

LAMPIRAN 1

Uji Asumsi Data

1. Uji Normalitas Sebaran Data untuk Jumlah Koloni

Untuk mengetahui apakah sampel penelitian mempunyai sebaran data yang normal, maka dalam penelitian ini digunakan uji *Saphiro Wilk* karena jumlah sampel kurang dari 50.

Tests of Normality						
	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
potensi jam 1	.458	20	.000	.515	20	.000
potensi jam 2	.407	20	.000	.570	20	.000
potensi jam 3	.313	20	.000	.694	20	.000
potensi jam 4	.257	20	.001	.798	20	.001
potensi jam 5	.202	20	.032	.878	20	.016
potensi jam 6	.132	20	.200*	.912	20	.069
potensi jam 24	.206	20	.026	.780	20	.000

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

a. Lilliefors Significance Correction

2. Uji Homogenitas Variansi Data untuk Jumlah Koloni

Test of Homogeneity of Variances				
	Levene Statistic	df1	df2	Sig.
potensi jam 1	9.000	4	15	.001
potensi jam 2	.	4	.	.
potensi jam 3	3.500	4	15	.033
potensi jam 4	2.700	4	15	.071
potensi jam 5	2.837	4	15	.062
potensi jam 6	2.250	4	15	.112
potensi jam 24	10.125	4	15	.000

Lampiran 2 Uji Non Parametrik

1. Waktu Pengamatan Jam 1

a. Uji Kruskal Wallis

Ranks		
perlakuan	N	Mean Rank
potensi jam 1 Kontrol Negatif	4	7.00
Konsentrasi Ekstrak 30 %	4	7.00
Konsentrasi Ekstrak 40 %	4	7.00
Konsentrasi Ekstrak 50 %	4	13.00
Kontrol Positif	4	18.50
Total	20	

Test Statistics ^{a,b}	
	potensi jam 1
Chi-Square	17.084
df	4
Asymp. Sig.	.002

a. Kruskal Wallis Test

b. Grouping Variable: perlakuan

b. Uji Mann Whitney

Ranks			
perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 1 Kontrol Negatif	4	4.50	18.00
Konsentrasi Ekstrak 30 %	4	4.50	18.00
Total	8		

Test Statistics ^a	
	potensi jam 1
Mann-Whitney U	8.000
Wilcoxon W	18.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 1 Kontrol Negatif	4	4.50	18.00
Konsentrasi Ekstrak 40 %	4	4.50	18.00
Total	8		

Test Statistics^a

	potensi jam 1
Mann-Whitney U	8.000
Wilcoxon W	18.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 1 Kontrol Negatif	4	3.00	12.00
Konsentrasi Ekstrak 50 %	4	6.00	24.00
Total	8		

Test Statistics^a

	potensi jam 1
Mann-Whitney U	2.000
Wilcoxon W	12.000
Z	-2.049
Asymp. Sig. (2-tailed)	.040
Exact Sig. [2*(1-tailed Sig.)]	.114 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 1 Kontrol Negatif	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 1
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 1 Konsentrasi Ekstrak 30 %	4	4.50	18.00
Konsentrasi Ekstrak 40 %	4	4.50	18.00
Total	8		

Test Statistics^a

	potensi jam 1
Mann-Whitney U	8.000
Wilcoxon W	18.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 1 Konsentrasi Ekstrak 30 %	4	3.00	12.00
Konsentrasi Ekstrak 50 %	4	6.00	24.00
Total	8		

Test Statistics^a

	potensi jam 1
Mann-Whitney U	2.000
Wilcoxon W	12.000
Z	-2.049
Asymp. Sig. (2-tailed)	.040
Exact Sig. [2*(1-tailed Sig.)]	.114 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 1 Konsentrasi Ekstrak 30 %	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 1
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 1 Konsentrasi Ekstrak 40 %	4	3.00	12.00
Konsentrasi Ekstrak 50 %	4	6.00	24.00
Total	8		

Test Statistics^a

	potensi jam 1
Mann-Whitney U	2.000
Wilcoxon W	12.000
Z	-2.049
Asymp. Sig. (2-tailed)	.040
Exact Sig. [2*(1-tailed Sig.)]	.114 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 1 Konsentrasi Ekstrak 40 %	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 1
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 1			
Konsentrasi Ekstrak 50 %	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 1
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.530
Asymp. Sig. (2-tailed)	.011
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

2. Waktu Pengamatan Jam 2

a. Uji Kruskal Wallis

Ranks

perlakuan	N	Mean Rank
potensi jam 2		
Kontrol Negatif	4	4.50
Konsentrasi Ekstrak 30 %	4	4.50
Konsentrasi Ekstrak 40 %	4	10.50
Konsentrasi Ekstrak 50 %	4	14.50
Kontrol Positif	4	18.50
Total	20	

Test Statistics^{a,b}

	potensi jam 2
Chi-Square	18.876
df	4
Asymp. Sig.	.001

a. Kruskal Wallis Test

b. Grouping Variable: perlakuan

a. Uji Mann Whitney

Ranks			
perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 2 Kontrol Negatif	4	4.50	18.00
Konsentrasi Ekstrak 30 %	4	4.50	18.00
Total	8		

Test Statistics ^a	
	potensi jam 2
Mann-Whitney U	8.000
Wilcoxon W	18.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks			
perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 2 Kontrol Negatif	4	2.50	10.00
Konsentrasi Ekstrak 40 %	4	6.50	26.00
Total	8		

Test Statistics ^a	
	potensi jam 2
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 2 Kontrol Negatif	4	2.50	10.00
Konsentrasi Ekstrak 50 %	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 2
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.494
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 2 Kontrol Negatif	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 2
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 2 Konsentrasi Ekstrak 30 %	4	2.50	10.00
Konsentrasi Ekstrak 40 %	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 2
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 2 Konsentrasi Ekstrak 30 %	4	2.50	10.00
Konsentrasi Ekstrak 50 %	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 2
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.494
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 2 Konsentrasi Ekstrak 30 %	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 2
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 2 Konsentrasi Ekstrak 40 %	4	2.50	10.00
Konsentrasi Ekstrak 50 %	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 2
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.494
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 2 Konsentrasi Ekstrak 40 %	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 2
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 2 Konsentrasi Ekstrak 50 %	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 2
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.494
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

3. Waktu Pengamatan Jam 3

a. Uji Kruskal Wallis

Ranks		
perlakuan	N	Mean Rank
potensi jam 3 Kontrol Negatif	4	2.50
Konsentrasi Ekstrak 30 %	4	6.50
Konsentrasi Ekstrak 40 %	4	11.00
Konsentrasi Ekstrak 50 %	4	14.00
Kontrol Positif	4	18.50
Total	20	

Test Statistics ^{a,b}	
	potensi jam 3
Chi-Square	18.256
df	4
Asymp. Sig.	.001

a. Kruskal Wallis Test

b. Grouping Variable: perlakuan

b. Uji Mann Whitney

Ranks			
perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 3 Kontrol Negatif	4	2.50	10.00
Konsentrasi Ekstrak 40 %	4	6.50	26.00
Total	8		

Test Statistics ^a	
	potensi jam 3
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 3 Kontrol Negatif	4	2.50	10.00
Konsentrasi Ekstrak 50 %	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 3
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 3 Kontrol Negatif	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 3
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 3 Konsentrasi Ekstrak 30 %	4	2.50	10.00
Konsentrasi Ekstrak 40 %	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 3
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.352
Asymp. Sig. (2-tailed)	.019
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 3 Konsentrasi Ekstrak 30 %	4	2.50	10.00
Konsentrasi Ekstrak 50 %	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 3
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.352
Asymp. Sig. (2-tailed)	.019
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 3			
Konsentrasi Ekstrak 30 %	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 3
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.494
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 3			
Konsentrasi Ekstrak 40 %	4	3.00	12.00
Konsentrasi Ekstrak 50 %	4	6.00	24.00
Total	8		

Test Statistics^a

	potensi jam 3
Mann-Whitney U	2.000
Wilcoxon W	12.000
Z	-1.786
Asymp. Sig. (2-tailed)	.074
Exact Sig. [2*(1-tailed Sig.)]	.114 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 3 Konsentrasi Ekstrak 40 %	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 3
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 3 Konsentrasi Ekstrak 50 %	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 3
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

4. Waktu Pengamatan Jam 4

a. Uji Kruskal Wallis

Ranks		
perlakuan	N	Mean Rank
potensi jam 4 Kontrol Negatif	4	2.50
Konsentrasi Ekstrak 30 %	4	6.50
Konsentrasi Ekstrak 40 %	4	10.63
Konsentrasi Ekstrak 50 %	4	14.38
Kontrol Positif	4	18.50
Total	20	

Test Statistics ^{a,b}	
	potensi jam 4
Chi-Square	18.509
df	4
Asymp. Sig.	.001

a. Kruskal Wallis Test

b. Grouping Variable: perlakuan

b. Uji Mann Whitney

Ranks			
perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 4 Kontrol Negatif	4	2.50	10.00
Konsentrasi Ekstrak 30 %	4	6.50	26.00
Total	8		

Test Statistics ^a	
	potensi jam 4
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 4 Kontrol Negatif	4	2.50	10.00
Konsentrasi Ekstrak 40 %	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 4
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 4 Kontrol Negatif	4	2.50	10.00
Konsentrasi Ekstrak 50 %	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 4
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 4	Kontrol Negatif	4	2.50	10.00
	Kontrol Positif	4	6.50	26.00
	Total	8		

Test Statistics^a

	potensi jam 4
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 4	Konsentrasi Ekstrak 30 %	4	2.50	10.00
	Konsentrasi Ekstrak 40 %	4	6.50	26.00
	Total	8		

Test Statistics^a

	potensi jam 4
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.337
Asymp. Sig. (2-tailed)	.019
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks	
6	
6	

m 4
.500
0.500
2.205
.027
.029 ^b

Ranks	
6	

m 4
.000
0.000
2.477
.013
.029 ^b

Ranks			
perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 4	Konsentrasi Ekstrak 40 %	4	2.63
	Konsentrasi Ekstrak 50 %	4	6.38
	Total	8	

Test Statistics ^a	
	potensi jam 4
Mann-Whitney U	.500
Wilcoxon W	10.500
Z	-2.205
Asymp. Sig. (2-tailed)	.027
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks			
perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 4	Konsentrasi Ekstrak 40 %	4	2.50
	Kontrol Positif	4	6.50
	Total	8	

Test Statistics ^a	
	potensi jam 4
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

perlakuan	
Konsentrasi E	
Konsentrasi E	
Total	

Test Statistics^a

U	
(-tailed)	
(1-tailed Sig.)]	

Variable: perlakuan
and for ties.

perlakuan	
Konsentrasi E	
Kontrol Positif	
Total	

Test Statistics^a

U	
(-tailed)	
(1-tailed Sig.)]	

Variable: perlakuan
and for ties.

Ranking	
	perlakuan
potensi jam 4	Konsentrasi Ekstrak 40 %
	Konsentrasi Ekstrak 50 %
	Total

Test Statistics ^a	
	potensi jam 4
Mann-Whitney U	.500
Wilcoxon W	10.500
Z	-2.205
Asymp. Sig. (2-tailed)	.027
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranking	
	perlakuan
potensi jam 4	Konsentrasi Ekstrak 40 %
	Kontrol Positif
	Total

Test Statistics ^a	
	potensi jam 4
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

	perlakuan
potensi jam 4	Konsentrasi E
	Konsentrasi E
	Total

Test Statistics^a

Mann-Whitney U	
Wilcoxon W	
Z	
Asymp. Sig. (2-tailed)	
Exact Sig. [2*(1-tailed Sig.)]	

a. Grouping Variable: perlakuan
b. Not corrected for ties.

	perlakuan
potensi jam 4	Konsentrasi E
	Kontrol Positif
	Total

Test Statistics^a

Mann-Whitney U	
Wilcoxon W	
Z	
Asymp. Sig. (2-tailed)	
Exact Sig. [2*(1-tailed Sig.)]	

a. Grouping Variable: perlakuan
b. Not corrected for ties.

	perlakuan
potensi jam 4	Konsepsi
	Kontrol
	Total

Test Statistic

Mann-Whitney U
Wilcoxon W
Z
Asymp. Sig. (2-tailed)
Exact Sig. [2*(1-tailed Sig.)]

a. Grouping Variable: perlakuan
b. Not corrected for ties.

	perlakuan
potensi jam 4	Konsepsi
	Kontrol
	Total

Test Statistic

Mann-Whitney U
Wilcoxon W
Z
Asymp. Sig. (2-tailed)
Exact Sig. [2*(1-tailed Sig.)]

a. Grouping Variable: perlakuan
b. Not corrected for ties.

Ranks	
6	
6	

m 4
.500
0.500
2.205
.027
.029 ^b

Ranks	
6	

m 4
.000
0.000
2.477
.013
.029 ^b

Ranks				
perlakuan	N	Mean Rank	Sum of Ranks	
potensi jam 4	Konsentrasi Ekstrak 40 %	4	2.63	10.50
	Konsentrasi Ekstrak 50 %	4	6.38	25.50
	Total	8		

Test Statistics ^a	
	potensi jam 4
Mann-Whitney U	.500
Wilcoxon W	10.500
Z	-2.205
Asymp. Sig. (2-tailed)	.027
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks				
perlakuan	N	Mean Rank	Sum of Ranks	
potensi jam 4	Konsentrasi Ekstrak 40 %	4	2.50	10.00
	Kontrol Positif	4	6.50	26.00
	Total	8		

Test Statistics ^a	
	potensi jam 4
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

perlakuan		
Konsentrasi E		
Konsentrasi E		
Total		

Test Statistics^a

U		
(-tailed)		
(1-tailed Sig.)]		

Variable: perlakuan
and for ties.

perlakuan		
Konsentrasi E		
Kontrol Positif		
Total		

Test Statistics^a

U		
(-tailed)		
(1-tailed Sig.)]		

Variable: perlakuan
and for ties.

Ranking	
	perlakuan
potensi jam 4	Konsentrasi Ekstrak 40 %
	Konsentrasi Ekstrak 50 %
	Total

Test Statistics ^a	
	potensi jam 4
Mann-Whitney U	.500
Wilcoxon W	10.500
Z	-2.205
Asymp. Sig. (2-tailed)	.027
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranking	
	perlakuan
potensi jam 4	Konsentrasi Ekstrak 40 %
	Kontrol Positif
	Total

Test Statistics ^a	
	potensi jam 4
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

	perlakuan
potensi jam 4	Konsentrasi E
	Konsentrasi E
	Total

Test Statistics^a

Mann-Whitney U	
Wilcoxon W	
Z	
Asymp. Sig. (2-tailed)	
Exact Sig. [2*(1-tailed Sig.)]	

a. Grouping Variable: perlakuan
b. Not corrected for ties.

	perlakuan
potensi jam 4	Konsentrasi E
	Kontrol Positif
	Total

Test Statistics^a

Mann-Whitney U	
Wilcoxon W	
Z	
Asymp. Sig. (2-tailed)	
Exact Sig. [2*(1-tailed Sig.)]	

a. Grouping Variable: perlakuan
b. Not corrected for ties.

	perlakuan
potensi jam 4	Konsepsi
	Kontrol
	Total

Test Statistic

Mann-Whitney U
Wilcoxon W
Z
Asymp. Sig. (2-tailed)
Exact Sig. [2*(1-tailed Sig.)]

a. Grouping Variable: perlakuan
b. Not corrected for ties.

	perlakuan
potensi jam 4	Konsepsi
	Kontrol
	Total

Test Statistic

Mann-Whitney U
Wilcoxon W
Z
Asymp. Sig. (2-tailed)
Exact Sig. [2*(1-tailed Sig.)]

a. Grouping Variable: perlakuan
b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 4			
Konsentrasi Ekstrak 50 %	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 4
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

5. Waktu Pengamatan Jam 5

a. Uji Kruskal Wallis

Ranks

perlakuan	N	Mean Rank
potensi jam 5		
Kontrol Negatif	4	2.50
Konsentrasi Ekstrak 30 %	4	6.50
Konsentrasi Ekstrak 40 %	4	10.50
Konsentrasi Ekstrak 50 %	4	14.50
Kontrol Positif	4	18.50
Total	20	

Test Statistics^{a,b}

	potensi jam 5
Chi-Square	18.650
df	4
Asymp. Sig.	.001

6.

a. Kruskal Wallis Test

b. Grouping Variable: perlakuan

a. Uji Mann Whitney

Ranks			
perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 5 Kontrol Negatif	4	2.50	10.00
Konsentrasi Ekstrak 30 %	4	6.50	26.00
Total	8		

Test Statistics ^a	
	potensi jam 5
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks			
perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 5 Kontrol Negatif	4	2.50	10.00
Konsentrasi Ekstrak 40 %	4	6.50	26.00
Total	8		

Test Statistics ^a	
	potensi jam 5
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 5 Kontrol Negatif	4	2.50	10.00
Konsentrasi Ekstrak 50 %	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 5
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.530
Asymp. Sig. (2-tailed)	.011
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 5 Kontrol Negatif	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 5
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 5 Konsentrasi Ekstrak 30 %	4	2.50	10.00
Konsentrasi Ekstrak 40 %	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 5
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.337
Asymp. Sig. (2-tailed)	.019
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 5 Konsentrasi Ekstrak 30 %	4	2.50	10.00
Konsentrasi Ekstrak 50 %	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 5
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.381
Asymp. Sig. (2-tailed)	.017
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 5 Konsentrasi Ekstrak 30 %	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 5
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 5 Konsentrasi Ekstrak 40 %	4	2.50	10.00
Konsentrasi Ekstrak 50 %	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 5
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.381
Asymp. Sig. (2-tailed)	.017
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 5 Konsentrasi Ekstrak 40 %	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 5
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 5 Konsentrasi Ekstrak 50 %	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 5
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.530
Asymp. Sig. (2-tailed)	.011
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

7. Waktu Pengamatan Jam 6

a. Uji ANAVA

ANOVA

potensi jam 6

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	22668.800	4	5667.200	1062.600	.000
Within Groups	80.000	15	5.333		
Total	22748.800	19			

b. Uji Post Hoc Tukey

Multiple Comparisons

Dependent Variable: potensi jam 6

Tukey HSD

(I) perlakuan	(J) perlakuan	Mean Difference (I-J)	Std. Error	Sig.
Kontrol Negatif	Konsentrasi Ekstrak 30 %	-36.000*	1.633	.000
	Konsentrasi Ekstrak 40 %	-50.000*	1.633	.000
	Konsentrasi Ekstrak 50 %	-72.000*	1.633	.000
	Kontrol Positif	-100.000*	1.633	.000
Konsentrasi Ekstrak 30 %	Kontrol Negatif	36.000*	1.633	.000
	Konsentrasi Ekstrak 40 %	-14.000*	1.633	.000
	Konsentrasi Ekstrak 50 %	-36.000*	1.633	.000
	Kontrol Positif	-64.000*	1.633	.000
Konsentrasi Ekstrak 40 %	Kontrol Negatif	50.000*	1.633	.000
	Konsentrasi Ekstrak 30 %	14.000*	1.633	.000
	Konsentrasi Ekstrak 50 %	-22.000*	1.633	.000
	Kontrol Positif	-50.000*	1.633	.000
Konsentrasi Ekstrak 50 %	Kontrol Negatif	72.000*	1.633	.000
	Konsentrasi Ekstrak 30 %	36.000*	1.633	.000
	Konsentrasi Ekstrak 40 %	22.000*	1.633	.000
	Kontrol Positif	-28.000*	1.633	.000
Kontrol Positif	Kontrol Negatif	100.000*	1.633	.000
	Konsentrasi Ekstrak 30 %	64.000*	1.633	.000
	Konsentrasi Ekstrak 40 %	50.000*	1.633	.000
	Konsentrasi Ekstrak 50 %	28.000*	1.633	.000

Multiple Comparisons

Dependent Variable: potensi jam 6

Tukey HSD

(I) perlakuan	(J) perlakuan	95% Confidence Interval	
		Lower Bound	Upper Bound
Kontrol Negatif	Konsentrasi Ekstrak 30 %	-41.04	-30.96
	Konsentrasi Ekstrak 40 %	-55.04	-44.96
	Konsentrasi Ekstrak 50 %	-77.04	-66.96
	Kontrol Positif	-105.04	-94.96
Konsentrasi Ekstrak 30 %	Kontrol Negatif	30.96	41.04
	Konsentrasi Ekstrak 40 %	-19.04	-8.96
	Konsentrasi Ekstrak 50 %	-41.04	-30.96
	Kontrol Positif	-69.04	-58.96
Konsentrasi Ekstrak 40 %	Kontrol Negatif	44.96	55.04
	Konsentrasi Ekstrak 30 %	8.96	19.04
	Konsentrasi Ekstrak 50 %	-27.04	-16.96
	Kontrol Positif	-55.04	-44.96
Konsentrasi Ekstrak 50 %	Kontrol Negatif	66.96	77.04
	Konsentrasi Ekstrak 30 %	30.96	41.04
	Konsentrasi Ekstrak 40 %	16.96	27.04
	Kontrol Positif	-33.04	-22.96
Kontrol Positif	Kontrol Negatif	94.96	105.04
	Konsentrasi Ekstrak 30 %	58.96	69.04
	Konsentrasi Ekstrak 40 %	44.96	55.04
	Konsentrasi Ekstrak 50 %	22.96	33.04

8. Waktu Pengamatan Jam 24

a. Uji Kruskal Wallis

Ranks			
Perlakuan		N	Mean Rank
potensi jam 24	Kontrol Negatif	4	2.50
	Konsentrasi Ekstrak 30 %	4	6.50
	Konsentrasi Ekstrak 40 %	4	10.50
	Konsentrasi Ekstrak 50 %	4	16.50
	Kontrol Positif	4	16.50
	Total	20	

Test Statistics^{a,b}

	potensi jam 24
Chi-Square	18.723
df	4
Asymp. Sig.	.001

a. Kruskal Wallis Test

b. Grouping Variable: perlakuan

b. Uji Mann Whitney**Ranks**

	perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 24	Kontrol Negatif	4	2.50	10.00
	Konsentrasi Ekstrak 30 %	4	6.50	26.00
	Total	8		

Test Statistics^a

	potensi jam 24
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 24	Kontrol Negatif	4	2.50	10.00
	Konsentrasi Ekstrak 40 %	4	6.50	26.00
	Total	8		

Test Statistics^a

	potensi jam 24
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 24 Kontrol Negatif	4	2.50	10.00
Konsentrasi Ekstrak 50 %	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 24
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 24 Kontrol Negatif	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 24
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 24 Konsentrasi Ekstrak 30 %	4	2.50	10.00
Konsentrasi Ekstrak 40 %	4	6.50	26.00
Total	8		

	potensi jam 24
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.337
Asymp. Sig. (2-tailed)	.019
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

b. Not corrected for ties.

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 24			
Konsentrasi Ekstrak 30 %	4	2.50	10.00
Konsentrasi Ekstrak 50 %	4	6.50	26.00
Total	8		

	potensi jam 24
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

b. Not corrected for ties.

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 24 Konsentrasi Ekstrak 30 %	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

	potensi jam 24
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 24			
Konsentrasi Ekstrak 40 %	4	2.50	10.00
Konsentrasi Ekstrak 50 %	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 24
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 24			
Konsentrasi Ekstrak 40 %	4	2.50	10.00
Kontrol Positif	4	6.50	26.00
Total	8		

Test Statistics^a

	potensi jam 24
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.477
Asymp. Sig. (2-tailed)	.013
Exact Sig. [2*(1-tailed Sig.)]	.029 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

Ranks

perlakuan	N	Mean Rank	Sum of Ranks
potensi jam 24			
Konsentrasi Ekstrak 50 %	4	4.50	18.00
Kontrol Positif	4	4.50	18.00
Total	8		

Test Statistics^a

	potensi jam 24
Mann-Whitney U	8.000
Wilcoxon W	18.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 ^b

a. Grouping Variable: perlakuan

b. Not corrected for ties.

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Lampiran 3

Uji Korelasi

1. Korelasi Konsentrasi dengan Potensi Insektisida

Correlations				
			perlakuan	potensi
Spearman's rho	perlakuan	Correlation Coefficient	1.000	.968**
		Sig. (2-tailed)	.	.000
		N	20	20
	potensi	Correlation Coefficient	.968**	1.000
		Sig. (2-tailed)	.000	.
		N	20	20

** . Correlation is significant at the 0.01 level (2-tailed).

2. Korelasi Waktu dengan Potensi Insektisida

Correlations				
			waktu	potensi
Spearman's rho	waktu	Correlation Coefficient	1.000	.994**
		Sig. (2-tailed)	.	.000
		N	28	28
	potensi	Correlation Coefficient	.994**	1.000
		Sig. (2-tailed)	.000	.
		N	28	28

** . Correlation is significant at the 0.01 level (2-tailed).

Konsentrasi 30%

Correlations			waktu pengamatan	konsentrasi 30 %
Spearman's rho	waktu pengamatan	Correlation Coefficient	1,000	,983**
		Sig. (2-tailed)	.	,000
		N	28	28
	Potensi insektisida	Correlation Coefficient	,983**	1,000
		Sig. (2-tailed)	,000	.
		N	28	28

** . Correlation is significant at the 0.01 level (2-tailed).

Konsentrasi 40%

Correlations			waktu pengamatan	konsentrasi 40 %
Spearman's rho	waktu pengamatan	Correlation Coefficient	1,000	,994**
		Sig. (2-tailed)	.	,000
		N	28	28
	Potensi insektisida	Correlation Coefficient	,994**	1,000
		Sig. (2-tailed)	,000	.
		N	28	28

** . Correlation is significant at the 0.01 level (2-tailed).

Konsentrasi 50%

Correlations			waktu pengamatan	konsentrasi 50 %
Spearman's rho	waktu pengamatan	Correlation Coefficient	1,000	,994**
		Sig. (2-tailed)	.	,000
		N	28	28
	Potensi insektisida	Correlation Coefficient	,994**	1,000
		Sig. (2-tailed)	,000	.
		N	28	28

** . Correlation is significant at the 0.01 level (2-tailed).