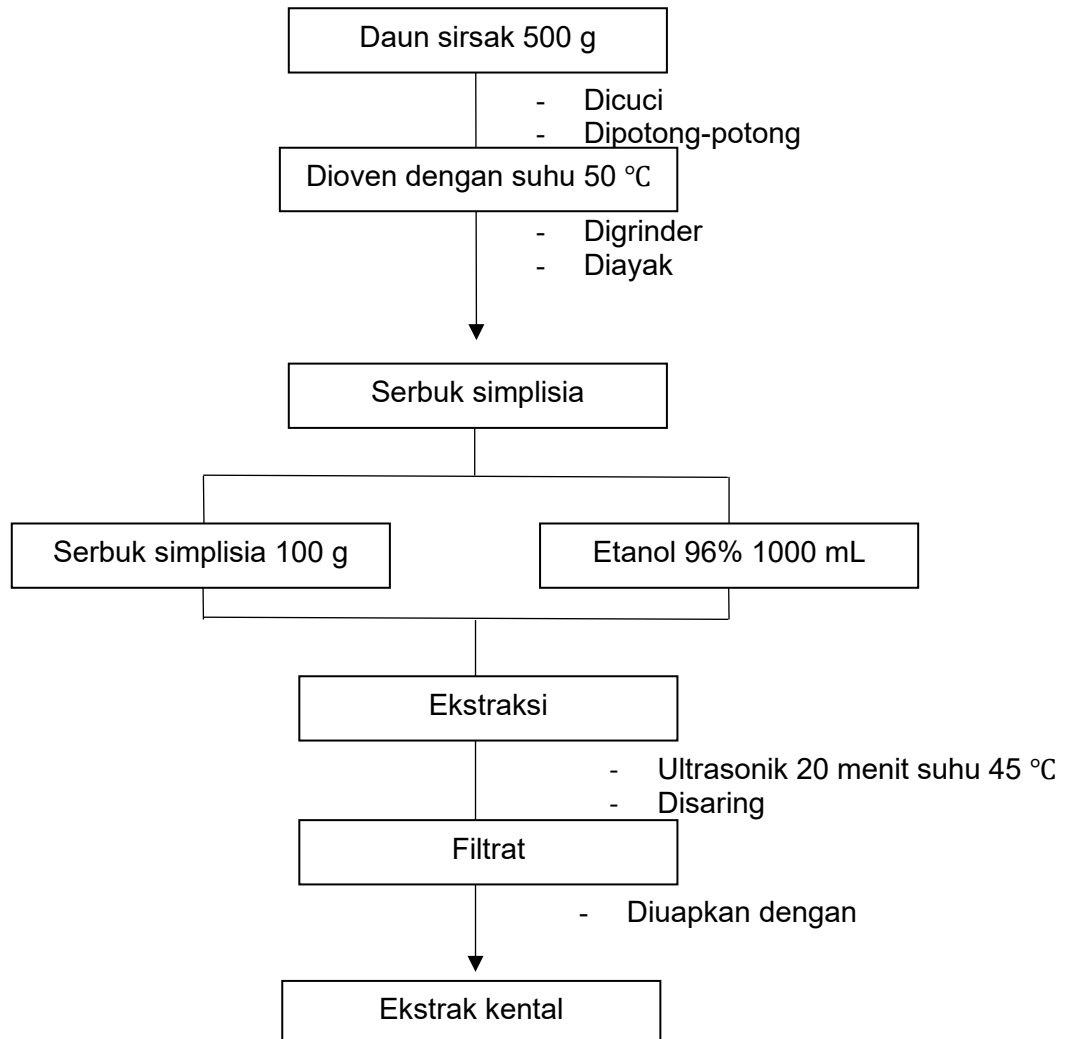


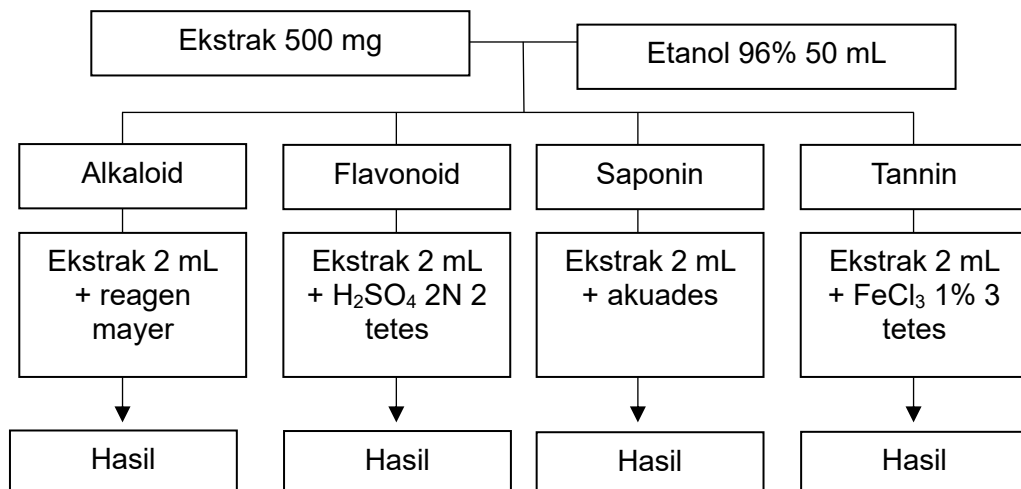
LAMPIRAN-LAMPIRAN

Lampiran 1. Bagan penelitian

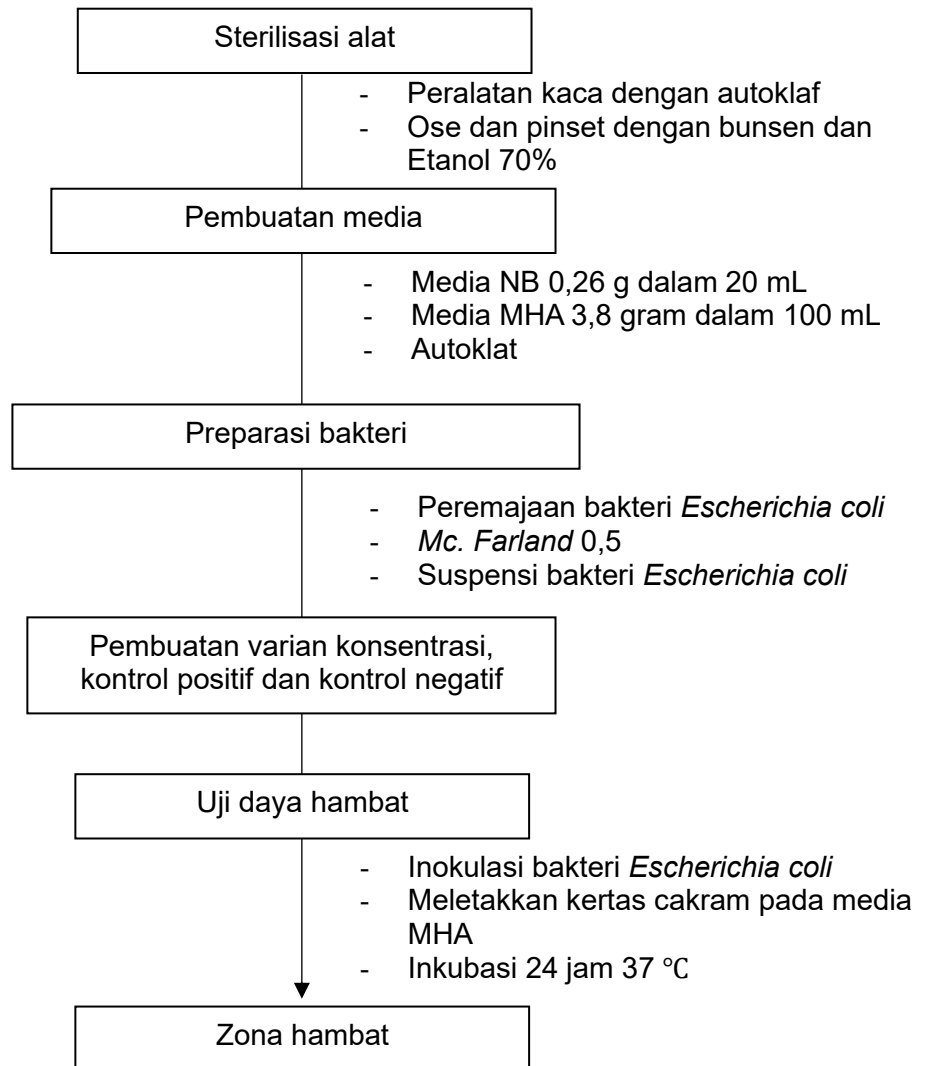
➤ Pembuatan simplisia dan ekstrak daun sirsak



➤ Analisis fitokimia ekstrak daun sirsak



➤ Analisis pertumbuhan bakteri *Escherichia coli* pada ekstrak daun sirsak



Lampiran 2. Dokumentasi hasil penelitian

➤ Analisis fitokimia ekstrak daun sirsak



Uji senyawa alkaloid



Uji senyawa flavonoid

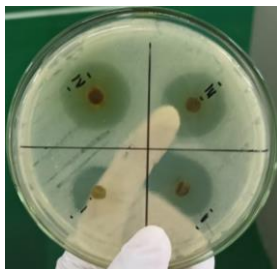


Uji senyawa saponin



Uji senyawa tannin

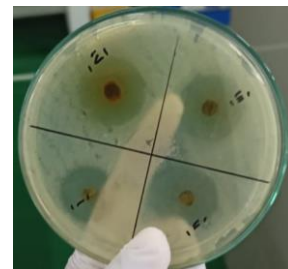
➤ Pertumbuhan bakteri *Escherichia coli* pada ekstrak daun sirsak



Konsentrasi ekstrak 20%, 40%, 60%, dan 80% replikasi 1



Konsentrasi ekstrak 20%, 40%, 60%, dan 80% replikasi 2



Konsentrasi ekstrak 20%, 40%, 60%, dan 80% replikasi 3



Kontrol positif (+) dan negatif (-)

Lampiran 3. Hasil pengaruh ekstrak daun sirsak terhadap pertumbuhan bakteri *Escherichia coli*

Konsentrasi	Replikasi	Diameter (mm)			Rerata $\pm$ SD (mm)
		Zona Keseluruhan	Kertas Cakram	Zona Hambat	
P ₀ = Kontrol negatif (DMSO 10%)	R1	0	6	0	0 $\pm$ 0
P ₀ = Kontrol negatif (DMSO 10%)	R2	0	6	0	
P ₀ = Kontrol negatif (DMSO 10%)	R3	0	6	0	
P ₁ = Kontrol positif (antibiotik Ceftriaxone 10%)	R1	31	6	25	26 $\pm$ 1
P ₁ = Kontrol positif (antibiotik Ceftriaxone 10%)	R2	33	6	27	
P ₁ = Kontrol positif (antibiotik Ceftriaxone 10%)	R3	32	6	26	
P ₁ = Ekstrak daun sirsak 20%	R1	13	6	7	7,66 $\pm$ 0,57
P ₁ = Ekstrak daun sirsak 20%	R2	14	6	8	
P ₁ = Ekstrak daun sirsak 20%	R3	14	6	8	
P ₃ = Ekstrak daun sirsak 40%	R1	19	6	13	12 $\pm$ 1
P ₃ = Ekstrak daun sirsak 40%	R2	18	6	12	
P ₃ = Ekstrak daun sirsak 40%	R3	17	6	11	
P ₄ = Ekstrak daun sirsak 60%	R1	22	6	16	14,66 $\pm$ 1,15
P ₄ = Ekstrak daun sirsak 60%	R2	20	6	14	
P ₄ = Ekstrak daun sirsak 60%	R3	20	6	14	
P ₅ = Ekstrak daun sirsak 80%	R1	26	6	21	20,33 $\pm$ 1,15
P ₅ = Ekstrak daun sirsak 80%	R2	26	6	21	
P ₅ = Ekstrak daun sirsak 80%	R3	25	6	19	

Lampiran 4. Analisis statistik

Descriptives

Diameter Zona Hambat

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
P0=Kontrol Negatif (DMSO 10%)	3	.0000	.00000	.00000	.0000	.0000	.00	.00
P1=Kontrol Positif (Antibiotik Ceftriaxone 5%)	3	26.0000	1.00000	.57735	23.5159	28.4841	25.00	27.00
P2=Ekstrak daun sirsak 20%	3	7.6667	.57735	.33333	6.2324	9.1009	7.00	8.00
P3=Ekstrak daun sirsak 40%	3	12.0000	1.00000	.57735	9.5159	14.4841	11.00	13.00
P4=Ekstrak daun sirsak 60%	3	14.6667	1.15470	.66667	11.7982	17.5351	14.00	16.00
P5=Ekstrak daun sirsak 80%	3	20.3333	1.15470	.66667	17.4649	23.2018	19.00	21.00
Total	18	13.4444	8.67194	2.04400	9.1320	17.7569	.00	27.00

Tests of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Diameter Zona Hambat	Based on Mean	2.015	5	12	.149
	Based on Median	.382	5	12	.852
	Based on Median and with adjusted df	.382	5	6.914	.847
	Based on trimmed mean	1.827	5	12	.182

ANOVA

Diameter Zona Hambat

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1268.444	5	253.689	304.427	<.001
Within Groups	10.000	12	.833		
Total	1278.444	17			

Multiple Comparisons

Dependent Variable: Diameter Zona Hambat
Tukey HSD

(I) Konsentrasi(J) Konsentrasi		Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound Upper Bound	
P0=Kontrol Negatif (DMSO 10%)	P1=Kontrol Positif (Antibiotik Ceftriaxone 5%)	-26.00000*	.74536	<.001	-28.5036	23.4964
	P2=Ekstrak daun sirsak 20%	-7.66667*	.74536	<.001	-10.1703	-5.1631
	P3=Ekstrak daun sirsak 40%	-12.00000*	.74536	<.001	-14.5036	-9.4964
	P4=Ekstrak daun sirsak 60%	-14.66667*	.74536	<.001	-17.1703	-12.1631
	P5=Ekstrak daun sirsak 80%	-20.33333*	.74536	<.001	-22.8369	-17.8297
P1=Kontrol Positif (Antibiotik Ceftriaxone 5%)	P0=Kontrol Negatif (DMSO 10%)	26.00000*	.74536	<.001	23.4964	28.5036
	P2=Ekstrak daun sirsak 20%	18.33333*	.74536	<.001	15.8297	20.8369
	P3=Ekstrak daun sirsak 40%	14.00000*	.74536	<.001	11.4964	16.5036
	P4=Ekstrak daun sirsak 60%	11.33333*	.74536	<.001	8.8297	13.8369
	P5=Ekstrak daun sirsak 80%	5.66667*	.74536	<.001	3.1631	8.1703
P2=Ekstrak daun sirsak 20%	P0=Kontrol Negatif (DMSO 10%)	7.66667*	.74536	<.001	5.1631	10.1703
	P1=Kontrol Positif (Antibiotik Ceftriaxone 5%)	-18.33333*	.74536	<.001	-20.8369	-15.8297
	P3=Ekstrak daun sirsak 40%	-4.33333*	.74536	<.001	-6.8369	-1.8297
	P4=Ekstrak daun sirsak 60%	-7.00000*	.74536	<.001	-9.5036	-4.4964
	P5=Ekstrak daun sirsak 80%	-12.66667*	.74536	<.001	-15.1703	-10.1631
P3=Ekstrak daun sirsak 40%	P0=Kontrol Negatif (DMSO 10%)	12.00000*	.74536	<.001	9.4964	14.5036
	P1=Kontrol Positif (Antibiotik Ceftriaxone 5%)	-14.00000*	.74536	<.001	-16.5036	-11.4964
	P2=Ekstrak daun sirsak 20%	4.33333*	.74536	<.001	1.8297	6.8369
	P4=Ekstrak daun sirsak 60%	-2.66667*	.74536	.035	-5.1703	-.1631
	P5=Ekstrak daun sirsak 80%	-8.33333*	.74536	<.001	-10.8369	-5.8297
P4=Ekstrak daun sirsak 60%	P0=Kontrol Negatif (DMSO 10%)	14.66667*	.74536	<.001	12.1631	17.1703
	P1=Kontrol Positif (Antibiotik Ceftriaxone 5%)	-11.33333*	.74536	<.001	-13.8369	-8.8297
	P2=Ekstrak daun sirsak 20%	7.00000*	.74536	<.001	4.4964	9.5036
	P3=Ekstrak daun sirsak 40%	2.66667*	.74536	.035	.1631	5.1703
	P5=Ekstrak daun sirsak 80%	-5.66667*	.74536	<.001	-8.1703	-3.1631
P5=Ekstrak daun sirsak 80%	P0=Kontrol Negatif (DMSO 10%)	20.33333*	.74536	<.001	17.8297	22.8369
	P1=Kontrol Positif (Antibiotik Ceftriaxone 5%)	-5.66667*	.74536	<.001	-8.1703	-3.1631
	P2=Ekstrak daun sirsak 20%	12.66667*	.74536	<.001	10.1631	15.1703
	P3=Ekstrak daun sirsak 40%	8.33333*	.74536	<.001	5.8297	10.8369
	P4=Ekstrak daun sirsak 60%	5.66667*	.74536	<.001	3.1631	8.1703

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