LAMPIRAN 1. TABEL HASIL PENGAMATAN

Tabel 1.Hasil Daya Berkecambah

Konsentrasi H_2SO_4	Lama perendaman	Ulangan (%)			Total (%)	Rata-rata (%)
		I	II	III		
K0	L1	4	8	6	18	6
	L2	10	8	2	20	6,666667
	L3	8	6	6	20	6,666667
K1	L1	36	42	32	110	36,66667
	L2	36	42	44	122	40,66667
	L3	50	44	40	134	44,66667
K2	L1	88	80	84	252	84
	L2	88	90	92	270	90
	L3	80	76	82	238	79,33333
K3	L1	68	60	62	190	63,33333
	L2	50	48	44	142	47,33333
	L3	24	28	20	72	24
Total		542	532	514	1588	529,3333

Tabel 2.Panjang Hipokotil

Konsentrasi H_2SO_4	Lama perendaman	Ulangan (%)			Total (%)	Rata-rata (%)
		I	II	III		
K0	L1	3,2	2	3	8,2	2,733333
	L2	2,5	3	2	7,5	2,5
	L3	3	2	3	8	2,666667
K1	L1	5	7	6,5	18,5	6,166667
	L2	6	7	6,1	19,1	6,366667
	L3	6,8	7,4	7	21,2	7,066667
K2	L1	6	6,9	6	18,9	6,3
	L2	7,5	6	8	21,5	7,166667
	L3	8,5	8,8	6,8	24,1	8,033333
K3	L1	6	6,5	6,5	19	6,333333
	L2	5,6	5,7	6	17,3	5,766667
	L3	7	6,5	7	20,5	6,833333
Total		67,1	68,8	67,9	203,8	67,93333

Tabel 3. Waktu perkecambahan

Konsentrasi H_2SO_4	Lama perendaman	Ulangan (%)			Total (%)	Rata-rata (%)
		I	II	III		
K0	L1	11	10	12	33	11
	L2	8	10	9	27	9
	L3	9,5	11	8	28,5	9,5
K1	L1	5,8	6	4	15,8	5,266667
	L2	3,8	4,5	3	11,3	3,766667
	L3	2,8	3,8	3,5	10,1	3,366667
K2	L1	4,2	5	2,5	11,7	3,9
	L2	2	3,7	3,5	9,2	3,066667
	L3	2,7	2,3	1,7	6,7	2,233333
K3	L1	3	2,7	3,5	9,2	3,066667
	L2	5	4,9	5	14,9	4,966667
	L3	4,8	3	2,7	10,5	3,5
Total		62,6	66,9	58,4	187,9	62,63333

Tabel 4. Laju perkecambahan

Konsentrasi H_2SO_4	Lama perendaman	Ulangan (%)			Total (%)	Rata-rata (%)
		I	II	III		
K0	L1	0,44	0,92	0,64	2	0,666667
	L2	0,5	0,84	0,22	1,56	0,52
	L3	0,24	0,68	0,64	1,56	0,52
K1	L1	2,4	3,08	2,7	8,18	2,726667
	L2	2,24	2,5	2,3	7,04	2,346667
	L3	2,1	2,2	2,4	6,7	2,233333
K2	L1	4,86	4,78	5,38	15,02	5,006667
	L2	5,38	5,56	6	16,94	5,646667
	L3	5,4	6,12	6,34	17,86	5,953333
K3	L1	5,7	5,3	3,7	14,7	4,9
	L2	2,5	2,2	2	6,7	2,233333
	L3	1,2	1,3	1	3,5	1,166667
Total		32,96	35,48	33,32	101,76	33,92

Keterangan :K0 = Kontrol (0 %) L1 = 35 menit

K1 = 85 % L2 = 45 menit

K2 = 90 % L3 = 55 menit

K3 = 95 %

LAMPIRAN 2. ANALISIS PERHITUNGAN DENGAN ANOVA GANDA

1. Perhitungan Daya Berkecambah

a. Uji ANOVA konsentrasi dan lama perendaman

Tests of Between-Subjects Effects

Dependent Variable:data

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	98114.889[a]	6	16352.481	204.652	.000
konsentrasi	27522.222	3	9174.074	114.814	.000
perendaman	544.222	2	272.111	3.405	.046
Error	2397.111	30	79.904		
Total	100512.000	36			

a. R Squared = ,976 (Adjusted R Squared = ,971)

Keterangan = signifikan konsentrasi dan lama perendaman < 0,05

b. Uji ANOVA interaksi konsentrasi dan lama perendaman

Tests of Between-Subjects Effects

Dependent Variable:data

Source	Type III Sum of Squares	Df	Mean Square	F	Sig.
Model	100186.667[a]	12	8348.889	615.902	.000
Interaksi	100186.667	12	8348.889	615.902	.000
Error	325.333	24	13.556		
Total	100512.000	36			

a. R Squared = ,997 (Adjusted R Squared = ,995)

Keterangan = signifikan konsentrasi dan lama perendaman < 0,05

c. Uji DMRT Konsentrasi

Data

Duncan

konsentrasi	N	Subset 1	Subset 2	Subset 3
1	9	6.4444		
2	9		40.6667	
4	9		44.8889	
3	9			84.4444
Sig.		1.000	.324	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 79,904.

d. Uji DMRT Lama Perendaman

Data

Duncan

perendaman	N	Subset 1	Subset 2
3	12	38.6667	
2	12		46.1667
1	12		47.5000
Sig.		1.000	.717

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 79,904.

e. Uji DMRT interaksi konsentrasi dan lama perendaman

Data

Duncan

Interaksi	N	Subset 1	2	3	4	5	6	7	8
1	3	6.0000							
2	3	6.6667							
3	3	6.6667							
12	3		24.0000						
4	3			36.6667					
5	3			40.6667	40.6667				
6	3				44.6667	44.6667			
11	3					47.3333			
10	3						63.3333		
9	3							79.3333	
7	3							84.0000	84.0000
8	3								90.0000
Sig.		.837	1.000	.196	.196	.384	1.000	.134	.057

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 13,556.

2. Perhitungan Panjang Hipokotil

a. Uji Anova konsentrasi dan lama perendaman

Tests of Between-Subjects Effects

Dependent Variable:data

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	1271.620[a]	6	211.937	463.418	.000
konsentrasi	113.557	3	37.852	82.767	.000
perendaman	4.329	2	2.164	4.733	.016
Error	13.720	30	.457		
Total	1285.340	36			

a. R Squared = ,989 (Adjusted R Squared = ,987)

Keterangan = signifikankonsentrasi dan lama perendaman< 0,05

b. Uji ANOVA interaksi konsentrasi dan lama perendaman

Tests of Between-Subjects Effects

Dependent Variable:data

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	1274.933[a]	12	106.244	245.022	.000
Interaksi	1274.933	12	106.244	245.022	.000
Error	10.407	24	.434		
Total	1285.340	36			

a. R Squared = ,992 (Adjusted R Squared = ,988)

c. Uji DMRT Konsentrasi

Data

Duncan

konsentrasi	N	Subset 1	Subset 2	Subset 3
1	9	2.6333		
4	9		6.3111	
2	9		6.5333	6.5333
3	9			7.1667
Sig.		1.000	.491	.056

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,457.

d. Uji DMRT Lama Perendaman

Data

Duncan

perendaman	N	Subset 1	Subset 2
1	12	5.3833	
2	12	5.4500	
3	12		6.1500
Sig.		.811	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,457.

e. Uji DMRT Interaksi konsentrasi dan lama perendaman

Data

Duncan

Interaksi	N	Subset 1	Subset 2	Subset 3	Subset 4
2	3	2.5000			
3	3	2.6667			
1	3	2.7333			
11	3		5.7667		
4	3		6.1667	6.1667	
7	3		6.3000	6.3000	
10	3		6.3333	6.3333	
5	3		6.3667	6.3667	
12	3		6.8333	6.8333	6.8333
6	3			7.0667	7.0667
8	3			7.1667	7.1667
9	3				8.0333
Sig.		.687	.091	.116	.050

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,434.

3. Perhitungan waktu perkecambahan

a. Uji ANOVA konsentrasi dan lama perendaman

Tests of Between-Subjects Effects

Dependent Variable:data

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	1249.725[a]	6	208.287	175.696	.000
konsentrasi	260.934	3	86.978	73.368	.000
perendaman	8.057	2	4.029	3.398	.047
Error	35.565	30	1.186		
Total	1285.290	36			

a. R Squared = ,972 (Adjusted R Squared = ,967)

Keterangan = signifikankonsentrasi dan lama perendaman< 0,05

b.Uji ANOVA interaksi konsentrasi dan lama perendaman

Tests of Between-Subjects Effects

Dependent Variable:data

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	1264.303[a]	12	105.359	120.486	.000
Interaksi	1264.303	12	105.359	120.486	.000
Error	20.987	24	.874		
Total	1285.290	36			

a. R Squared = ,984 (Adjusted R Squared = ,976)

Keterangan = signifikankonsentrasi dan lama perendaman< 0,05

c. Uji DMRT konsentrasi

Data

Duncan

konsentrasi	N	Subset 1	Subset 2
3	9	3.0667	
4	9	3.8444	
2	9	4.1333	
1	9		9.8333
Sig.		.057	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 1,186.

d. Uji DMRT lama perendaman

Data

Duncan

perendaman	N	Subset 1	Subset 2
3	12	4.6500	
2	12	5.2000	5.2000
1	12		5.8083
Sig.		.226	.181

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 1,186.

e. Uji DMRT interaksi konsentrasi dan lama perendaman

Data

Duncan

interaksi	N	Subset 1	2	3	4	5
9	3	2.2333				
8	3	3.0667				
10	3	3.0667				
6	3	3.3667	3.3667			
12	3	3.5000	3.5000			
5	3	3.7667	3.7667	3.7667		
7	3	3.9000	3.9000	3.9000		
11	3		4.9667	4.9667		
4	3			5.2667		
2	3				9.0000	
3	3				9.5000	9.5000
1	3					11.0000
Sig.		.067	.071	.083	.519	.061

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,874.

4. Perhitungan Laju Perkecambahan

a. Uji ANOVA konsentrasi dan lama perendaman

Tests of Between-Subjects Effects

Dependent Variable:data

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	399.992[a]	6	66.665	90.095	.000
konsentrasi	110.322	3	36.774	49.698	.000
perendaman	5.185	2	2.593	3.504	.043
Error	22.198	30	.740		
Total	422.190	36			

a. R Squared = ,947 (Adjusted R Squared = ,937)

b. Uji ANOVA interaksi konsentrasi dan lama perendaman

Tests of Between-Subjects Effects

Dependent Variable:data

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Model	427.382[a]	12	35.615	220.983	.000
Interaksi	427.382	12	35.615	220.983	.000
Error	3.868	24	.161		
Total	431.250	36			

a. R Squared = ,991 (Adjusted R Squared = ,987)

c. Uji DMRT konsentrasi

Data

Duncan

konsentrasi	N	Subset 1	Subset 2	Subset 3
1	9	.5689		
2	9		2.4356	
4	9		2.7667	
3	9			5.4733
Sig.		1.000	.421	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,740.

d. Uji DMRT lama perendaman

Data

Duncan

perendaman	N	Subset 1	Subset 2
3	12	2.4200	
2	12	2.6883	2.6883
1	12		3.3250
Sig.		.451	.080

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,740.

e. Uji DMRT interaksi konsentrasi dan lama perendaman

Data

Duncan

interaksi	N	Subset 1	2	3	4	5
2	3	.5200				
3	3	.5200				
1	3	.6667				
12	3	1.1667				
6	3		2.2333			
11	3		2.2333			
5	3		2.3467			
4	3		2.7267			
10	3			4.9000		
7	3			5.0067	5.0067	
8	3				5.6533	5.6533
9	3					6.0133
Sig.		.082	.181	.748	.060	.283

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = ,161.

LAMPIRAN 3. GAMBAR PENGAMATAN

Gambar 3.1 Alat yang digunakan dalam penelitian




Gambar 3.2 Bahan yang digunakan dalam penelitian




Gambar 3.3 Persiapan media dan penanaman

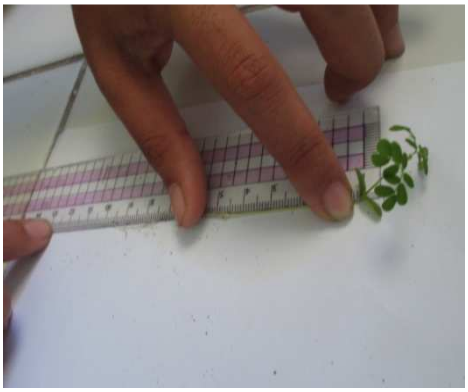



Gambar 3.4 Hasil perkecambahan


Hasil perkecambahan terbaik biji sengon pada hari ke-14


Hasil perkecambahan Kontrol Kecambah Normal

Hasil kecambah biji sengon



pengukuran panjang hipokotil