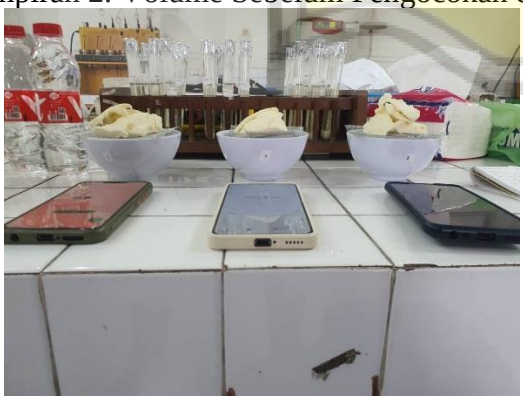
7. LAMPIRAN

Lampiran 1. Kristalisasi ekstrak jahe sambiloto menggunakan kristalisator

Lampiran 2. Volume Sebelum Pengocokan dan Volume Sesudah Pengocokan (*Overrun*)

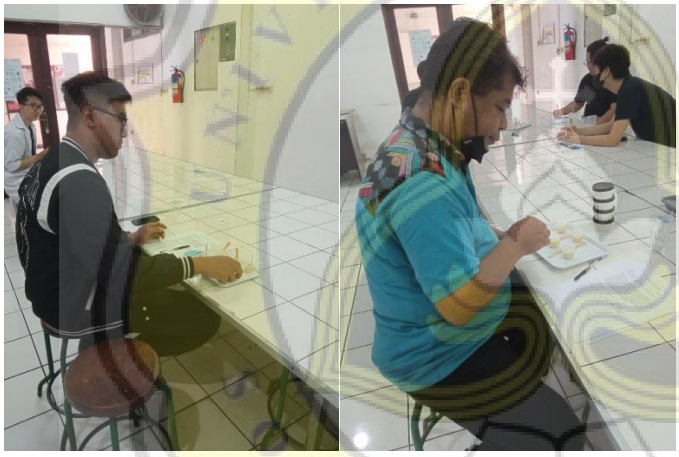


Lampiran 3. Uji *Melting Rate*

Lampiran 4. Sampel Pengujian Viskositas

Lampiran 5. Uji Viskositas dengan Viskometer

Lampiran 6. Sampel Hasil Ekstraksi



Lampiran 7. Uji Sensori

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Overrun	.108	16	.200*	.956	16	.593

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

a. Lilliefors Significance Correction

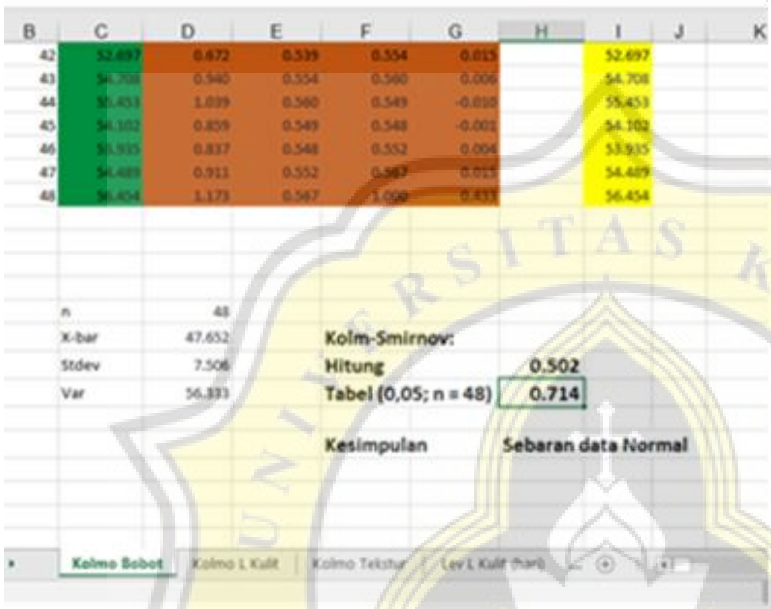
Lampiran 8. Uji Normalitas Data *Overrun*

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Viskositas	.144	48	.014	.942	48	.019

a. Lilliefors Significance Correction

Lampiran 9. Uji Normalitas Data Viskositas



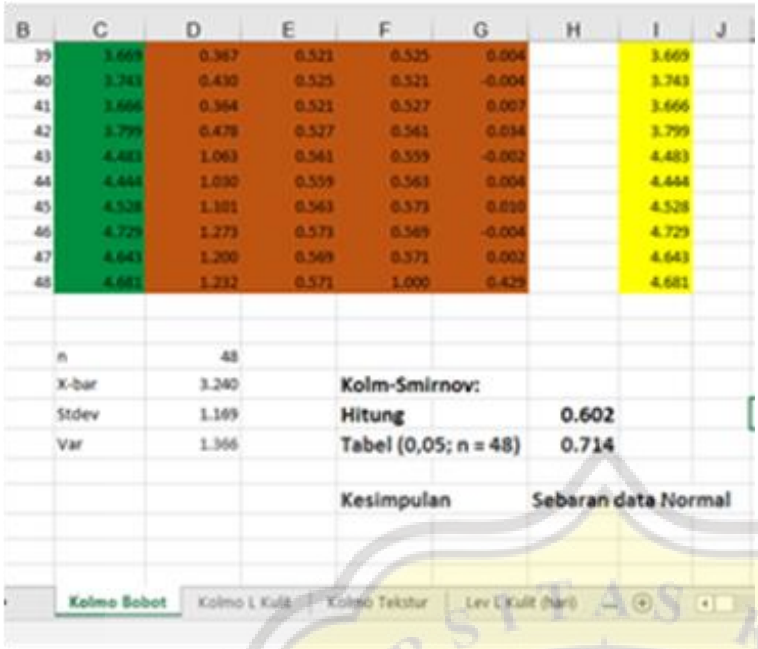
Lampiran 10. Uji Normalitas Manual Data Viskositas

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Antioksidan	.149	48	.009	.912	48	.002

a. Lilliefors Significance Correction

Lampiran 11. Uji Normalitas Data Antioksidan



n	48	
X-bar	3.240	Kolm-Smirnov:
Stdev	1.169	Hitung 0.602
Var	1.366	Tabel (0,05; n = 48) 0.714
		Kesimpulan Sebaran data Normal

Lampiran 12. Uji Normalitas Manual Data Antioksidan

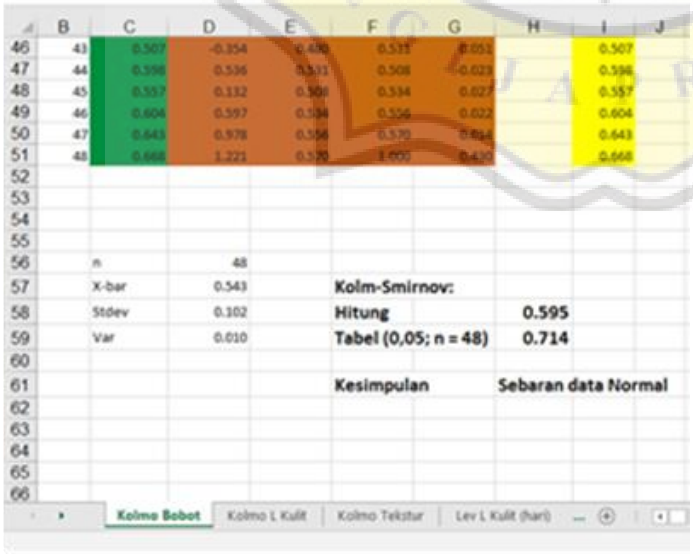
Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Melting_Rate	.096	48	.200*	.946	48	.029

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

a. Lilliefors Significance Correction

Lampiran 13. Uji Normalitas Data *Melting Rate*



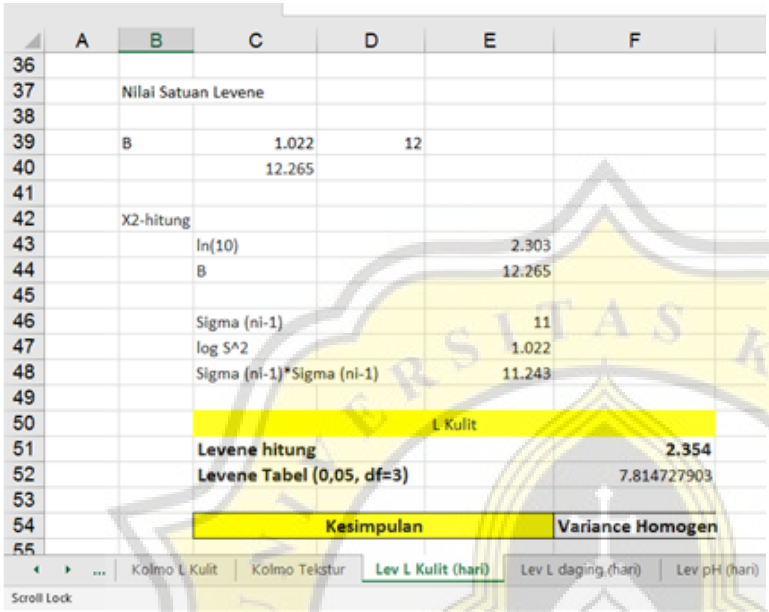
n	48	
X-bar	0.543	Kolm-Smirnov:
Stdev	0.102	Hitung 0.595
Var	0.010	Tabel (0,05; n = 48) 0.714
		Kesimpulan Sebaran data Normal

Lampiran 14. Uji Normalitas Manual Data *Melting Rate*

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Overrun	5.490E+28	7	8	.000

Lampiran 15. Uji Homogenitas Data *Overrun*

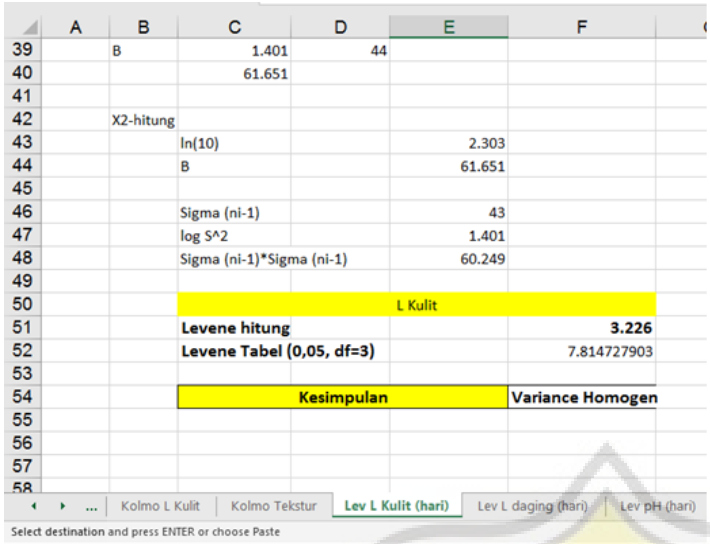


Lampiran 16. Uji Homogenitas Manual Data *Overrun*

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Viskositas	4.953	7	40	.000
Antioksidan	2.055	7	40	.072
Melting_Rate	7.967	7	40	.000

Lampiran 17. Uji Homogenitas Data Viskositas, Antioksidan, dan *Melting Rate*

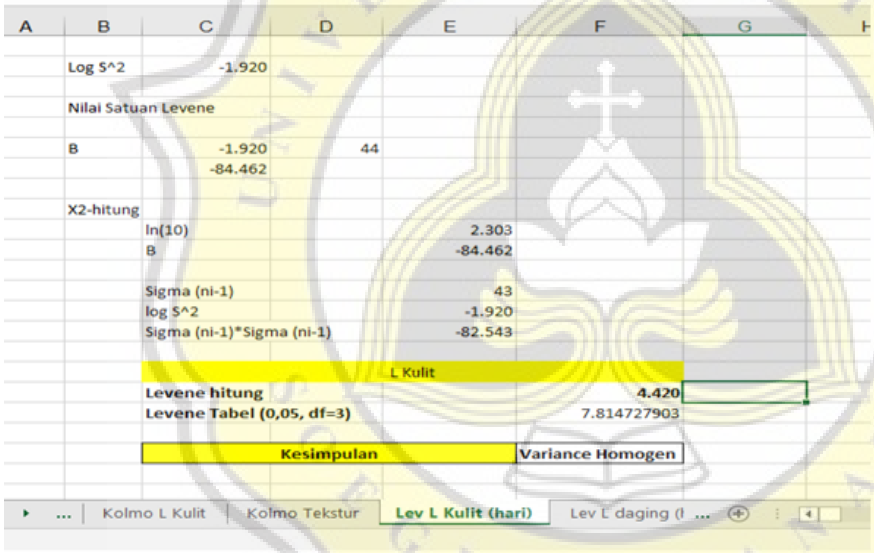


39		B	1.401	44		
40			61.651			
41						
42		X2-hitung				
43			ln(10)		2.303	
44			B		61.651	
45						
46			Sigma (ni-1)		43	
47			log S^2		1.401	
48			Sigma (ni-1)*Sigma (ni-1)		60.249	
49						
50			L Kulit			
51			**Levene hitung**			**3.226**
52			**Levene Tabel (0,05, df=3)**			7.814727903
53						
54			**Kesimpulan**			**Variance Homogen**
55						
56						
57						
58						

Kolmo L Kulit | Kolmo Tekstur | Lev L Kulit (hari) | Lev L daging (hari) | Lev pH (hari)

Select destination and press ENTER or choose Paste

Lampiran 18. Uji Homogenitas Manual Data Viskositas



	Log S^2	-1.920				
	Nilai Satuan Levene					
	B	-1.920	44			
		-84.462				
	X2-hitung					
		ln(10)		2.303		
		B		-84.462		
		Sigma (ni-1)		43		
		log S^2		-1.920		
		Sigma (ni-1)*Sigma (ni-1)		-82.543		
		L Kulit				
		Levene hitung			**4.420**	
		Levene Tabel (0,05, df=3)			7.814727903	
		Kesimpulan			**Variance Homogen**	

... | Kolmo L Kulit | Kolmo Tekstur | Lev L Kulit (hari) | Lev L daging (

Lampiran 19. Uji Homogenitas Manual Data *Melting Rate*

ANOVA

Overrun

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	363.732	7	51.962	14.567	.001
Within Groups	28.537	8	3.567		
Total	392.269	15			

Lampiran 20. Uji *One-Way Anova* Data *Overrun*

Overrun

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
Kontrol Serbuk	2	30.0900			
Kontrol Cair	2	30.0900			
Cair 20 gram	2	34.4050	34.4050		
Cair 30 gram	2		36.7600		
Serbuk 10 gram	2		37.0950	37.0950	
Serbuk 20 gram	2		38.4450	38.4450	
Cair 10 gram	2			41.5700	41.5700
Serbuk 30 gram	2				44.5950
Sig.		.060	.079	.053	.148

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 2.000.

Lampiran 21. Uji *Duncan* Data *Overrun*

ANOVA

Viskositas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	20035805.206	7	2862257.887	54.222	.000
Within Groups	2111502.033	40	52787.551		
Total	22147307.239	47			

Lampiran 22. Uji *One-Way Anova* Data Viskositas

Viskositas

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
Serbuk 10 gram	6	1115.9667			
Kontrol Serbuk	6		2017.6667		
Kontrol Cair	6		2017.6667		
Serbuk 20 gram	6		2034.0000		
Cair 10 gram	6		2292.0000		
Cair 20 gram	6			2896.0000	
Cair 30 gram	6			3010.0000	3010.0000
Serbuk 30 gram	6				3223.6667
Sig.		1.000	.064	.395	.115

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 23. Uji *Duncan* Data Viskositas

ANOVA

Antioksidan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2310.612	7	330.087	405.098	.000
Within Groups	32.593	40	.815		
Total	2343.205	47			

Lampiran 24. Uji *One-Way Anova* Data Antioksidan

Antioksidan

Duncan[a]

		Subset for alpha = 0.05				
Perlakuan	N	1	2	3	4	5
Kontrol Serbuk	6	2.2117				
Kontrol Cair	6	2.2117				
Serbuk 10 gram	6		10.1250			
Cair 10 gram	6			11.7583		
Serbuk 20 gram	6			12.3633		
Cair 20 gram	6				13.8617	
Serbuk 30 gram	6					21.1300
Cair 30 gram	6					22.1467
Sig.		1.000	1.000	.253	1.000	.058

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 25 Uji *Duncan* Data Antioksidan

ANOVA

Melting_Rate

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.087	7	.012	1.069	.401
Within Groups	.465	40	.012		
Total	.551	47			

Lampiran 26. Uji *One-Way Anova* Data *Melting Rate*

Melting_Rate

Duncan[a]

Perlakuan	N	Subset for alpha = 0.05
		1
Cair 20 gram	6	.2453
Serbuk 30 gram	6	.2503
Cair 10 gram	6	.2818
Serbuk 10 gram	6	.2820
Kontrol Serbuk	6	.3395
Kontrol Cair	6	.3395
Serbuk 20 gram	6	.3453
Cair 30 gram	6	.3585
Sig.		.126

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 27. Uji *Duncan* Data *Melting Rate*

Test Statistics[a,b]

	Warna	Rasa	Aroma	Tekstur	Overall
Kruskal-Wallis H	19.642	71.188	36.321	57.399	81.743
df	5	5	5	5	5
Asymp. Sig.	.001	.000	.000	.000	.000

a. Kruskal Wallis Test

b. Grouping Variable: Sampel

Lampiran 28. Uji *Kruskal Wallis* Data Sensori

Test Statistics[a]

	Warna	Rasa	Aroma	Tekstur	Overall
Mann-Whitney U	390.000	313.500	399.500	429.000	312.500
Wilcoxon W	855.000	778.500	864.500	894.000	777.500
Z	-.955	-2.102	-.783	-.330	-2.158
Asymp. Sig. (2-tailed)	.340	.036	.433	.742	.031

a. Grouping Variable: Sampel

Lampiran 29. Uji Mann-Whitney Formulasi 1 dan Formulasi 2

Test Statistics[a]

	Warna	Rasa	Aroma	Tekstur	Overall
Mann-Whitney U	340.000	197.500	392.000	331.000	219.000
Wilcoxon W	805.000	662.500	857.000	796.000	684.000
Z	-1.717	-3.863	-.909	-1.869	-3.602
Asymp. Sig. (2-tailed)	.086	.000	.363	.062	.000

a. Grouping Variable: Sampel

Lampiran 30. Uji Mann-Whitney Formulasi 1 dan Formulasi 3

Test Statistics[a]

	Warna	Rasa	Aroma	Tekstur	Overall
Mann-Whitney U	431.000	166.000	250.500	389.000	174.500
Wilcoxon W	896.000	631.000	715.500	854.000	639.500
Z	-.293	-4.311	-3.093	-.947	-4.273
Asymp. Sig. (2-tailed)	.769	.000	.002	.344	.000

a. Grouping Variable: Sampel

Lampiran 31. Uji Mann-Whitney Formulasi 1 dan Formulasi 4

Test Statistics[a]

	Warna	Rasa	Aroma	Tekstur	Overall
Mann-Whitney U	355.000	88.500	230.000	197.000	98.500
Wilcoxon W	820.000	553.500	695.000	662.000	563.500
Z	-1.472	-5.454	-3.363	-3.889	-5.366
Asymp. Sig. (2-tailed)	.141	.000	.001	.000	.000

a. Grouping Variable: Sampel

Lampiran 32. Uji Mann-Whitney Formulasi 1 dan Formulasi 5

Test Statistics[a]

	Warna	Rasa	Aroma	Tekstur	Overall
Mann-Whitney U	215.000	62.000	151.000	96.000	47.000
Wilcoxon W	680.000	527.000	616.000	561.000	512.000
Z	-3.647	-5.827	-4.586	-5.357	-6.132
Asymp. Sig. (2-tailed)	.000	.000	.000	.000	.000

a. Grouping Variable: Sampel

Lampiran 33. Uji Mann-Whitney Formulasi 1 dan Formulasi 6

Test Statistics[a]

	Warna	Rasa	Aroma	Tekstur	Overall
Mann-Whitney U	388.500	316.000	449.000	341.500	350.500
Wilcoxon W	853.500	781.000	914.000	806.500	815.500
Z	-.982	-2.075	-.016	-1.739	-1.585
Asymp. Sig. (2-tailed)	.326	.038	.988	.082	.113

a. Grouping Variable: Sampel

Lampiran 34. Uji Mann-Whitney Formulasi 2 dan Formulasi 3

Test Statistics[a]

	Warna	Rasa	Aroma	Tekstur	Overall
Mann-Whitney U	375.000	266.500	306.000	405.000	276.500
Wilcoxon W	840.000	731.500	771.000	870.000	741.500
Z	-1.175	-2.810	-2.228	-.710	-2.735
Asymp. Sig. (2-tailed)	.240	.005	.026	.478	.006

a. Grouping Variable: Sampel

Lampiran 35. Uji Mann-Whitney Formulasi 2 dan Formulasi 4

Test Statistics[a]

	Warna	Rasa	Aroma	Tekstur	Overall
Mann-Whitney U	405.000	154.500	276.000	188.500	156.500
Wilcoxon W	870.000	619.500	741.000	653.500	621.500
Z	-.709	-4.501	-2.664	-4.068	-4.521
Asymp. Sig. (2-tailed)	.479	.000	.008	.000	.000

a. Grouping Variable: Sampel

Lampiran 36. Uji Mann-Whitney Formulasi 2 dan Formulasi 5

Test Statistics[a]

	Warna	Rasa	Aroma	Tekstur	Overall
Mann-Whitney U	249.000	102.000	200.000	83.000	72.500
Wilcoxon W	714.000	567.000	665.000	548.000	537.500
Z	-3.142	-5.247	-3.838	-5.573	-5.766
Asymp. Sig. (2-tailed)	.002	.000	.000	.000	.000

a. Grouping Variable: Sampel

Lampiran 37. Uji Mann-Whitney Formulasi 2 dan Formulasi 6

Test Statistics[a]

	Warna	Rasa	Aroma	Tekstur	Overall
Mann-Whitney U	336.000	389.000	295.000	391.000	357.500
Wilcoxon W	801.000	854.000	760.000	856.000	822.500
Z	-1.757	-.942	-2.432	-.932	-1.496
Asymp. Sig. (2-tailed)	.079	.346	.015	.351	.135

a. Grouping Variable: Sampel

Lampiran 38. Uji Mann-Whitney Formulasi 3 dan Formulasi 4

Test Statistics[a]

	Warna	Rasa	Aroma	Tekstur	Overall
Mann-Whitney U	442.500	246.500	256.000	292.500	205.000
Wilcoxon W	907.500	711.500	721.000	757.500	670.000
Z	-.117	-3.134	-2.991	-2.467	-3.843
Asymp. Sig. (2-tailed)	.907	.002	.003	.014	.000

a. Grouping Variable: Sampel

Lampiran 39. Uji Mann-Whitney Formulasi 3 dan Formulasi 5

Test Statistics[a]

	Warna	Rasa	Aroma	Tekstur	Overall
Mann-Whitney U	305.500	161.500	179.000	156.500	96.500
Wilcoxon W	770.500	626.500	644.000	621.500	561.500
Z	-2.273	-4.383	-4.205	-4.484	-5.472
Asymp. Sig. (2-tailed)	.023	.000	.000	.000	.000

a. Grouping Variable: Sampel

Lampiran 40. Uji Mann-Whitney Formulasi 3 dan Formulasi 6

Test Statistics[a]

	Warna	Rasa	Aroma	Tekstur	Overall
Mann-Whitney U	349.000	293.000	396.500	246.000	266.000
Wilcoxon W	814.000	758.000	861.500	711.000	731.000
Z	-1.549	-2.418	-.828	-3.154	-2.987
Asymp. Sig. (2-tailed)	.121	.016	.407	.002	.003

a. Grouping Variable: Sampel

Lampiran 41. Uji Mann-Whitney Formulasi 4 dan Formulasi 5

Test Statistics[a]

	Warna	Rasa	Aroma	Tekstur	Overall
Mann-Whitney U	229.000	186.000	321.500	124.000	132.500
Wilcoxon W	694.000	651.000	786.500	589.000	597.500
Z	-3.396	-4.051	-2.001	-4.954	-5.073
Asymp. Sig. (2-tailed)	.001	.000	.045	.000	.000

a. Grouping Variable: Sampel

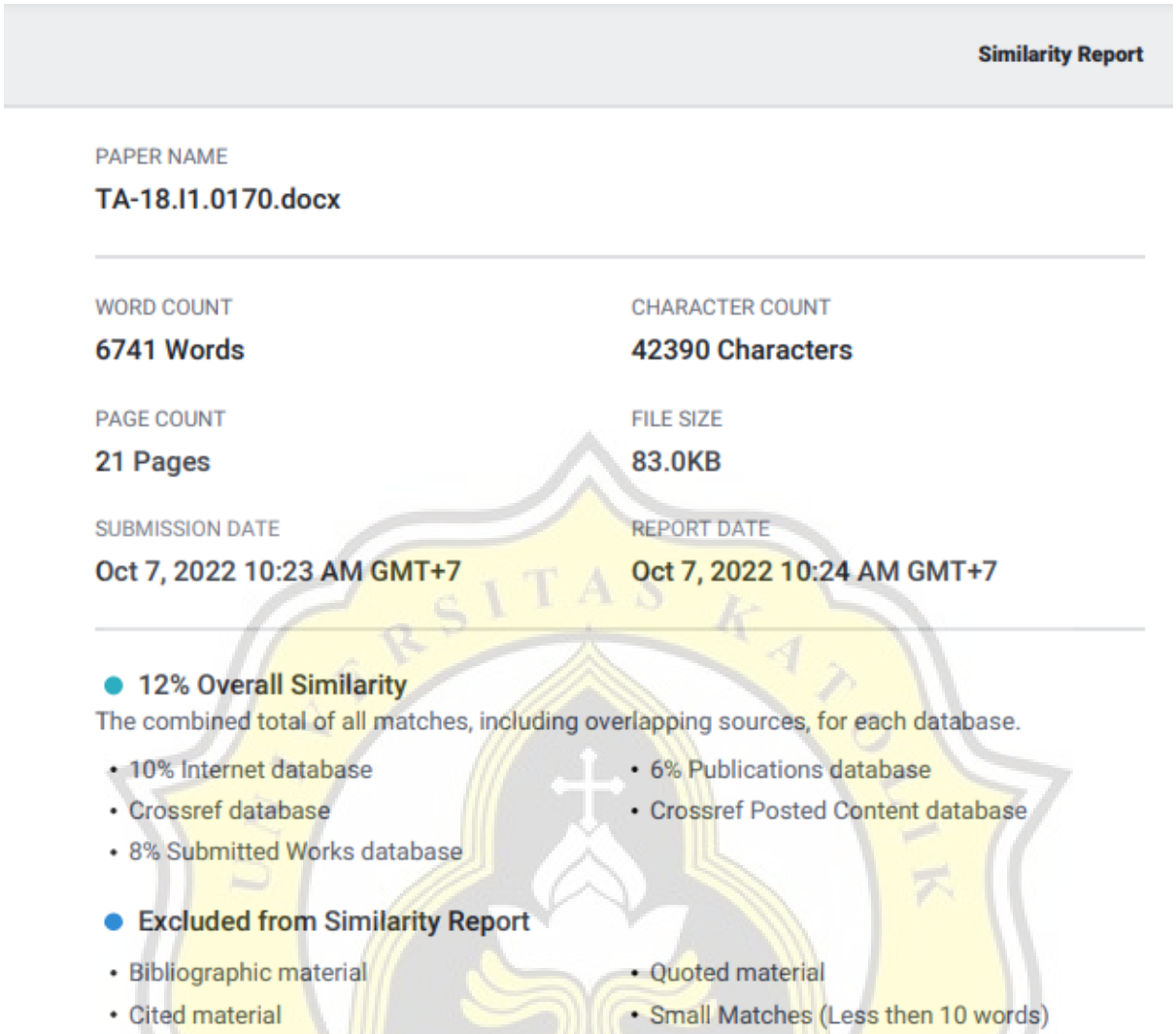
Lampiran 42. Uji Mann-Whitney Formulasi 4 dan Formulasi 6

Test Statistics[a]

	Warna	Rasa	Aroma	Tekstur	Overall
Mann-Whitney U	310.000	332.500	382.500	243.500	304.000
Wilcoxon W	775.000	797.500	847.500	708.500	769.000
Z	-2.187	-1.807	-1.049	-3.207	-2.353
Asymp. Sig. (2-tailed)	.029	.071	.294	.001	.019

a. Grouping Variable: Sampel

Lampiran 43. Uji Mann-Whitney Formulasi 5 dan Formulasi 6



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Lampiran 44. Hasil Scan Antiplagiasi Laporan Tugas Akhir