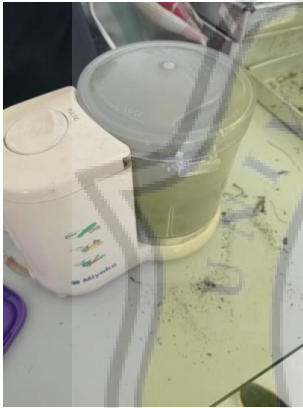


7. LAMPIRAN

Lampiran 1. Pengeringan Daun Sambiloto



Lampiran 2. Penghalusan Daun Sambiloto



Lampiran 3. Pengayakan Serbuk Daun Sambiloto



Lampiran 4. Penimbangan Serbuk Daun Sambiloto



Lampiran 5. Ekstraksi Daun Sambiloto



Lampiran 6. Penyaringan Ekstrak Sambiloto



Lampiran 7. Spektrofotometri Flavonoid dan Antioksidan



Lampiran 8. Tabel Hasil Analisis

Suhu (°C)	Waktu (menit)	Antioksidan (% inhibisi)	Flavonoid (mg QE/g)	Warna		
				L*	a*	b*
30	5	49,39	1,77	5,90	-1,98	0,23
30	5	50,29	2,35	4,66	-3,64	-0,24
30	5	50,24	4,51	5,04	-2,84	-0,94
30	10	52,72	2,68	7,24	-1,19	0,81
30	10	54,15	3,52	5,28	-3,12	-0,45
30	10	57,28	4,71	4,37	-3,97	-0,66
30	15	51,44	3,87	5,58	-2,66	-0,30
30	15	50,81	4,82	5,18	-2,94	-0,58
30	15	55,85	4,85	5,55	-2,98	-0,23
40	5	57,98	4,01	6,60	-2,65	-0,51
40	5	57,10	4,81	4,79	-3,65	-0,47
40	5	58,74	4,69	4,51	-3,59	-0,77
40	10	59,41	4,59	4,78	-3,67	0,00
40	10	59,08	4,72	4,42	-3,37	-0,64
40	10	61,68	5,27	5,11	-3,32	-0,49
40	15	55,47	5,26	6,41	-2,02	0,06
40	15	55,65	6,18	5,08	-3,08	-0,62
40	15	56,24	6,22	5,17	-3,07	-0,61
50	5	52,84	3,84	5,78	-2,03	-0,28
50	5	54,68	3,86	4,52	-3,68	-0,67
50	5	56,72	2,60	4,84	-3,18	-0,95
50	10	55,63	3,43	6,36	-2,24	0,27
50	10	56,73	4,45	4,99	-3,19	-0,63
50	10	57,56	2,54	5,44	-2,79	-0,67
50	15	53,67	2,04	5,37	-2,69	-0,44
50	15	54,25	4,38	5,49	-2,95	-0,34
50	15	53,79	2,04	5,20	-2,99	-0,55

Lampiran 9. Uji Normalitas pada Setiap Perlakuan

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Flavonoid	.140	27	.188	.947	27	.178
Antioksidan	.095	27	.200 [*]	.981	27	.874
L	.134	27	.200 [*]	.927	27	.059
a	.137	27	.200 [*]	.942	27	.133
b	.169	27	.046	.902	27	.015

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

a. Lilliefors Significance Correction

Lampiran 10. Uji Homogenitas pada Variabel Suhu

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
Antioksidan	Based on Mean	1.537	2	24	.235
	Based on Median	.790	2	24	.465
	Based on Median and with adjusted df	.790	2	16.983	.470
	Based on trimmed mean	1.473	2	24	.249
Flavonoid	Based on Mean	1.836	2	24	.181
	Based on Median	1.294	2	24	.293
	Based on Median and with adjusted df	1.294	2	22.712	.294
	Based on trimmed mean	1.768	2	24	.192
L	Based on Mean	.436	2	24	.652
	Based on Median	.276	2	24	.761
	Based on Median and with adjusted df	.276	2	20.839	.762
	Based on trimmed mean	.359	2	24	.702
a	Based on Mean	.650	2	24	.531
	Based on Median	.501	2	24	.612
	Based on Median and with adjusted df	.501	2	18.992	.614
	Based on trimmed mean	.584	2	24	.565
b	Based on Mean	.505	2	24	.610
	Based on Median	.326	2	24	.725
	Based on Median and with adjusted df	.326	2	22.250	.725
	Based on trimmed mean	.457	2	24	.639

Lampiran 11. Uji Homogenitas dari Variabel Waktu

Test of Homogeneity of Variance

		Levene Statistic	df1	df2	Sig.
Antioksidan	Based on Mean	3.017	2	24	.068
	Based on Median	2.555	2	24	.099
	Based on Median and with adjusted df	2.555	2	21.763	.101
	Based on trimmed mean	3.013	2	24	.068
Flavonoid	Based on Mean	.676	2	24	.518
	Based on Median	.441	2	24	.649
	Based on Median and with adjusted df	.441	2	20.397	.650
	Based on trimmed mean	.662	2	24	.525
L	Based on Mean	2.224	2	24	.130
	Based on Median	1.115	2	24	.344
	Based on Median and with adjusted df	1.115	2	18.918	.348
	Based on trimmed mean	1.898	2	24	.172
a	Based on Mean	2.621	2	24	.093
	Based on Median	1.824	2	24	.183
	Based on Median and with adjusted df	1.824	2	16.940	.192
	Based on trimmed mean	2.444	2	24	.108
b	Based on Mean	3.039	2	24	.067
	Based on Median	1.324	2	24	.285
	Based on Median and with adjusted df	1.324	2	16.275	.293
	Based on trimmed mean	2.611	2	24	.094

Lampiran 12. Uji *two way* ANOVA Data Antioksidan**Tests of Between-Subjects Effects**

Dependent Variable: Antioksidan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	207.566 ^a	8	25.946	11.187	.000
Intercept	82158.614	1	82158.614	35424.054	.000
Suhu	134.429	2	67.215	28.981	.000
Waktu	52.705	2	26.352	11.362	.001
Suhu * Waktu	20.431	4	5.108	2.202	.110
Error	41.747	18	2.319		
Total	82407.927	27			
Corrected Total	249.313	26			

a. R Squared = .833 (Adjusted R Squared = .758)

Lampiran 13. Uji *Duncan* Data Antioksidan Variabel Suhu**Antioksidan**Duncan^{a,b}

Suhu	N	Subset		
		1	2	3
30	9	52.4633		
50	9		55.0967	
40	9			57.9278
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) = 2.319.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = 0.05.

Lampiran 14. Uji *Duncan* Data Antioksidan Variabel Waktu**Antioksidan**Duncan^{a,b}

Waktu	N	Subset	
		1	2
15	9	54.1300	
5	9	54.2200	
10	9		57.1378
Sig.		.902	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 2.319.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = 0.05.

Lampiran 15. Uji *two way* ANOVA Data Flavonoid**Tests of Between-Subjects Effects**

Dependent Variable: Flavonoid

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	24.602 ^a	8	3.075	3.788	.009
Intercept	432.080	1	432.080	532.196	.000
Suhu	16.678	2	8.339	10.271	.001
Waktu	2.897	2	1.449	1.784	.196
Suhu * Waktu	5.027	4	1.257	1.548	.231
Error	14.614	18	.812		
Total	471.296	27			
Corrected Total	39.216	26			

a. R Squared = .627 (Adjusted R Squared = .462)

Lampiran 16. Uji *Duncan* Data Flavonoid Variabel Suhu**Flavonoid**Duncan^{a,b}

Suhu	N	Subset	
		1	2
50	9	3.2422	
30	9	3.6756	
40	9		5.0833
Sig.		.321	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .812.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = 0.05.

Lampiran 17. Uji *Duncan* Data Flavonoid Variabel Waktu**Flavonoid**Duncan^{a,b}

Waktu	N	Subset 1
5	9	3.6044
10	9	3.9900
15	9	4.4067
Sig.		.089

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .812.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = 0.05.

Lampiran 18. Uji *two way* ANOVA Data L***Tests of Between-Subjects Effects**

Dependent Variable: L

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.901 ^a	8	.238	.389	.913
Intercept	764.378	1	764.378	1250.625	.000
Suhu	.209	2	.104	.171	.844
Waktu	.319	2	.160	.261	.773
Suhu * Waktu	1.374	4	.343	.562	.693
Error	11.002	18	.611		
Total	777.281	27			
Corrected Total	12.903	26			

a. R Squared = .147 (Adjusted R Squared = -.232)

Lampiran 19. Uji *Duncan* Data L* Variabel Suhu

L

Duncan^{a,b}

Suhu	N	Subset 1
40	9	5.2078
50	9	5.3322
30	9	5.4222
Sig.		.589

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean

Square(Error) = .611.

a. Uses Harmonic Mean
Sample Size = 9.000.

b. Alpha = 0.05.

Lampiran 20. Uji *Duncan* Data L* Variabel Waktu

L

Duncan^{a,b}

Waktu	N	Subset 1
5	9	5.1822
10	9	5.3322
15	9	5.4478
Sig.		.505

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean

Square(Error) = .611.

a. Uses Harmonic Mean
Sample Size = 9.000.

b. Alpha = 0.05.

Lampiran 21. Uji *two way* ANOVA Data a***Tests of Between-Subjects Effects**

Dependent Variable: a

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.606 ^a	8	.201	.407	.902
Intercept	233.966	1	233.966	474.237	.000
Suhu	.628	2	.314	.637	.540
Waktu	.215	2	.107	.217	.807
Suhu * Waktu	.763	4	.191	.387	.815
Error	8.880	18	.493		
Total	244.452	27			
Corrected Total	10.486	26			

a. R Squared = .153 (Adjusted R Squared = -.223)

Lampiran 22. Uji *Duncan* Data a* Variabel Suhu**a**Duncan^{a,b}

Suhu	N	Subset
		1
40	9	-3.1578
50	9	-2.8600
30	9	-2.8133
Sig.		.338

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .493.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = 0.05.

Lampiran 23. Uji *Duncan* Data b* Variabel Waktu**a**Duncan^{a,b}

Waktu	N	Subset 1
5	9	-3.0267
10	9	-2.9844
15	9	-2.8200
Sig.		.563

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .493.

a. Uses Harmonic Mean Sample Size = 9.000.

b. Alpha = 0.05.

Lampiran 24. Uji *two way* ANOVA Data b***Tests of Between-Subjects Effects**

Dependent Variable: b

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	.499 ^a	8	.062	.263	.970
Intercept	3.449	1	3.449	14.560	.001
Suhu	.206	2	.103	.436	.654
Waktu	.095	2	.048	.202	.819
Suhu * Waktu	.197	4	.049	.208	.931
Error	4.264	18	.237		
Total	8.212	27			
Corrected Total	4.763	26			

a. R Squared = .105 (Adjusted R Squared = -.293)

Lampiran 25. Uji *Duncan* Data b* Variabel Suhu**b**Duncan^{a,b}

Suhu	N	Subset 1
50	9	-.4733
40	9	-.3367
30	9	-.2622
Sig.		.396

Means for groups in homogeneous subsets are displayed.

Based on observed means.
The error term is Mean Square(Error) = .237.

a. Uses Harmonic Mean
Sample Size = 9.000.

b. Alpha = 0.05.

Lampiran 26. Uji *Duncan* Data b* Variabel Waktu**b**Duncan^{a,b}

Waktu	N	Subset 1
15	9	-.4011
5	9	-.3978
10	9	-.2733
Sig.		.605

Means for groups in homogeneous subsets are displayed.

Based on observed means.
The error term is Mean Square(Error) = .237.

a. Uses Harmonic Mean
Sample Size = 9.000.

b. Alpha = 0.05.

Lampiran 27. *Effect Summary* Aktivitas Antioksidan

Source	LogWorth	PValue
Suhu*Suhu	5,635	0,00000
Waktu*Waktu	3,794	0,00016
Suhu(30,50)	2,701	0,00199 ^
Suhu*Waktu	1,446	0,03579
Waktu(5,15)	1,197	0,06350 ^

Lampiran 28. *Lack of Fit* Aktivitas Antioksidan

Source	DF	Sum of Squares	Mean Square	F Ratio
Lack Of Fit	3	10,872718	3,62424	1,5627
Pure Error	18	41,747200	2,31929	Prob > F
Total Error	21	52,619918		0,2330
				Max RSq
				0,8326

Lampiran 29. *Summary of Fit* Aktivitas Antioksidan

RSquare	0,78894
RSquare Adj	0,738688
Root Mean Square Error	1,582944
Mean of Response	55,16259
Observations (or Sum Wgts)	27

Lampiran 30. *Parameter Estimates* Aktivitas Antioksidan

Term	Estimate	Std Error	t Ratio	Prob> t
Intercept	59,902963	0,68119	87,94	<,0001
Suhu(30,50)	1,3166667	0,373103	3,53	0,0020
Waktu(5,15)	-0,045	0,373103	-0,12	0,9051
Suhu*Waktu	-0,8925	0,456956	-1,95	0,0643
Suhu*Suhu	-4,147778	0,646234	-6,42	<,0001
Waktu*Waktu	-2,962778	0,646234	-4,58	0,0002

Lampiran 31. *Analysis of Variance* Aktivitas Antioksidan

Source	DF	Sum of Squares	Mean Square	F Ratio
Model	5	196,69280	39,3386	15,6996
Error	21	52,61992	2,5057	Prob > F
C. Total	26	249,31272		<,0001

Lampiran 32. Hasil Plagscan

Similarity Report

PAPER NAME
18.11.0042.docx

WORD COUNT 6377 Words	CHARACTER COUNT 38699 Characters
PAGE COUNT 26 Pages	FILE SIZE 166.2KB
SUBMISSION DATE Sep 9, 2022 3:07 PM GMT+7	REPORT DATE Sep 9, 2022 3:07 PM GMT+7

● **14% Overall Similarity**
The combined total of all matches, including overlapping sources, for each database.

- 12% Internet database
- 4% Publications database
- Crossref database
- Crossref Posted Content database
- 8% Submitted Works database

● **Excluded from Similarity Report**

- Bibliographic material
- Quoted material
- Cited material
- Small Matches (Less than 10 words)

Summary

