

7. LAMPIRAN

Lampiran 1. Normalitas Flakes

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
kadar_air	,131	42	,068	,936	42	,021
kadar_abu	,136	42	,050	,915	42	,004
kadar_lemak	,135	42	,054	,896	42	,001
kadar_protein	,102	42	,200*	,954	42	,086
serat_kasar	,123	42	,111	,970	42	,319
carbohydrate_by_difference	,114	42	,200*	,962	42	,180
antioksidan	,103	42	,200*	,933	42	,017
hardness	,135	42	,052	,912	42	,003
L	,104	42	,200*	,933	42	,016
a	,115	42	,189	,948	42	,056
b	,111	42	,200*	,935	42	,019
kemampuan_pembasahan	,136	42	,050	,920	42	,006

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

a. Lilliefors Significance Correction

Lampiran 2. Homogenitas Flakes

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
kadar_air	2,359	6	35	,051
kadar_abu	,488	6	35	,813
kadar_lemak	1,426	6	35	,233
kadar_protein	2,320	6	35	,054
serat_kasar	2,069	6	35	,082
carbohydrate_by_difference	1,934	6	35	,103
antioksidan	1,355	6	35	,260
hardness	1,740	6	35	,141
L	1,642	6	35	,165
a	1,841	6	35	,119
b	2,114	6	35	,076
kemampuan_pembasahan	,472	6	35	,824

Lampiran 3.Anova Flakes

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
kadar_air	Between Groups	161,940	6	26,990	697,476	,000
	Within Groups	1,354	35	,039		
	Total	163,294	41			
kadar_abu	Between Groups	4,365	6	,728	259,823	,000
	Within Groups	,098	35	,003		
	Total	4,463	41			
kadar_lemak	Between Groups	25,496	6	4,249	323,261	,000
	Within Groups	,460	35	,013		
	Total	25,956	41			
kadar_protein	Between Groups	1,741	6	,290	773,444	,000
	Within Groups	,013	35	,000		
	Total	1,754	41			
serat_kasar	Between Groups	85,824	6	14,304	50,093	,000
	Within Groups	9,994	35	,286		
	Total	95,818	41			
carbohydrate_by_difference	Between Groups	1,424	6	,237	17,777	,000
	Within Groups	,467	35	,013		
	Total	1,892	41			
antioksidan	Between Groups	1211,311	6	201,885	16983,086	,000
	Within Groups	,416	35	,012		
	Total	1211,727	41			
hardness	Between Groups	700,632	6	116,772	187606,520	,000
	Within Groups	,022	35	,001		
	Total	700,654	41			
L	Between Groups	1267,095	6	211,183	15061,286	,000
	Within Groups	,491	35	,014		
	Total	1267,586	41			
a	Between Groups	1,994	6	,332	956,199	,000
	Within Groups	,012	35	,000		
	Total	2,006	41			
b	Between Groups	380,902	6	63,484	3745,038	,000
	Within Groups	,593	35	,017		
	Total	381,496	41			
kemampuan_pembasahan	Between Groups	271,733	6	45,289	10887,011	,000
	Within Groups	,146	35	,004		
	Total	271,879	41			

Lampiran 4. Kadar Air

perlakuan	N	Subset for alpha = 0.05						
		1	2	3	4	5	6	7
beras merah sangrai 50% + kacang hijau sangrai 50%	6	1,4333						
beras merah giling 100%	6		2,6167					
beras merah sangrai 100%	6			3,3533				
kacang hijau sangrai 100%	6				4,6017			
kontrol	6					5,5517		
beras merah giling 50% + kacang hijau giling 50%	6						6,4183	
kacang hijau giling 100%	6							7,3167
Sig.		1,000	1,000	1,000	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lampiran 5. Kadar Abu

perlakuan	N	Subset for alpha = 0.05					
		1	2	3	4	5	6
beras merah sangrai 100%	6	1,6015					
kontrol	6	1,6528					
beras merah giling 100%	6		1,7972				
beras merah giling 50% + kacang hijau giling 50%	6			1,8966			
kacang hijau sangrai 100%	6				2,1593		
beras merah sangrai 50% + kacang hijau sangrai 50%	6					2,3018	
kacang hijau giling 100%	6	,102	1,000	1,000	1,000	1,000	2,5296
Sig.							1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lampiran 6.Kadar Lemak

kadar_lemak

Duncan^a

perlakuan	N	Subset for alpha = 0.05				
		1	2	3	4	5
beras merah giling 50% + kacang hijau giling 50%	6	,3250				
beras merah giling 100%	6		,5167			
kacang hijau sangrai 100%	6			1,3833		
beras merah sangrai 100%	6				1,6000	
kacang hijau giling 100%	6					1,7167
beras merah sangrai 50% + kacang hijau sangrai 50%	6					2,4333
kontrol	6		1,000	1,000	1,000	,087
Sig.			1,000	1,000	1,000	,485

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lampiran 7.Kadar Protein

kadar_protein

Duncan^a

perlakuan	N	Subset for alpha = 0.05						
		1	2	3	4	5	6	7
beras merah sangrai 100%	6	,2161						
beras merah giling 100%	6		,3965					
beras merah sangrai 50% + kacang hijau sangrai 50%	6			,5134				
beras merah giling 50% + kacang hijau giling 50%	6				,5590			
kacang hijau giling 100%	6					,6470		
kacang hijau sangrai 100%	6						,7570	
kontrol	6		1,000	1,000	1,000	1,000	1,000	,8711
Sig.			1,000	1,000	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lampiran 8.Kadar Serat Kasar

serat_kasar

Duncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
beras merah sangrai 100%	6	9,6067			
beras merah giling 50% + kacang hijau giling 50%	6		10,9117		
beras merah sangrai 50% + kacang hijau sangrai 50%	6		11,2517		
beras merah giling 100%	6			12,4817	
kontrol	6			12,6983	
kacang hijau sangrai 100%	6			13,0317	
kacang hijau giling 100%	6				14,2483
Sig.		1,000	,278	,100	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lampiran 9.Carbohydrate by Difference

carbohydrate_by_difference

Duncan^a

perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
kacang hijau sangrai 100%	6	8,8576			
kontrol	6	8,9165	8,9165		
beras merah giling 50% + kacang hijau giling 50%	6		9,0349	9,0349	
beras merah sangrai 50% + kacang hijau sangrai 50%	6			9,0908	
kacang hijau giling 100%	6			9,1106	
beras merah giling 100%	6				9,3600
beras merah sangrai 100%	6				9,3704
Sig.		,383	,085	,293	,877

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lampiran 10. Kadar Antioksidan

perlakuan	N	Subset for alpha = 0.05						
		1	2	3	4	5	6	7
beras merah sangrai 50% + kacang hijau sangrai 50%	6	22,4175						
beras merah giling 50% + kacang hijau giling 50%	6		26,5063					
kacang hijau giling 100%	6			28,4713				
kontrol	6				30,6173			
beras merah giling 100%	6					32,2200		
kacang hijau sangrai 100%	6						34,5675	
beras merah sangrai 100%	6							40,3678
Sig.		1,000	1,000	1,000	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lampiran 11. Hardness Flakes

perlakuan	N	Subset for alpha = 0.05						
		1	2	3	4	5	6	7
beras merah sangrai 100%	6	20,5593						
kacang hijau giling 100%	6		22,0396					
kontrol	6			24,0569				
beras merah sangrai 50% + kacang hijau sangrai 50%	6				26,2454			
beras merah giling 100%	6					28,2535		
kacang hijau sangrai 100%	6						30,5563	
beras merah giling 50% + kacang hijau giling 50%	6							32,5211
Sig.		1,000	1,000	1,000	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lampiran 12. Nilai L*

L

Duncan^a

perlakuan	N	Subset for alpha = 0.05						
		1	2	3	4	5	6	7
beras merah sangrai 100%	6	50,5133						
beras merah giling 50% + kacang hijau giling 50%	6		54,4075					
beras merah sangrai 50% + kacang hijau sangrai 50%	6			56,3250				
beras merah giling 100% kacang hijau sangrai 100%	6				58,3350			
kacang hijau giling 100%	6					60,7333		
kontrol	6						62,5600	
Sig.		1,000	1,000	1,000	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lampiran 13.Nilai a*

Duncan^a

perlakuan	N	Subset for alpha = 0.05						
		1	2	3	4	5	6	7
kacang hijau sangrai 100%	6	,2673						
kacang hijau giling 100%	6		,4642					
beras merah giling 50% + kacang hijau giling 50%	6			,5283				
kontrol	6				,6255			
beras merah sangrai 50% + kacang hijau sangrai 50%	6					,7271		
beras merah giling 100%	6						,8556	
beras merah sangrai 100%	6							,9503
Sig.		1,000	1,000	1,000	1,000	1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lampiran 14.Nilai b*

b

Duncan^a

perlakuan	N	Subset for alpha = 0.05						
		1	2	3	4	5	6	7
beras merah sangrai 100%	6	6,7483						
beras merah giling 100%	6		9,6883					
beras merah sangrai 50% + kacang hijau sangrai 50%	6			10,2950				
kacang hijau sangrai 100%	6				11,3983			
beras merah giling 50% + kacang hijau giling 50%	6					12,3917		
kontrol	6						14,7267	
kacang hijau giling 100%	6	1,000	1,000	1,000	1,000	1,000	1,000	16,5183
Sig.								1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lampiran 15.Kemampuan Pembasahan

kemampuan_pembasahan

Duncan^a

perlakuan	N	Subset for alpha = 0.05						
		1	2	3	4	5	6	7
kacang hijau sangrai 100%	6	20,8752						
beras merah sangrai 50% + kacang hijau sangrai 50%	6		22,7262					
kacang hijau giling 100%	6			24,9063				
beras merah giling 50% + kacang hijau giling 50%	6				25,7312			
beras merah sangrai 100%	6					26,2181		
beras merah giling 100%	6	1,000	1,000	1,000	1,000	1,000	1,000	28,8987
kontrol	6						27,5266	
Sig.								1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6,000.

Lampiran 16. Normalitas Sensori

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
warna	,127	210	,000	,917	210	,000
tekstur	,126	210	,000	,918	210	,000
rasa	,126	210	,000	,918	210	,000
overall	,126	210	,000	,918	210	,000

a. Lilliefors Significance Correction

Lampiran 17. Kruskal Wallis

Test Statistics^{a,b}

	warna	tekstur	rasa	overall
Chi-Square	8,765	19,789	2,621	10,832
df	6	6	6	6
Asymp. Sig.	,187	,003	,855	,094

a. Kruskal Wallis Test

b. Grouping Variable: perlakuan

Lampiran 18. Kruskal Wallis Tekstur

Test Statistics^{a,b}

	tekstur
Chi-Square	19,789
df	6
Asymp. Sig.	,003

a. Kruskal Wallis Test

b. Grouping Variable:
perlakuan

Lampiran 19. Mann Whitney Tekstur Flakes Beras Merah Sangrai vs Flakes Kacang Hijau Sangrai

Test Statistics^a

	tekstur
Mann-Whitney U	254,500
Wilcoxon W	719,500
Z	-2,933
Asymp. Sig. (2-tailed)	,003

a. Grouping Variable: perlakuan

Lampiran 20. *Mann Whitney Flakes* Beras Merah Sangrai vs *Flakes* Beras Merah + Kacang Hijau Sangrai (1 : 1)

Test Statistics^a

	tekstur
Mann-Whitney U	361,500
Wilcoxon W	826,500
Z	-1,324
Asymp. Sig. (2-tailed)	,186

a. Grouping Variable: perlakuan

Lampiran 21. *Mann Whitney Flakes* Beras Merah Sangrai vs *Flakes* Beras Merah Non sangrai

Test Statistics^a

	tekstur
Mann-Whitney U	442,000
Wilcoxon W	907,000
Z	-,120
Asymp. Sig. (2-tailed)	,904

a. Grouping Variable: perlakuan

Lampiran 22. *Mann Whitney Tekstur Flakes Beras Merah Sangrai vs Flakes Kacang Hijau Non sangrai*

Test Statistics^a

	tekstur
Mann-Whitney U	314,500
Wilcoxon W	779,500
Z	-2,031
Asymp. Sig. (2-tailed)	,042

a. Grouping Variable: perlakuan

Lampiran 23. *Mann Whitney Tekstur Flakes Beras Merah Sangrai vs Flakes Beras Merah + Kacang Hijau Non sangrai (1 : 1)*

Test Statistics^a

	tekstur
Mann-Whitney U	285,500
Wilcoxon W	750,500
Z	-2,460
Asymp. Sig. (2-tailed)	,014

a. Grouping Variable: perlakuan

Lampiran 24. *Mann Whitney Tekstur Flakes Beras Merah Sangrai vs Flakes Kontrol*

Test Statistics^a

	tekstur
Mann-Whitney U	368,000
Wilcoxon W	833,000
Z	-1,233
Asymp. Sig. (2-tailed)	,218

a. Grouping Variable: perlakuan

Lampiran 25. *Mann Whitney Tekstur Flakes Kacang Hijau Sangrai vs Flakes Beras Merah + Kacang Hijau Sangrai (1 : 1)*

Test Statistics^a

	tekstur
Mann-Whitney U	370,000
Wilcoxon W	835,000
Z	-1,198
Asymp. Sig. (2-tailed)	,231

a. Grouping Variable: perlakuan

Lampiran 26. *Mann Whitney Tekstur Flakes Kacang Hijau Sangrai vs Flakes Beras Merah Non sangrai*

Test Statistics^a

	tekstur
Mann-Whitney U	267,000
Wilcoxon W	732,000
Z	-2,748
Asymp. Sig. (2-tailed)	,006

a. Grouping Variable: perlakuan

Lampiran 27. *Mann Whitney Tekstur Flakes Kacang Hijau Sangrai vs Flakes Kacang Hijau Non sangrai*

Test Statistics^a

	tekstur
Mann-Whitney U	395,000
Wilcoxon W	860,000
Z	-,826
Asymp. Sig. (2-tailed)	,409

a. Grouping Variable: perlakuan

Lampiran 28. *Mann Whitney Tekstur Flakes Kacang Hijau Sangrai vs Flakes Beras Merah + Kacang Hijau Non sangrai (1 : 1)*

Test Statistics^a

	tekstur
Mann-Whitney U	430,000
Wilcoxon W	895,000
Z	-,301
Asymp. Sig. (2-tailed)	,764

a. Grouping Variable: perlakuan

Lampiran 29. *Mann Whitney Tekstur Flakes Kacang Hijau Sangrai vs Flakes Kontrol*

Test Statistics^a

	tekstur
Mann-Whitney U	253,500
Wilcoxon W	718,500
Z	-2,942
Asymp. Sig. (2-tailed)	,003

a. Grouping Variable: perlakuan

Lampiran 30. *Mann Whitney Tekstur Flakes Beras Merah + Kacang Hijau Sangrai (1 : 1) vs Flakes Beras Merah Non sangrai*

Test Statistics^a

	tekstur
Mann-Whitney U	373,000
Wilcoxon W	838,000
Z	-1,154
Asymp. Sig. (2-tailed)	,249

a. Grouping Variable: perlakuan

Lampiran 31. *Mann Whitney* Tekstur *Flakes* Beras Merah + Kacang Hijau Sangrai (1 : 1) vs *Flakes* Kacang Hijau Non sangrai

Test Statistics^a

	tekstur
Mann-Whitney U	421,500
Wilcoxon W	886,500
Z	-,426
Asymp. Sig. (2-tailed)	,670

a. Grouping Variable: perlakuan

Lampiran 32. *Mann Whitney* Tekstur *Flakes* Beras Merah + Kacang Hijau Sangrai (1 : 1) vs *Flakes* Beras Merah + Kacang Hijau Non sangrai (1 : 1)

Test Statistics^a

	tekstur
Mann-Whitney U	366,000
Wilcoxon W	831,000
Z	-1,259
Asymp. Sig. (2-tailed)	,208

a. Grouping Variable: perlakuan

Lampiran 33. *Mann Whitney* Tekstur *Flakes* Beras Merah + Kacang Hijau Sangrai (1 : 1) vs *Flakes* Kontrol

Test Statistics^a

	tekstur
Mann-Whitney U	333,000
Wilcoxon W	798,000
Z	-1,764
Asymp. Sig. (2-tailed)	,078

a. Grouping Variable: perlakuan

Lampiran 34. *Mann Whitney* Tekstur *Flakes* Beras Merah Non sangrai vs *Flakes* Kacang Hijau Non sangrai

Test Statistics^a

	tekstur
Mann-Whitney U	327,500
Wilcoxon W	792,500
Z	-1,834
Asymp. Sig. (2-tailed)	,067

a. Grouping Variable: perlakuan

Lampiran 35. *Mann Whitney* Tekstur *Flakes* Beras Merah Non sangrai vs *Flakes* Beras Merah + Kacang Hijau Non sangrai (1 : 1)

Test Statistics^a

	tekstur
Mann-Whitney U	290,000
Wilcoxon W	755,000
Z	-2,392
Asymp. Sig. (2-tailed)	,017

a. Grouping Variable: perlakuan

Lampiran 36. *Mann Whitney* Tekstur *Flakes* Beras Merah Non sangrai vs *Flakes* Kontrol

Test Statistics^a

	tekstur
Mann-Whitney U	365,500
Wilcoxon W	830,500
Z	-1,271
Asymp. Sig. (2-tailed)	,204

a. Grouping Variable: perlakuan

Lampiran 37. *Mann Whitney* Tekstur *Flakes* Kacang Hijau Non sangrai vs *Flakes* Beras Merah + Kacang Hijau Non sangrai (1 : 1)

Test Statistics^a

	tekstur
Mann-Whitney U	392,000
Wilcoxon W	857,000
Z	-,870
Asymp. Sig. (2-tailed)	,384

a. Grouping Variable: perlakuan

Lampiran 38. *Mann Whitney* Tekstur *Flakes* Kacang Hijau Non sangrai vs *Flakes* Kontrol

Test Statistics^a

	tekstur
Mann-Whitney U	293,500
Wilcoxon W	758,500
Z	-2,348
Asymp. Sig. (2-tailed)	,019

a. Grouping Variable: perlakuan

Lampiran 39. *Mann Whitney* Tekstur *Flakes* Beras Merah + Kacang Hijau Non sangrai (1 : 1) vs *Flakes* Kontrol

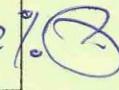
Test Statistics^a

	tekstur
Mann-Whitney U	276,500
Wilcoxon W	741,500
Z	-2,621
Asymp. Sig. (2-tailed)	,009

a. Grouping Variable: perlakuan

Lampiran 40. Formulir Scan Anti Plagiarisme

FORMULIR SCAN ANTI PLAGIARISME

3,62% 

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Fak. / Prodi berupa (TESIS, TUGAS AKHIR, SKRIPSI, SUMMARY, LAPORAN KERJA PRAKTEK)	: Teknologi Pangan NIM: 11.92.0249
dengan judul	Karakteristik Pisico-Kimiai Dan Sensori
Flakes Berkulit	Tepung Beras Merah (Oryza sativa) Dan
Tepung ketan	Hijau (Phaseolus radiatus L.)
Semarang, Petugas,	Yang Menyerahkan,
	Dosen Pembimbing, 
NB. Laporan hasil scan terlampir	
untuk Yang bersangkutan *	

