

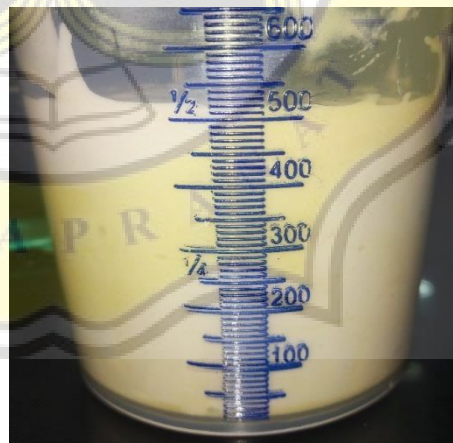
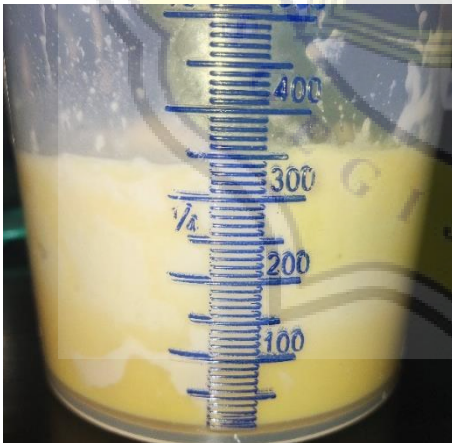
7. LAMPIRAN



Lampiran 1. Bahan Sampel Es Krim Ekstrak Serbuk



Lampiran 2. Bahan Sampel Es Krim Ekstrak Cair



Lampiran 3. Volume Sebelum Pengocokan dan Volume Sesudah Pengocokan (*Overrun*)



Lampiran 4. Uji *Melting Rate*



Lampiran 5. Sampel Pengujian Viskositas



Lampiran 6. Uji Viskositas



Lampiran 7. Sampel Hasil Ekstraksi



Smp1 No.	Abs	K*Abs
2	0.0000	0.0000
3	0.5343	267.15
4	0.5376	268.80
5	0.5272	263.60
6	0.5270	263.50
7	0.5262	263.10
8	0.5249	262.45

Lampiran 8. Hasil Uji Antioksidan



Lampiran 9. Uji Sensori

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Viskositas	.120	48	.079	.941	48	.018

a. Lilliefors Significance Correction

Lampiran 10. Uji Normalitas Data Viskositas

D	C	D	E	F	G	H	I	J
39	66.491	1.479	0.585	0.583	-0.002		66.491	
40	66.219	1.446	0.583	0.581	-0.002		66.219	
41	65.901	1.408	0.581	0.601	0.020		65.901	
42	68.884	1.767	0.601	0.430	-0.171		68.884	
43	44.091	-1.221	0.430	0.436	0.006		44.091	
44	44.900	-1.123	0.436	0.426	-0.009		44.900	
45	43.543	-1.287	0.426	0.459	0.033		43.543	
46	48.311	-0.712	0.459	0.475	0.015		48.311	
47	50.547	-0.442	0.475	0.469	-0.006		50.547	
48	49.709	-0.543	0.469	1.000	0.531		49.709	
n		48						
X-bar		54.219		Kolm-Smirnov:				
Stdev		8.298		Hitung		0.547		
Var		68.859		Tabel (0,05; n = 48)		0.714		
				Kesimpulan		Sebaran data Normal		

Lampiran 11. Uji Normalitas Manual Data Viskositas

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Overrun	.211	16	.055	.909	16	.110

a. Lilliefors Significance Correction

Lampiran 12. Uji Normalitas Data *Overrun*

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Antioksidan	.131	48	.040	.923	48	.004

a. Lilliefors Significance Correction

Lampiran 13. Uji Normalitas Data Antioksidan

40	3.365	0.113	0.506	0.492	-0.014	3.365
41	3.060	-0.136	0.492	0.500	0.008	3.060
42	3.224	-0.002	0.500	0.576	0.076	3.224
43	4.847	1.322	0.576	0.569	-0.006	4.847
44	4.708	1.209	0.569	0.581	0.012	4.708
45	4.971	1.423	0.581	0.575	-0.007	4.971
46	4.826	1.305	0.575	0.555	-0.020	4.826
47	4.391	0.950	0.555	0.579	0.024	4.391
48	4.909	1.373	0.579	1.000	0.421	4.909
n	48					
X-bar	3.227					
Stdev	1.225					
Var	1.501					
		Kolm-Smirnov:				
		Hitung		0.693		
		Tabel (0,05; n = 48)		0.714		
		Kesimpulan		Sebaran data Normal		

Lampiran 14. Uji Normalitas Manual Data Antioksidan

Tests of Normality						
	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
MeltingRate	.310	48	.000	.695	48	.000

a. Lilliefors Significance Correction

Lampiran 15. Uji Normalitas Data *Melting Rate*

40	0.494	-1.638	0.407	0.426	0.019	0.494
41	0.523	-1.298	0.426	0.474	0.048	0.523
42	0.597	-0.449	0.474	0.527	0.053	0.597
43	0.676	0.467	0.527	0.527	0.000	0.676
44	0.676	0.466	0.527	0.537	0.010	0.676
45	0.690	0.635	0.537	0.509	-0.028	0.690
46	0.648	0.148	0.509	0.525	0.017	0.648
47	0.674	0.443	0.525	0.526	0.000	0.674
48	0.674	0.450	0.526	1.000	0.474	0.674
n	48					
X-bar	0.636					
Stdev	0.086					
Var	0.007					
		Kolm-Smirnov:				
		Hitung		0.670		
		Tabel (0,05; n = 48)		0.714		
		Kesimpulan		Sebaran data Normal		

Lampiran 16. Uji Normalitas Manual Data *Melting Rate*

Test of Homogeneity of Variances

Overrun

Levene Statistic	df1	df2	Sig.
5.203E+15	7	8	.000

Lampiran 17. Uji Homogenitas Data *Overrun*

X2-hitung			
In(10)		2.303	
B		17.648	
Sigma (ni-1)		11	
log S^2		1.471	
Sigma (ni-1)*Sigma (ni-1)		16.177	
pH			
Levene hitung		3.386	
Levene Tabel (0,05, df=3)		7.814727903	
Kesimpulan		Variance Homogen	

Lampiran 18. Uji Homogenitas Manual Data *Overrun*

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
Viskositas	6.152	7	40	.000
MeltingRate	11.273	7	40	.000
Antioksidan	3.875	7	40	.003

Lampiran 19. Uji Homogenitas Data Viskositas, Antioksidan, dan *Melting Rate*

X2-hitung			
In(10)		2.303	
B		67.237	
Sigma (ni-1)		43	
log S^2		1.528	
Sigma (ni-1)*Sigma (ni-1)		65.709	
L Kulit			
Levene hitung		3.519	
Levene Tabel (0,05, df=3)		7.814727903	
Kesimpulan		Variance Homogen	

Lampiran 20. Uji Homogenitas Manual Data Viskositas

X2-hitung		
ln(10)	2.303	
B	24.648	
Sigma (ni-1)	43	
log S ²	0.560	
Sigma (ni-1)*Sigma (ni-1)	24.088	
L Kulit		
Levene hitung		1.290
Levene Tabel (0,05, df=3)		7.814727903
Kesimpulan		Variance Homogen

Lampiran 21. Uji Homogenitas Manual Data Antioksidan

X2-hitung		
ln(10)	2.303	
B	-94.184	
Sigma (ni-1)	43	
log S ²	-2.141	
Sigma (ni-1)*Sigma (ni-1)	-92.043	
L Kulit		
Levene hitung		4.929
Levene Tabel (0,05, df=3)		7.814727903
Kesimpulan		Variance Homogen

Lampiran 22. Uji Homogenitas Manual Data *Melting Rate*

ANOVA

Overrun

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2754.614	7	393.516	35.745	.000
Within Groups	88.072	8	11.009		
Total	2842.686	15			

Lampiran 23. Uji *One-Way Anova* Data *Overrun*

Overrun

Duncan^a

Sampel1	N	Subset for alpha = 0.05			
		1	2	3	4
bubuk 0gr	2	30.0900			
cair 0gr	2	30.0900			
bubuk 5gr	2	35.9400			
bubuk 10gr	2	36.3100			
bubuk 20gr	2		48.5250		
cair 20gr	2		54.3750	54.3750	
cair 5gr	2			59.0550	
cair 10gr	2				66.8500
Sig.		.116	.116	.196	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 2.000.

Lampiran 24. Uji *Duncan* Data *Overrun*

ANOVA

Viskositas

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	37181087.65	7	5311583.949	122.344	.000
Within Groups	1736600.833	40	43415.021		
Total	38917688.48	47			

Lampiran 25. Uji *One-Way Anova* Data Viskositas

Viskositas

Duncan^a

Sampel2	N	Subset for alpha = 0.05				
		1	2	3	4	5
bubuk 0gr	6	2017.6667				
cair 0gr	6	2017.6667				
cair 20gr	6	2202.6667				
bubuk 5gr	6		2788.0000			
bubuk 10gr	6			3155.3333		
cair 5gr	6			3270.0000		
bubuk 20gr	6				4084.5000	
cair 10gr	6					4521.0000
Sig.		.154	1.000	.346	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 26. Uji *Duncan* Data Viskositas

ANOVA

Antioksidan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	2499.694	7	357.099	108.001	.000
Within Groups	132.257	40	3.306		
Total	2631.951	47			

Lampiran 27. Uji *One-Way Anova* Data Antioksidan**Antioksidan**Duncan^a

Sampel2	N	Subset for alpha = 0.05			
		1	2	3	4
bubuk 0gr	6	2.2117			
cair 0gr	6	2.2117			
bubuk 5gr	6		8.8367		
cair 5gr	6			11.6950	
cair 10gr	6			12.7150	
bubuk 10gr	6			12.7250	
bubuk 20gr	6				21.8233
cair 20gr	6				22.8383
Sig.		1.000	1.000	.362	.339

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 28 Uji *Duncan* Data Antioksidan**ANOVA**

MeltingRate

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.137	7	.020	2.637	.024
Within Groups	.296	40	.007		
Total	.433	47			

Lampiran 29. Uji *One-Way Anova* Data *Melting Rate*

MeltingRateDuncan^a

Sampel2	N	Subset for alpha = 0.05	
		1	2
bubuk 0gr	6	.3395	
cair 0gr	6	.3395	
cair 10gr	6	.3522	.3522
bubuk 20gr	6	.4272	.4272
cair 20gr	6		.4533
bubuk 10gr	6		.4572
cair 5gr	6		.4602
bubuk 5gr	6		.4612
Sig.		.114	.059

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lampiran 30. Uji *Duncan* Data *Melting Rate***Test Statistics^{a,b}**

	warna	rasa	aroma	tekstur	overall
Chi-Square	53.106	89.815	15.317	33.002	69.146
df	5	5	5	5	5
Asymp. Sig.	.000	.000	.009	.000	.000

a. Kruskal Wallis Test

b. Grouping Variable: sampel

Lampiran 31. Uji *Kruskal Wallis* Data Sensori**Test Statistics^a**

	warna	rasa	aroma	tekstur	overall
Mann-Whitney U	393.000	415.000	408.000	511.000	440.000
Wilcoxon W	954.000	976.000	969.000	1072.000	1001.000
Z	-2.080	-1.709	-1.829	-.442	-1.427
Asymp. Sig. (2-tailed)	.038	.087	.067	.658	.153

a. Grouping Variable: sampel

Lampiran 32. Uji Mann-Whitney Formulasi 1 dan Formulasi 2

Test Statistics^a

	warna	rasa	aroma	tekstur	overall
Mann-Whitney U	296.000	124.500	361.000	433.500	192.000
Wilcoxon W	857.000	685.500	922.000	994.500	753.000
Z	-3.330	-5.495	-2.432	-1.468	-4.710
Asymp. Sig. (2-tailed)	.001	.000	.015	.142	.000

a. Grouping Variable: sampel

Lampiran 33. Uji Mann-Whitney Formulasi 1 dan Formulasi 3

Test Statistics^a

	warna	rasa	aroma	tekstur	overall
Mann-Whitney U	393.000	391.500	445.500	496.500	541.500
Wilcoxon W	954.000	952.500	1006.500	1057.500	1102.500
Z	-2.067	-2.031	-1.333	-.638	-.041
Asymp. Sig. (2-tailed)	.039	.042	.182	.523	.968

a. Grouping Variable: sampel

Lampiran 34. Uji Mann-Whitney Formulasi 1 dan Formulasi 4

Test Statistics^a

	warna	rasa	aroma	tekstur	overall
Mann-Whitney U	515.500	221.000	357.500	350.500	448.500
Wilcoxon W	1076.500	782.000	918.500	911.500	1009.500
Z	-.398	-4.257	-2.509	-2.549	-1.306
Asymp. Sig. (2-tailed)	.691	.000	.012	.011	.191

a. Grouping Variable: sampel

Lampiran 35. Uji Mann-Whitney Formulasi 1 dan Formulasi 5

Test Statistics^a

	warna	rasa	aroma	tekstur	overall
Mann-Whitney U	199.500	77.500	308.500	354.500	129.000
Wilcoxon W	760.500	638.500	869.500	915.500	690.000
Z	-4.585	-6.115	-3.116	-2.508	-5.535
Asymp. Sig. (2-tailed)	.000	.000	.002	.012	.000

a. Grouping Variable: sampel

Lampiran 36. Uji Mann-Whitney Formulasi 1 dan Formulasi 6

Test Statistics^a

	warna	rasa	aroma	tekstur	overall
Mann-Whitney U	398.000	149.000	469.500	467.000	240.500
Wilcoxon W	959.000	710.000	1030.500	1028.000	801.500
Z	-2.010	-5.217	-1.006	-1.031	-4.183
Asymp. Sig. (2-tailed)	.044	.000	.314	.302	.000

a. Grouping Variable: sampel

Lampiran 37. Uji Mann-Whitney Formulasi 2 dan Formulasi 3

Test Statistics^a

	warna	rasa	aroma	tekstur	overall
Mann-Whitney U	270.000	537.500	496.500	454.500	425.500
Wilcoxon W	831.000	1098.500	1057.500	1015.500	986.500
Z	-3.709	-.095	-.656	-1.198	-1.633
Asymp. Sig. (2-tailed)	.000	.924	.512	.231	.102

a. Grouping Variable: sampel

Lampiran 38. Uji Mann-Whitney Formulasi 2 dan Formulasi 4

Test Statistics^a

	warna	rasa	aroma	tekstur	overall
Mann-Whitney U	431.000	282.500	492.000	308.500	526.500
Wilcoxon W	992.000	843.500	1053.000	869.500	1087.500
Z	-1.558	-3.509	-.717	-3.102	-.249
Asymp. Sig. (2-tailed)	.119	.000	.473	.002	.804

a. Grouping Variable: sampel

Lampiran 39. Uji Mann-Whitney Formulasi 2 dan Formulasi 5

Test Statistics^a

	warna	rasa	aroma	tekstur	overall
Mann-Whitney U	272.500	86.500	402.000	380.500	151.000
Wilcoxon W	833.500	647.500	963.000	941.500	712.000
Z	-3.721	-6.009	-1.899	-2.183	-5.312
Asymp. Sig. (2-tailed)	.000	.000	.058	.029	.000

a. Grouping Variable: sampel

Lampiran 40. Uji Mann-Whitney Formulasi 2 dan Formulasi 6

Test Statistics^a

	warna	rasa	aroma	tekstur	overall
Mann-Whitney U	202.500	146.500	427.500	358.000	171.000
Wilcoxon W	763.500	707.500	988.500	919.000	732.000
Z	-4.526	-5.261	-1.572	-2.511	-4.998
Asymp. Sig. (2-tailed)	.000	.000	.116	.012	.000

a. Grouping Variable: sampel

Lampiran 41. Uji Mann-Whitney Formulasi 3 dan Formulasi 4

Test Statistics^a

	warna	rasa	aroma	tekstur	overall
Mann-Whitney U	323.000	345.000	515.500	236.500	242.000
Wilcoxon W	884.000	906.000	1076.500	797.500	803.000
Z	-2.964	-2.683	-.390	-4.064	-4.083
Asymp. Sig. (2-tailed)	.003	.007	.696	.000	.000

a. Grouping Variable: sampel

Lampiran 42. Uji Mann-Whitney Formulasi 3 dan Formulasi 5

Test Statistics^a

	warna	rasa	aroma	tekstur	overall
Mann-Whitney U	422.500	386.500	475.000	444.500	427.500
Wilcoxon W	983.500	947.500	1036.000	1005.500	988.500
Z	-1.656	-2.163	-.922	-1.336	-1.647
Asymp. Sig. (2-tailed)	.098	.031	.357	.182	.100

a. Grouping Variable: sampel

Lampiran 43. Uji Mann-Whitney Formulasi 3 dan Formulasi 6

Test Statistics^a

	warna	rasa	aroma	tekstur	overall
Mann-Whitney U	381.000	274.500	442.500	385.000	438.500
Wilcoxon W	942.000	835.500	1003.500	946.000	999.500
Z	-2.201	-3.633	-1.398	-2.128	-1.483
Asymp. Sig. (2-tailed)	.028	.000	.162	.033	.138

a. Grouping Variable: sampel

Lampiran 44. Uji Mann-Whitney Formulasi 4 dan Formulasi 5

Test Statistics^a

	warna	rasa	aroma	tekstur	overall
Mann-Whitney U	130.500	94.500	364.500	273.500	118.500
Wilcoxon W	691.500	655.500	925.500	834.500	679.500
Z	-5.450	-5.916	-2.403	-3.603	-5.703
Asymp. Sig. (2-tailed)	.000	.000	.016	.000	.000

a. Grouping Variable: sampel

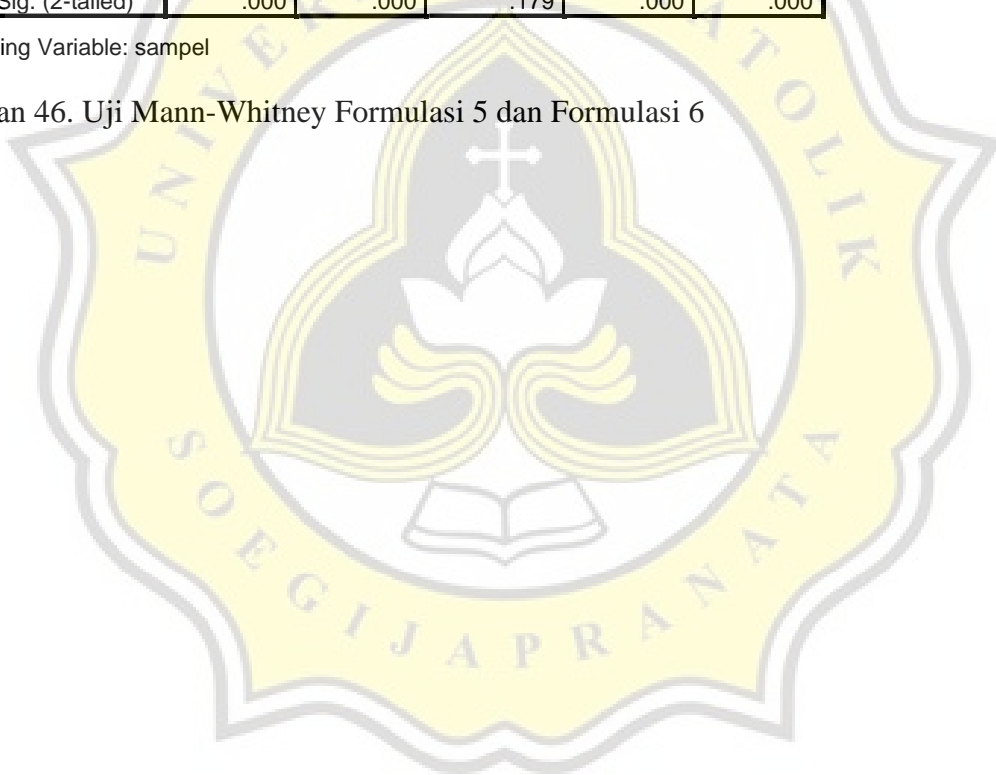
Lampiran 45. Uji Mann-Whitney Formulasi 4 dan Formulasi 6

Test Statistics^a

	warna	rasa	aroma	tekstur	overall
Mann-Whitney U	221.500	212.500	444.000	170.500	172.500
Wilcoxon W	782.500	773.500	1005.000	731.500	733.500
Z	-4.300	-4.440	-1.344	-4.911	-5.026
Asymp. Sig. (2-tailed)	.000	.000	.179	.000	.000

a. Grouping Variable: sampel

Lampiran 46. Uji Mann-Whitney Formulasi 5 dan Formulasi 6



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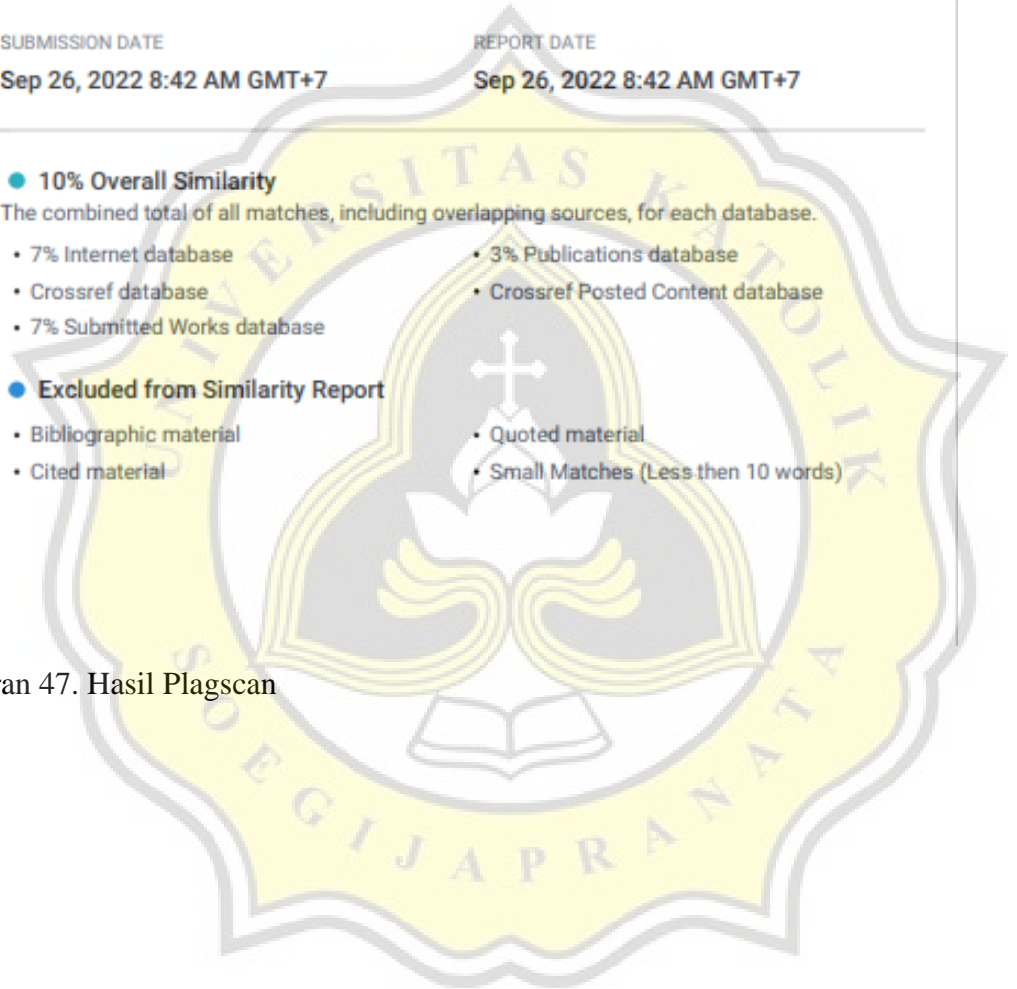
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Lampiran 47. Hasil Plagscan