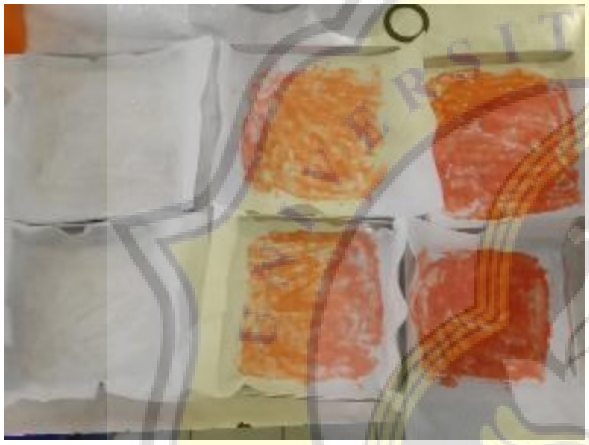
7. LAMPIRAN

Lampiran 1. Penimbangan Tepung Jali

Lampiran 2. Penimbangan Kulit Kayu Secang

Lampiran 3. Perebusan Kulit Kayu Secang

Lampiran 4. Pragelatinisasi Bubur



Lampiran 5. Pengolesan *Slurry* Pada Kertas Minyak dengan Loyang Alumunium

Lampiran 6. Ekstraksi Antioksidan Sampel

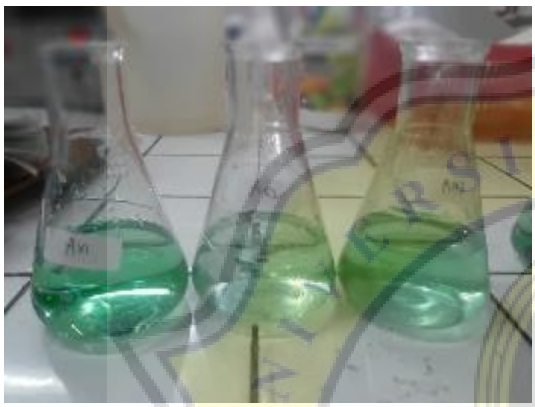
Lampiran 7. Penambahan Ekstrak Sampel dengan DPPH

Lampiran 8. Uji Antioksidan Sampel Bubur Instan Ekstrak Kayu Secang

Lampiran 9. Sampel Uji Kadar Air

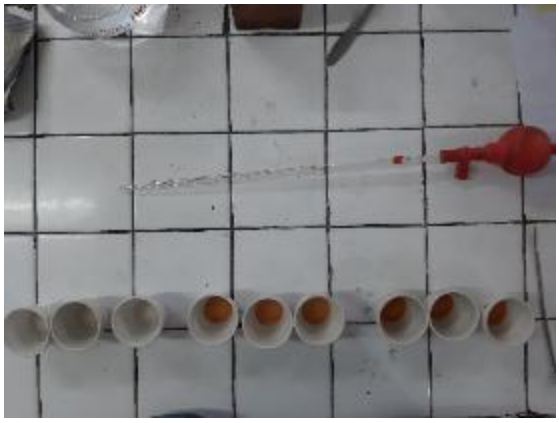
Lampiran 10. Proses Dekstruksi Protein

Lampiran 11. Proses Destilasi Protein

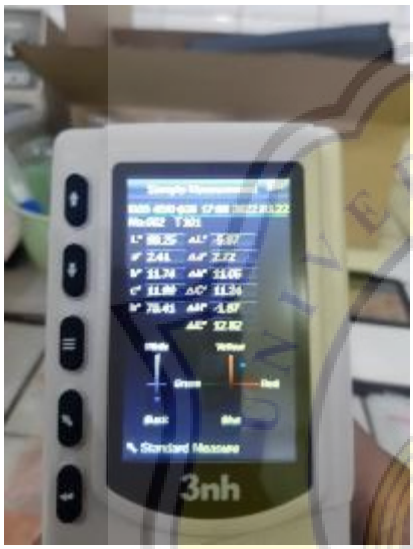


Lampiran 12. Hasil Destilasi Sebelum Titrasi HCl

Lampiran 13. Hasil Destilasi Sesudah Titrasi HCl



Lampiran 14. Uji Rehidrasi Sampel



Lampiran 15. Uji Chroma

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Kadar_Protein	.155	27	.093	.925	27	.051

a. Lilliefors Significance Correction

Lampiran 16. Uji Normalitas Data Kadar Protein pada Setiap Perlakuan Suhu dan Konsentrasi

Parameter	n	x-bar	Stdev	Var	Nilai Kolmogorov-Smirnov		Kesimpulan
					Hitung	Tabel (0.05 , n = 54)	
Antioksidan	54	12.263	9.943	98.858	0.464	0.674	Nilai hitung<tabel, maka

							sebaran data normal
Kadar Air	54	3.183	0.709	0.503	0.392	0.674	Nilai hitung<tabel, maka **sebaran data normal**
Rehidrasi	54	4.272	0.352	0.124	0.416	0.674	Nilai hitung<tabel, maka **sebaran data normal**
L*	54	67.922	8.955	80.191	0.431	0.674	Nilai hitung<tabel, maka **sebaran data normal**
a*	54	3.292	0.786	0.618	0.487	0.674	Nilai hitung<tabel, maka **sebaran data normal**
b*	54	4.792	1.008	1.016	0.583	0.674	Nilai hitung<tabel, maka **sebaran data normal**

Lampiran 17. Uji Normalitas Perhitungan Manual

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
Kadar_Air	Based on Mean	28.701	2	51	.000
	Based on Median	25.486	2	51	.000
	Based on Median and with adjusted df	25.486	2	49.314	.000
	Based on trimmed mean	28.744	2	51	.000
Rehidrasi	Based on Mean	85.669	2	51	.000
	Based on Median	81.258	2	51	.000
	Based on Median and with adjusted df	81.258	2	38.478	.000
	Based on trimmed mean	85.350	2	51	.000
L	Based on Mean	.214	2	51	.808
	Based on Median	.242	2	51	.786
	Based on Median and with adjusted df	.242	2	49.847	.786
	Based on trimmed mean	.201	2	51	.818
a	Based on Mean	1.994	2	51	.147
	Based on Median	.766	2	51	.470
	Based on Median and with adjusted df	.766	2	45.053	.471
	Based on trimmed mean	1.915	2	51	.158
b	Based on Mean	.129	2	51	.879
	Based on Median	.070	2	51	.932
	Based on Median and with adjusted df	.070	2	50.806	.932
	Based on trimmed mean	.126	2	51	.882
Antioksidan	Based on Mean	1.604	2	51	.211
	Based on Median	1.818	2	51	.173
	Based on Median and with adjusted df	1.818	2	49.532	.173
	Based on trimmed mean	1.688	2	51	.195

Lampiran 18. Uji Homogenitas Pada Seluruh Uji Terhadap Perlakuan Suhu

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
Kadar_Air	Based on Mean	.028	2	51	.972
	Based on Median	.006	2	51	.994
	Based on Median and with adjusted df	.006	2	50.624	.994
	Based on trimmed mean	.033	2	51	.968
Rehidrasi	Based on Mean	.341	2	51	.713
	Based on Median	.154	2	51	.858
	Based on Median and with adjusted df	.154	2	50.791	.858
	Based on trimmed mean	.364	2	51	.697
L	Based on Mean	11.557	2	51	.000
	Based on Median	6.500	2	51	.003
	Based on Median and with adjusted df	6.500	2	40.031	.004
	Based on trimmed mean	11.028	2	51	.000
a	Based on Mean	6.173	2	51	.004
	Based on Median	4.765	2	51	.013
	Based on Median and with adjusted df	4.765	2	31.032	.016
	Based on trimmed mean	6.136	2	51	.004
b	Based on Mean	1.154	2	51	.323
	Based on Median	.834	2	51	.440
	Based on Median and with adjusted df	.834	2	37.276	.442
	Based on trimmed mean	1.164	2	51	.320
Antioksidan	Based on Mean	8.355	2	51	.001
	Based on Median	8.669	2	51	.001
	Based on Median and with adjusted df	8.669	2	33.412	.001
	Based on trimmed mean	8.631	2	51	.001

Lampiran 19. Uji Homogenitas Pada Seluruh Uji Terhadap Konsentrasi Ekstrak Secang

Parameter	Leven Hitung	Levene Tabel (0.05, df = 3)	Kesimpulan
Kadar Air	1.246	5.9915	Levene Hitung < Levene Tabel, maka **Variance Homogen**
Rehidrasi	2.007	5.9915	Levene Hitung < Levene Tabel, maka **Variance Homogen**
L*	1.399	5.9915	Levene Hitung < Levene Tabel, maka **Variance Homogen**

a*	0.779	5.9915	Levene Hitung < Levene Tabel, maka **Variance Homogen**
Antioksidan	3.202	5.9915	Levene Hitung < Levene Tabel, maka **Variance Homogen**

Lampiran 20. Uji Homogenitas Perhitungan Manual

Tests of Between-Subjects Effects

Dependent Variable: Antioksidan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4423.523[a]	8	552.940	30.495	.000
Intercept	8121.207	1	8121.207	447.886	.000
Suhu	284.789	2	142.394	7.853	.001
Konsentrasi	3985.844	2	1992.922	109.910	.000
Suhu * Konsentrasi	152.890	4	38.223	2.108	.095
Error	815.954	45	18.132		
Total	13360.685	54			
Corrected Total	5239.477	53			

a. R Squared = .844 (Adjusted R Squared = .817)

Lampiran 21. Uji *Two Way ANOVA* Data Aktivitas Antioksidan

Antioksidan

Duncan[a,b]

Suhu	N	Subset 1	Subset 2
2.00	18	9.4148	
3.00	18		12.3370
1.00	18		15.0386
Sig.		1.000	.063

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 18.132.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Lampiran 22. Uji *Duncan* Data Aktivitas Antioksidan Antar Perlakuan Suhu

Antioksidan

Duncan[a,b]

Konsentrasi	N	Subset 1	Subset 2	Subset 3
1.00	18	2.6490		
2.00	18		10.6372	
3.00	18			23.5042
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 18.132.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Lampiran 23. Uji *Duncan* Data Aktivitas Antioksidan Antar Perlakuan Konsentrasi

Tests of Between-Subjects Effects

Dependent Variable: Kadar_Protein

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	6.189[a]	8	.774	6.702	.000
Intercept	2068.165	1	2068.165	17916.707	.000
Konsentrasi	2.221	2	1.111	9.621	.001
Suhu	.520	2	.260	2.253	.134
Konsentrasi * Suhu	3.447	4	.862	7.466	.001
Error	2.078	18	.115		
Total	2076.431	27			
Corrected Total	8.266	26			

a. R Squared = .749 (Adjusted R Squared = .637)

Lampiran 24. Uji *Two Way ANOVA* Data Kadar Protein

Kadar_Protein

Duncan[a,b]

Suhu	N	Subset 1
1.00	9	8.5640
2.00	9	8.7973
3.00	9	8.8949
Sig.		.065

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .115.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

Lampiran 25. Uji *Duncan* Data Kadar Protein Antar Perlakuan Suhu

Kadar_Protein

Duncan[a,b]

Konsentrasi	N	Subset 1	Subset 2
1.00	9	8.3576	
2.00	9		8.8675
3.00	9		9.0311
Sig.		1.000	.320

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .115.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = .05.

Lampiran 26. Uji *Duncan* Data Kadar Protein Antar Perlakuan Konsentrasi

Tests of Between-Subjects Effects

Dependent Variable: Kadar_Air

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	13.222[a]	8	1.653	5.529	.000
Intercept	547.132	1	547.132	1830.520	.000
Suhu	12.009	2	6.005	20.090	.000
Konsentrasi	1.107	2	.554	1.852	.169
Suhu * Konsentrasi	.105	4	.026	.088	.986
Error	13.450	45	.299		
Total	573.804	54			
Corrected Total	26.672	53			

a. R Squared = .496 (Adjusted R Squared = .406)

Lampiran 27. Uji *Two Way ANOVA* Data Kadar Air

Kadar_Air

Duncan[a,b]

Suhu	N	Subset 1	Subset 2	Subset 3
3.00	18	2.6518		
2.00	18		3.0996	
1.00	18			3.7979
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .299.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Lampiran 28. Uji *Duncan* Data Kadar Air Antar perlakuan Suhu

Kadar_Air

Duncan[a,b]

Konsentrasi	N	Subset 1
3.00	18	3.0307
2.00	18	3.1438
1.00	18	3.3748
Sig.		.080

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square (Error) = .299.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Lampiran 29. Uji *Duncan* Data Kadar Air Antar Perlakuan Konsentrasi

Tests of Between-Subjects Effects

Dependent Variable: Rehidrasi

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	153.532[a]	8	19.192	2.330	.035
Intercept	18229.286	1	18229.286	2212.923	.000
Suhu	140.991	2	70.496	8.558	.001
Konsentrasi	8.464	2	4.232	.514	.602
Suhu * Konsentrasi	4.077	4	1.019	.124	.973
Error	370.694	45	8.238		
Total	18753.513	54			
Corrected Total	524.226	53			

a. R Squared = .293 (Adjusted R Squared = .167)

Lampiran 30. Uji *Two Way ANOVA* Data Waktu Rehidrasi

Rehidrasi

Duncan[a,b]

Suhu	N	Subset 1	Subset 2
3.00	18	16.4556	
2.00	18	18.2561	
1.00	18		20.4083
Sig.		.066	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 8.238.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Lampiran 31. Uji *Duncan* Data Waktu Rehidrasi Antar Perlakuan Suhu

Rehidrasi

Duncan[a,b]

Konsentrasi	N	Subset 1
1.00	18	17.9222
2.00	18	18.3117
3.00	18	18.8861
Sig.		.349

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square (Error) = 8.238.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Lampiran 32. Uji *Duncan* Data Waktu Rehidrasi Antar Perlakuan Konsentrasi

Tests of Between-Subjects Effects

Dependent Variable: L

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4087.690[a]	8	510.961	141.554	.000
Intercept	249121.051	1	249121.051	69014.995	.000
Suhu	1.422	2	.711	.197	.822
Konsentrasi	4043.537	2	2021.768	560.099	.000
Suhu * Konsentrasi	42.731	4	10.683	2.959	.030
Error	162.435	45	3.610		
Total	253371.176	54			
Corrected Total	4250.125	53			

a. R Squared = .962 (Adjusted R Squared = .955)

Lampiran 33. Uji *Two Way ANOVA* Data Nilai L*

L

Duncan[a,b]

Suhu	N	Subset 1
1.00	18	67.8022
3.00	18	67.8117
2.00	18	68.1511
Sig.		.608

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 3.610.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Lampiran 34. Uji *Duncan* Data Nilai L* Antar Perlakuan Suhu

L

Duncan[a,b]

Konsentrasi	N	Subset 1	Subset 2	Subset 3
3.00	18	60.4539		
2.00	18		63.2594	
1.00	18			80.0517
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 3.610.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Lampiran 35. Uji *Duncan* Data Nilai L* Antar Perlakuan Konsentrasi

Tests of Between-Subjects Effects

Dependent Variable: a

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1268.985[a]	8	158.623	187.498	.000
Intercept	7068.318	1	7068.318	8354.975	.000
Suhu	42.291	2	21.145	24.995	.000
Konsentrasi	1195.860	2	597.930	706.772	.000
Suhu * Konsentrasi	30.834	4	7.708	9.112	.000
Error	38.070	45	.846		
Total	8375.373	54			
Corrected Total	1307.055	53			

a. R Squared = .971 (Adjusted R Squared = .966)

Lampiran 36. Uji *Two Way ANOVA* Data Nilai a*

a

Duncan[a,b]

Suhu	N	Subset 1	Subset 2	Subset 3
2.00	18	10.5322		
3.00	18		11.1500	
1.00	18			12.6406
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .846.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Lampiran 37. Uji *Duncan* Data Nilai a* Antar Perlakuan Suhu

a

Duncan[a,b]

Konsentrasi	N	Subset 1	Subset 2	Subset 3
1.00	18	5.1094		
2.00	18		12.8311	
3.00	18			16.3822
Sig.		1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = .846.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Lampiran 38. Uji *Duncan* Data Nilai a* Antar Perlakuan Konsentrasi

Tests of Between-Subjects Effects

Dependent Variable: b

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4154.858[a]	8	519.357	231.339	.000
Intercept	31009.512	1	31009.512	13812.666	.000
Suhu	11.726	2	5.863	2.611	.085
Konsentrasi	4139.653	2	2069.827	921.969	.000
Suhu * Konsentrasi	3.479	4	.870	.387	.816
Error	101.025	45	2.245		
Total	35265.395	54			
Corrected Total	4255.883	53			

a. R Squared = .976 (Adjusted R Squared = .972)

Lampiran 39. Uji *Two Way ANOVA* Data Nilai b*

b

Duncan[a,b]

Suhu	N	Subset 1	Subset 2
2.00	18	23.3667	
1.00	18	24.0200	24.0200
3.00	18		24.5039
Sig.		.197	.338

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 2.245.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Lampiran 40. Uji *Duncan* Data Nilai b* Antar Perlakuan Suhu

b

Duncan[a,b]

Konsentrasi	N	Subset 1	Subset 2
1.00	18	11.5878	
2.00	18		29.8033
3.00	18		30.4994
Sig.		1.000	.170

Means for groups in homogeneous subsets are displayed.
Based on observed means.
The error term is Mean Square(Error) = 2.245.

a. Uses Harmonic Mean Sample Size = 18.000.

b. Alpha = .05.

Lampiran 41. Uji *Duncan* Data Nilai b* Antar Perlakuan Konsentrasi

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