Wijaya Kusuma Surabaya
Laboran Pendamping	: Novi Dwi Kusuma, S.Si., Amd.A.K.

telah melaksanakan penelitian dan menggunakan fasilitas penelitian untuk **ekstraksi Bunga Kamboja** di Laboratorium Kimia Terapan Fakultas Ilmu Kesehatan, Universitas Muhammadiyah Sidoarjo selama 2 minggu, terhitung mulai tanggal 14 Februari s/d 28 Februari 2023.

Demikian atas perhatiannya disampaikan terima kasih.

Wassalamu'alaikum Wr. Wb.

Sidoarjo, 1 Maret 2023
 Mengetahui,
 Penanggung Jawab Lab.
 Kimia Terapan



Andika Aliviameita, S.ST., M.Si.

Catatan/saran:

1. Surat Keterangan ini hanya diperuntukkan peneliti yang bersangkutan
2. Jika ada hal lain terkait silahkan menghubungi kami



**LABORATORIUM FARMAKOLOGI, FARMASI &
TERAPEUTIKA VETERINER
FAKULTAS KEDOKTERAN HEWAN
UNIVERSITAS WIJAYA KUSUMA SURABAYA**

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Website : www.uwks.ac.id ; E-Mail : fkhwks@gmail.com ; fkhwks@uwks.ac.id



SURAT KETERANGAN PENELITIAN

No. 16/Lab.FF/UWKS/III/2023

Yang bertanda tangan di bawah ini menyatakan bahwa:

1. Nama Peneliti : James Marchiano Suhargo
2. Asal Instansi : S1 Kedokteran Hewan, UWKS
3. Tanggal Mulai Penelitian : 1 Maret 2023
4. Tanggal Akhir Penelitian : 14 Maret 2023
5. Jenis Penelitian : Eksperimental untuk efikasi ekstrak bunga kamboja terhadap infeksi furunkulosis pada ikan mas oranda (*Carassius auratus auratus*)

Telah melakukan penelitian dengan menggunakan seluruh fasilitas (tempat, alat, dan bahan) yang tersedia di Laboratorium Farmakologi, Farmasi, dan Terapeutika Veteriner, Fakultas Kedokteran Hewan, Universitas Wijaya Kusuma Surabaya.

Demikian surat keterangan ini dibuat agar dapat digunakan sebagaimana mestinya.

Surabaya, 30 Maret 2023

Dosen Dept. Farmakologi

Dr. H.H. Yos Adi Prakoso, M.Sc.
NIR 18802-ET

SERTIFIKAT

No. 38/II/Plagiasi/FKH/V/2023

Verifikator Plagiasi Fakultas Kedokteran Hewan, Universitas Wijaya Kusuma Surabaya setelah melakukan uji plagiasi dengan *software similarity check* (by Turnitin) dengan ini menyatakan bahwa:

Judul : Efikasi Kuerectin Derivat Ekstrak Bunga Kamboja (*Adenium obesum*) terhadap total Heterofil, Limfosit dan Monosit Ikan Mas Oranda (*Carassius auratus auratus*) Model Furunkulosis
Nama Mahasiswa : James Marchiano Suhargo
NPM : 19820009

Memperoleh hasil uji similaritas sebesar **29% (dua puluh sembilan persen)** dan dinyatakan lolos dengan sesuai standar similaritas (<30%) yang digunakan di Fakultas Kedokteran Hewan, Universitas Wijaya Kusuma Surabaya*.
**Hasil sebagaimana dimaksud terlampir*

Surabaya, 27 Mei 2023
Verifikator Plagiasi

Sekretaris

Administrator



Dr. Yos. Adi Prakoso, drh., M.Sc. Junianto Wika Adi Pratama, drh., M.Si. Hana Cipka P. Wardhani, drh., M.Vet.

*Sertifikat ini hanya berlaku di internal FKH UWKS dan digunakan untuk mendaftar ujian skripsi

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Lampiran 4: Hasil Analisis data

Oneway

Oneway

[DataSet0]

Descriptives

		N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
						Lower Bound	Upper Bound		
Limfosit	sehat	10	78.2000	1.61933	.51208	77.0416	79.3584	76.00	80.00
	sakit	10	65.4000	3.86437	1.22202	62.6356	68.1644	59.00	71.00
	ciprofloxacin 55 ppm	10	71.4000	1.77639	.56174	70.1292	72.6708	69.00	74.00
	dosis 1 (1000 ppm)	10	72.2000	1.31656	.41633	71.2582	73.1418	69.00	74.00
	dosis 2 (2000 ppm)	10	70.3000	1.49443	.47258	69.2309	71.3691	67.00	72.00
	dosis 3 (4000 ppm)	10	75.7000	1.70294	.53852	74.4818	76.9182	73.00	79.00
	Total	60	72.2000	4.57628	.59080	71.0178	73.3822	59.00	80.00
Monosit	sehat	10	5.9000	.73786	.23333	5.3722	6.4278	5.00	7.00
	sakit	10	7.9000	1.72884	.54671	6.6633	9.1367	6.00	10.00
	ciprofloxacin 55 ppm	10	6.7000	.48305	.15275	6.3544	7.0456	6.00	7.00
	dosis 1 (1000 ppm)	10	6.8000	1.13529	.35901	5.9879	7.6121	6.00	9.00
	dosis 2 (2000 ppm)	10	7.1000	1.10050	.34801	6.3127	7.8873	6.00	9.00
	dosis 3 (4000 ppm)	10	6.4000	.69921	.22111	5.8998	6.9002	5.00	7.00
	Total	60	6.8000	1.19036	.15367	6.4925	7.1075	5.00	10.00
Heterofil	sehat	10	15.9000	1.59513	.50442	14.7589	17.0411	14.00	18.00
	sakit	10	26.7000	2.83039	.89505	24.6753	28.7247	23.00	33.00
	ciprofloxacin 55 ppm	10	21.9000	1.66333	.52599	20.7101	23.0899	19.00	24.00
	dosis 1 (1000 ppm)	10	21.0000	1.05409	.33333	20.2459	21.7541	19.00	22.00
	dosis 2 (2000 ppm)	10	22.6000	1.34990	.42687	21.6343	23.5657	21.00	25.00
	dosis 3 (4000 ppm)	10	17.9000	1.44914	.45826	16.8633	18.9367	15.00	20.00
	Total	60	21.0000	3.86203	.49859	20.0023	21.9977	14.00	33.00

Tes Homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Limfosit	Based on Mean	5.569	5	54	.000
	Based on Median	5.073	5	54	.001
	Based on Median and with adjusted df	5.073	5	34.743	.001
	Based on trimmed mean	5.537	5	54	.000
Monosit	Based on Mean	7.418	5	54	.000
	Based on Median	3.369	5	54	.010
	Based on Median and with adjusted df	3.369	5	32.302	.015
	Based on trimmed mean	7.121	5	54	.000
Heterofil	Based on Mean	1.905	5	54	.109
	Based on Median	1.643	5	54	.164
	Based on Median and with adjusted df	1.643	5	35.051	.174
	Based on trimmed mean	1.862	5	54	.116

Oneway ANOVA Heterofil

55

Oneway					
ANOVA					
Heterofil					
	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	714.800	5	142.960	46.730	.000
Within Groups	165.200	54	3.059		
Total	880.000	59			

Post Hoc Test Heterofil

Multiple Comparisons						
Dependent Variable: Heterofil						
LSD						
(I) Kelompok	(J) Kelompok	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
sehat	sakit	-10.80000*	.78221	.000	-12.3682	-9.2318
	ciprofloxacin 55 ppm	-6.00000*	.78221	.000	-7.5682	-4.4318
	dosis 1 (1000 ppm)	-5.10000*	.78221	.000	-6.6682	-3.5318
	dosis 2 (2000 ppm)	-6.70000*	.78221	.000	-8.2682	-5.1318
	dosis 3 (4000 ppm)	-2.00000*	.78221	.013	-3.5682	-.4318
sakit	sehat	10.80000*	.78221	.000	9.2318	12.3682
	ciprofloxacin 55 ppm	4.80000*	.78221	.000	3.2318	6.3682
	dosis 1 (1000 ppm)	5.70000*	.78221	.000	4.1318	7.2682
	dosis 2 (2000 ppm)	4.10000*	.78221	.000	2.5318	5.6682
	dosis 3 (4000 ppm)	8.80000*	.78221	.000	7.2318	10.3682
ciprofloxacin 55 ppm	sehat	6.00000*	.78221	.000	4.4318	7.5682
	sakit	-4.80000*	.78221	.000	-6.3682	-3.2318
	dosis 1 (1000 ppm)	.90000	.78221	.255	-.6682	2.4682
	dosis 2 (2000 ppm)	-.70000	.78221	.375	-2.2682	.8682
	dosis 3 (4000 ppm)	4.00000*	.78221	.000	2.4318	5.5682
dosis 1 (1000 ppm)	sehat	5.10000*	.78221	.000	3.5318	6.6682
	sakit	-5.70000*	.78221	.000	-7.2682	-4.1318
	ciprofloxacin 55 ppm	-.90000	.78221	.255	-2.4682	.6682
	dosis 2 (2000 ppm)	-1.60000*	.78221	.046	-3.1682	-.0318
	dosis 3 (4000 ppm)	3.10000*	.78221	.000	1.5318	4.6682
dosis 2 (2000 ppm)	sehat	6.70000*	.78221	.000	5.1318	8.2682
	sakit	-4.10000*	.78221	.000	-5.6682	-2.5318
	ciprofloxacin 55 ppm	.70000	.78221	.375	-.8682	2.2682
	dosis 1 (1000 ppm)	1.60000*	.78221	.046	.0318	3.1682
	dosis 3 (4000 ppm)	4.70000*	.78221	.000	3.1318	6.2682
dosis 3 (4000 ppm)	sehat	2.00000*	.78221	.013	.4318	3.5682
	sakit	-8.80000*	.78221	.000	-10.3682	-7.2318
	ciprofloxacin 55 ppm	-4.00000*	.78221	.000	-5.5682	-2.4318
	dosis 1 (1000 ppm)	-3.10000*	.78221	.000	-4.6682	-1.5318
	dosis 2 (2000 ppm)	-4.70000*	.78221	.000	-6.2682	-3.1318

Tes Non Parametrik

Kruskal-Wallis Monosit dan Limfosit

	Limfosit	Monosit
Kruskal-Wallis H	48.844	11.851
df	5	5
Asymp. Sig.	.000	.037

a. Kruskal Wallis Test
b. Grouping Variable: Kelompok

Hasil Tes Mann-Whitney Monosit

	Ranks			Sum of Ranks
	Kelompok	N	Mean Rank	
Monosit	sehat	10	7.30	73.00
	sakit	10	13.70	137.00
Total		20		
	Monosit			
Mann-Whitney U	18.000			
Wilcoxon W	73.000			
Z	-2.547			
Asymp. Sig. (2-tailed)	.011			
Exact Sig. [2*(1-tailed Sig.)]	.015 ^b			

	Ranks			Sum of Ranks
	Kelompok	N	Mean Rank	
Monosit	sehat	10	7.55	75.50
	ciprofloxacin 55 ppm	10	13.45	134.50
Total		20		
	Monosit			
Mann-Whitney U	20.500			
Wilcoxon W	75.500			
Z	-2.428			
Asymp. Sig. (2-tailed)	.015			
Exact Sig. [2*(1-tailed Sig.)]	.023 ^b			

NPar Tests

Mann-Whitney Test

		Ranks		
Kelompok		N	Mean Rank	Sum of Ranks
Monosit	sehat	10	8.30	83.00
	dosis 1 (1000 ppm)	10	12.70	127.00
Total		20		

Test Statistics^a

		Monosit
Mann-Whitney U		28.000
Wilcoxon W		83.000
Z		-1.828
Asymp. Sig. (2-tailed)		.068
Exact Sig. [2*(1-tailed Sig.)]		.105 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests

Mann-Whitney Test

		Ranks		
Kelompok		N	Mean Rank	Sum of Ranks
Monosit	sehat	10	7.50	75.00
	dosis 2 (2000 ppm)	10	13.50	135.00
Total		20		

Test Statistics^a

		Monosit
Mann-Whitney U		20.000
Wilcoxon W		75.000
Z		-2.395
Asymp. Sig. (2-tailed)		.017
Exact Sig. [2*(1-tailed Sig.)]		.023 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests

Mann-Whitney Test

		Ranks		
Kelompok		N	Mean Rank	Sum of Ranks
Monosit	sehat	10	8.65	86.50
	dosis 3 (4000 ppm)	10	12.35	123.50
Total		20		

Test Statistics^a

		Monosit
Mann-Whitney U		31.500
Wilcoxon W		86.500
Z		-1.508
Asymp. Sig. (2-tailed)		.132
Exact Sig. [2*(1-tailed Sig.)]		.165 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

Mann-Whitney Test

		Ranks		
Kelompok		N	Mean Rank	Sum of Ranks
Monosit	sakit	10	12.10	121.00
	ciprofloxacin 55 ppm	10	8.90	89.00
Total		20		

Test Statistics^a

		Monosit
Mann-Whitney U		34.000
Wilcoxon W		89.000
Z		-1.266
Asymp. Sig. (2-tailed)		.205
Exact Sig. [2*(1-tailed Sig.)]		.247 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Monosit	sakit	10	12.35	123.50
	dosis 1 (1000 ppm)	10	8.65	86.50
	Total	20		

Test Statistics^a

	Monosit
Mann-Whitney U	31.500
Wilcoxon W	86.500
Z	-1.504
Asymp. Sig. (2-tailed)	.133
Exact Sig. [2*(1-tailed Sig.)]	.165 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Monosit	sakit	10	11.90	119.00
	dosis 2 (2000 ppm)	10	9.10	91.00
	Total	20		

Test Statistics^a

	Monosit
Mann-Whitney U	36.000
Wilcoxon W	91.000
Z	-1.103
Asymp. Sig. (2-tailed)	.270
Exact Sig. [2*(1-tailed Sig.)]	.315 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Monosit	sakit	10	12.70	127.00
	dosis 3 (4000 ppm)	10	8.30	83.00
Total		20		

Test Statistics^a

	Monosit
Mann-Whitney U	28.000
Wilcoxon W	83.000
Z	-1.736
Asymp. Sig. (2-tailed)	.083
Exact Sig. [2*(1-tailed Sig.)]	.105 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Monosit	ciprofloxacin 55 ppm	10	10.95	109.50
	dosis 1 (1000 ppm)	10	10.05	100.50
Total		20		

Test Statistics^a

	Monosit
Mann-Whitney U	45.500
Wilcoxon W	100.500
Z	-.370
Asymp. Sig. (2-tailed)	.711
Exact Sig. [2*(1-tailed Sig.)]	.739 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Monosit	ciprofloxacin 55 ppm	10	9.60	96.00
	dosis 2 (2000 ppm)	10	11.40	114.00
Total		20		

Test Statistics^a

		Monosit
Mann-Whitney U		41.000
Wilcoxon W		96.000
Z		-.732
Asymp. Sig. (2-tailed)		.464
Exact Sig. [2*(1-tailed Sig.)]		.529 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Monosit	ciprofloxacin 55 ppm	10	11.65	116.50
	dosis 3 (4000 ppm)	10	9.35	93.50
Total		20		

Test Statistics^a

		Monosit
Mann-Whitney U		38.500
Wilcoxon W		93.500
Z		-1.009
Asymp. Sig. (2-tailed)		.313
Exact Sig. [2*(1-tailed Sig.)]		.393 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Monosit	dosis 1 (1000 ppm)	10	9.65	96.50
	dosis 2 (2000 ppm)	10	11.35	113.50
	Total	20		

Test Statistics^a

		Monosit
Mann-Whitney U		41.500
Wilcoxon W		96.500
Z		-.694
Asymp. Sig. (2-tailed)		.488
Exact Sig. [2*(1-tailed Sig.)]		.529 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Monosit	dosis 1 (1000 ppm)	10	11.05	110.50
	dosis 3 (4000 ppm)	10	9.95	99.50
	Total	20		

Test Statistics^a

		Monosit
Mann-Whitney U		44.500
Wilcoxon W		99.500
Z		-.451
Asymp. Sig. (2-tailed)		.652
Exact Sig. [2*(1-tailed Sig.)]		.684 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Monosit	dosis 2 (2000 ppm)	10	12.20	122.00
	dosis 3 (4000 ppm)	10	8.80	88.00
Total		20		

Test Statistics^a

	Monosit
Mann-Whitney U	33.000
Wilcoxon W	88.000
Z	-1.361
Asymp. Sig. (2-tailed)	.174
Exact Sig. [2*(1-tailed Sig.)]	.218 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

Hasil Tes Mann-Whitney Limfosit

NPar Tests

Mann-Whitney Test

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Limfosit	sehat	10	15.50	155.00
	sakit	10	5.50	55.00
Total		20		

Test Statistics^a

	Limfosit
Mann-Whitney U	.000
Wilcoxon W	55.000
Z	-3.791
Asymp. Sig. (2-tailed)	.000
Exact Sig. [2*(1-tailed Sig.)]	.000 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests

Mann-Whitney Test

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Limfosit	sehat	10	15.50	155.00
	ciprofloxacin 55 ppm	10	5.50	55.00
Total		20		

Test Statistics^a

	Limfosit
Mann-Whitney U	.000
Wilcoxon W	55.000
Z	-3.798
Asymp. Sig. (2-tailed)	.000
Exact Sig. [2*(1-tailed Sig.)]	.000 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Limfosit	sehat	10	15.50	155.00
	dosis 1 (1000 ppm)	10	5.50	55.00
Total		20		

Test Statistics^a

		Limfosit
Mann-Whitney U		.000
Wilcoxon W		55.000
Z		-3.824
Asymp. Sig. (2-tailed)		.000
Exact Sig. [2*(1-tailed Sig.)]		.000 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Limfosit	sehat	10	15.50	155.00
	dosis 2 (2000 ppm)	10	5.50	55.00
Total		20		

Test Statistics^a

		Limfosit
Mann-Whitney U		.000
Wilcoxon W		55.000
Z		-3.803
Asymp. Sig. (2-tailed)		.000
Exact Sig. [2*(1-tailed Sig.)]		.000 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Limfosit	sehat	10	14.10	141.00
	dosis 3 (4000 ppm)	10	6.90	69.00
Total		20		

Test Statistics^a

		Limfosit
Mann-Whitney U		14.000
Wilcoxon W		69.000
Z		-2.755
Asymp. Sig. (2-tailed)		.006
Exact Sig. [2*(1-tailed Sig.)]		.005 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Limfosit	sakit	10	6.30	63.00
	ciprofloxacin 55 ppm	10	14.70	147.00
Total		20		

Test Statistics^a

		Limfosit
Mann-Whitney U		8.000
Wilcoxon W		63.000
Z		-3.195
Asymp. Sig. (2-tailed)		.001
Exact Sig. [2*(1-tailed Sig.)]		.001 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Limfosit	sakit	10	5.75	57.50
	dosis 1 (1000 ppm)	10	15.25	152.50
Total		20		

Test Statistics^a

		Limfosit
Mann-Whitney U		2.500
Wilcoxon W		57.500
Z		-3.626
Asymp. Sig. (2-tailed)		.000
Exact Sig. [2*(1-tailed Sig.)]		.000 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Limfosit	sakit	10	6.70	67.00
	dosis 2 (2000 ppm)	10	14.30	143.00
	Total	20		

Test Statistics^a

		Limfosit
Mann-Whitney U		12.000
Wilcoxon W		67.000
Z		-2.899
Asymp. Sig. (2-tailed)		.004
Exact Sig. [2*(1-tailed Sig.)]		.003 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Limfosit	sakit	10	5.50	55.00
	dosis 3 (4000 ppm)	10	15.50	155.00
	Total	20		

Test Statistics^a

		Limfosit
Mann-Whitney U		.000
Wilcoxon W		55.000
Z		-3.790
Asymp. Sig. (2-tailed)		.000
Exact Sig. [2*(1-tailed Sig.)]		.000 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Limfosit	ciprofloxacin 55 ppm	10	9.05	90.50
	dosis 1 (1000 ppm)	10	11.95	119.50
Total		20		

Test Statistics^a

	Limfosit
Mann-Whitney U	35.500
Wilcoxon W	90.500
Z	-1.119
Asymp. Sig. (2-tailed)	.263
Exact Sig. [2*(1-tailed Sig.)]	.280 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Limfosit	ciprofloxacin 55 ppm	10	11.90	119.00
	dosis 2 (2000 ppm)	10	9.10	91.00
Total		20		

Test Statistics^a

	Limfosit
Mann-Whitney U	36.000
Wilcoxon W	91.000
Z	-1.083
Asymp. Sig. (2-tailed)	.279
Exact Sig. [2*(1-tailed Sig.)]	.315 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Limfosit	ciprofloxacin 55 ppm	10	5.85	58.50
	dosis 3 (4000 ppm)	10	15.15	151.50
	Total	20		

Test Statistics^a

	Limfosit
Mann-Whitney U	3.500
Wilcoxon W	58.500
Z	-3.536
Asymp. Sig. (2-tailed)	.000
Exact Sig. [2*(1-tailed Sig.)]	.000 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Limfosit	dosis 1 (1000 ppm)	10	14.15	141.50
	dosis 2 (2000 ppm)	10	6.85	68.50
	Total	20		

Test Statistics^a

	Limfosit
Mann-Whitney U	13.500
Wilcoxon W	68.500
Z	-2.834
Asymp. Sig. (2-tailed)	.005
Exact Sig. [2*(1-tailed Sig.)]	.004 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Limfosit	dosis 1 (1000 ppm)	10	5.80	58.00
	dosis 3 (4000 ppm)	10	15.20	152.00
	Total	20		

Test Statistics^a

	Limfosit
Mann-Whitney U	3.000
Wilcoxon W	58.000
Z	-3.603
Asymp. Sig. (2-tailed)	.000
Exact Sig. [2*(1-tailed Sig.)]	.000 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.

NPar Tests**Mann-Whitney Test**

		Ranks		
	Kelompok	N	Mean Rank	Sum of Ranks
Limfosit	dosis 2 (2000 ppm)	10	5.50	55.00
	dosis 3 (4000 ppm)	10	15.50	155.00
	Total	20		

Test Statistics^a

	Limfosit
Mann-Whitney U	.000
Wilcoxon W	55.000
Z	-3.801
Asymp. Sig. (2-tailed)	.000
Exact Sig. [2*(1-tailed Sig.)]	.000 ^b

a. Grouping Variable: Kelompok

b. Not corrected for ties.