

7. LAMPIRAN

Lampiran 1. *Worksheet Uji Rating Hedonik Biskuit*

Worksheet Uji Rating Hedonik

Tanggal Pengujian :

Jenis Sampel : Biskuit Non-Gluten

Identifikasi Sampel	Kode
Biskuit dengan perbandingan tepung oat 100% dan tepung jali 0%	A
Biskuit dengan perbandingan tepung oat 60% dan tepung jali 40%	B
Biskuit dengan perbandingan tepung oat 50% dan tepung jali 50%	C
Biskuit dengan perbandingan tepung oat 40% dan tepung jali 60%	D
Biskuit dengan perbandingan tepung oat 0% dan tepung jali 100%	E

Kode Kombinasi Urutan Penyajian

A, B, C, D, E = 1

B, A, C, D, E = 2

C, D, B, E, A = 3

Penyajian :

Booth	Panelis	Kode Sampel urutan penyajian
I	1, 4, 7, 10, 13, 16, 19, 22, 25, 28	521, 452, 363, 224, 195 ¹
II	2, 5, 8, 11, 14, 17, 20, 23, 26, 29	452, 521, 363, 224, 195 ²
III	3, 6, 9, 12, 15, 18, 21, 24, 27, 30	363, 224, 452, 195, 521 ³

Rekap Kode Sampel :

Sampel A	521
Sampel B	452
Sampel C	363
Sampel D	224
Sampel E	195

Lampiran 2. *Scoresheet Uji Rating Hedonik Biskuit****Scoresheet Uji Rating Hedonik*****Uji Ranking Hedonik**

Panelis : Tanggal :

Nama/NIM :

Produk : Biskuit Non-Gluten

Instruksi

Di hadapan Anda terdapat lima sampel biskuit non-gluten. Tulislah terlebih dahulu kode sampel secara berurutan dari kiri ke kanan. Cicipilah sampel secara berurutan dari kiri ke kanan. Setiap sebelum berganti sampel, Anda diminta untuk berkumur-kumur terlebih dahulu dengan air putih yang ada di hadapan Anda. Setelah mencicipi semua sampel, Anda boleh mengulang sesering yang Anda perlukan. Nilai setiap atribut sampel dari yang disukai sampai yang tidak disukai dengan menulis angka :

- 1 = sangat tidak suka (*dislike extremely*)
- 2 = agak tidak suka (*dislike slightly*)
- 3 = netral (*neither like or dislike*)
- 4 = agak suka (*like slightly*)
- 5 = sangat suka (*like extremely*)

Sampel	Tekstur	Rasa	Warna	Aroma	Overall

Pernyataan Persetujuan Panelis

Persetujuan Panelis Pengujian Organoleptik

Saya yang bertanda tangan dibawah ini,

Nama :

NIM :

No. Telp/ID Line :

Bersama dengan ini menyatakan kesediaannya untuk melakukan pengujian organoleptik biskuit non-gluten dengan menggunakan perbandingan tepung oat dan jali yang berbeda sebagai panelis dalam pemeriksaan atribut tekstur, rasa, warna, aroma, dan *overall*.

Demikian surat persetujuan ini saya tanda tangani tanpa ada paksaan dari pihak manapun dan agar dipergunakan sebagaimana mestinya.

Mengetahui,
Penguji

Semarang, 2021
Panelis

(.....)

(.....)

UNIVERSITAS KATOLIK
SUEGIJAPRANATA

Lampiran 3. Hasil Pengolahan SPSS

➤ Uji Normalitas

Uji Normalitas Manual			
Parameter	Kolmogorov-Smirnov Hitung	Kolmogorov-Smirnov Tabel (0,05, n=15)	Kesimpulan
Tekstur	0,627	1,278	Kolmogorov-Smirnov Hitung < Kolmogorov-Smirnov Tabel Sebaran Data Normal
Kadar Air	0,341	1,278	Kolmogorov-Smirnov Hitung < Kolmogorov-Smirnov Tabel Sebaran Data Normal

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
tekstur	.274	15	.004	.854	15	.020
air	.222	15	.045	.851	15	.018
abu	.144	15	.200*	.936	15	.330
lemak	.112	15	.200*	.957	15	.645
serat	.227	15	.036	.895	15	.080
protein	.134	15	.200*	.957	15	.633

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

a. Lilliefors Significance Correction

➤ Uji Homogenitas

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
tekstur	Based on Mean	.951	4	10	.474
	Based on Median	.187	4	10	.940
	Based on Median and with adjusted df	.187	4	7.558	.938
	Based on trimmed mean	.855	4	10	.522
air	Based on Mean	6.107	4	10	.009
	Based on Median	.674	4	10	.625
	Based on Median and with adjusted df	.674	4	2.819	.656
	Based on trimmed mean	5.231	4	10	.016
abu	Based on Mean	1.326	4	10	.326
	Based on Median	.271	4	10	.890
	Based on Median and with adjusted df	.271	4	4.617	.884
	Based on trimmed mean	1.213	4	10	.364
lemak	Based on Mean	1.576	4	10	.255
	Based on Median	.851	4	10	.524
	Based on Median and with adjusted df	.851	4	6.176	.540
	Based on trimmed mean	1.526	4	10	.267
serat	Based on Mean	4.322	4	10	.028
	Based on Median	.455	4	10	.767
	Based on Median and with adjusted df	.455	4	6.451	.767
	Based on trimmed mean	3.629	4	10	.045
protein	Based on Mean	3.071	4	10	.068
	Based on Median	.351	4	10	.837
	Based on Median and with adjusted df	.351	4	4.136	.833
	Based on trimmed mean	2.640	4	10	.097

Uji Homogenitas Manual

Parameter	Levene Hitung	Levene Tabel (0,05, df 4)	Kesimpulan
Kadar Air	1,804	7,814	Levene Hitung < Levene Tabel maka Variance Homogen

Kadar Serat	0,137	7,814	Levene Hitung < Levene Tabel maka Variance Homogen
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➤ Uji ANOVA

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
tekstur	Between Groups	1548906.838	4	387226.710	2076.874	.000
	Within Groups	1864.469	10	186.447		
	Total	1550771.307	14			
air	Between Groups	.222	4	.055	.337	.847
	Within Groups	1.645	10	.165		
	Total	1.867	14			
abu	Between Groups	.008	4	.002	.130	.968
	Within Groups	.150	10	.015		
	Total	.158	14			
lemak	Between Groups	.000	4	.000	.120	.972
	Within Groups	.001	10	.000		
	Total	.001	14			
serat	Between Groups	47.446	4	11.861	10.339	.001
	Within Groups	11.473	10	1.147		
	Total	58.918	14			
protein	Between Groups	11.433	4	2.858	40.113	.000
	Within Groups	.713	10	.071		
	Total	12.146	14			

➤ Uji Duncan

○ Uji Duncan Tekstur

tekstur

Duncan^a

formulasi	N	Subset for alpha = 0.05			
		1	2	3	4
F1	3	571.5667			
F2	3		821.8400		
F3	3			968.1617	
F4	3			988.6867	
F5	3				1549.4333
Sig.		1.000	1.000	.095	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

- Uji Duncan Serat

serat

Duncan^a

formulasi	N	Subset for alpha = 0.05	
		1	2
F5	3	2.2609	
F4	3	3.2495	
F3	3	3.5889	
F2	3		6.1253
F1	3		6.9072
Sig.		.178	.392

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

- Uji Student New Keuls

- Uji SNK Kadar Air

air

Student-Newman-Keuls^a

formulasi	N	Subset for alpha = 0.05
		1
F5	3	5.6403
F4	3	5.7428
F3	3	5.8450
F2	3	5.8880
F1	3	5.9943
Sig.		.818

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

○ Uji SNK Kadar Abu

abu

Student-Newman-Keuls^a

formulasi	N	Subset for alpha = 0.05
		1
F1	3	1.7606
F2	3	1.7837
F3	3	1.7922
F5	3	1.7958
F4	3	1.8312
Sig.		.951

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

○ Uji SNK Kadar Lemak

lemak

Student-Newman-Keuls^a

formulasi	N	Subset for alpha = 0.05
		1
F5	3	.2267
F3	3	.2268
F2	3	.2282
F1	3	.2301
F4	3	.2305
Sig.		.984

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

○ Uji SNK Kadar Protein

protein

Student-Newman-Keuls^a

formulasi	N	Subset for alpha = 0.05			
		1	2	3	4
F1	3	9.0408			
F2	3	9.2696			
F3	3		9.8303		
F4	3			10.5627	
F5	3				11.4199
Sig.		.319	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

- **Analisa Organoleptik**
 - **Parameter Tekstur**

Uji Kruskal Wallis

Test Statistics^{a,b}

tekstur	
Kruskal-Wallis H	2.793
df	4
Asymp. Sig.	.593

- a. Kruskal Wallis Test
- b. Grouping Variable:
formulasi

- **Parameter Rasa**

Uji Kruskal Wallis Rasa

Test Statistics^{a,b}

rasa	
Kruskal-Wallis H	15.211
df	4
Asymp. Sig.	.004

- a. Kruskal Wallis Test
- b. Grouping Variable:
formulasi

Uji Mann Whitney Rasa

F1 vs F2

Test Statistics^a

rasa	
Mann-Whitney U	279.500
Wilcoxon W	744.500
Z	-2.609
Asymp. Sig. (2-tailed)	.009

- a. Grouping Variable:
formulasi

F1 vs F3

Test Statistics^a

rasa	
Mann-Whitney U	330.500
Wilcoxon W	795.500
Z	-1.825
Asymp. Sig. (2-tailed)	.068

a. Grouping Variable:
formulasi

F1 vs F4

Test Statistics^a

rasa	
Mann-Whitney U	411.000
Wilcoxon W	876.000
Z	-.597
Asymp. Sig. (2-tailed)	.550

a. Grouping Variable:
formulasi

F1 vs F5

Test Statistics^a

rasa	
Mann-Whitney U	250.500
Wilcoxon W	715.500
Z	-3.021
Asymp. Sig. (2-tailed)	.003

a. Grouping Variable:
formulasi

F2 vs F3

Test Statistics^a

rasa	
Mann-Whitney U	404.000
Wilcoxon W	869.000
Z	-.708
Asymp. Sig. (2-tailed)	.479

a. Grouping Variable:
formulasi

F2 vs F4

Test Statistics^a

rasa	
Mann-Whitney U	319.000
Wilcoxon W	784.000
Z	-2.017
Asymp. Sig. (2-tailed)	.044

a. Grouping Variable:
formulasi

F2 vs F5

Test Statistics^a

rasa	
Mann-Whitney U	375.500
Wilcoxon W	840.500
Z	-1.137
Asymp. Sig. (2-tailed)	.256

a. Grouping Variable:
formulasi

F3 vs F4

Test Statistics^a

rasa	
Mann-Whitney U	364.500
Wilcoxon W	829.500
Z	-1.308
Asymp. Sig. (2-tailed)	.191

a. Grouping Variable:
formulasi

F3 vs F5

Test Statistics^a

rasa	
Mann-Whitney U	334.000
Wilcoxon W	799.000
Z	-1.769
Asymp. Sig. (2-tailed)	.077

a. Grouping Variable:
formulasi

F4 vs F5

Test Statistics^a

rasa	
Mann-Whitney U	267.500
Wilcoxon W	732.500
Z	-2.770
Asymp. Sig. (2-tailed)	.006

a. Grouping Variable:
formulasi

➤ **Parameter Warna**

Uji Kruskal Wallis

Test Statistics^{a,b}

warna	
Kruskal-Wallis H	13.449
df	4
Asymp. Sig.	.009

a. Kruskal Wallis Test

b. Grouping Variable:
formulasi

Uji Mann Whitney Warna

F1 vs F2

Test Statistics^a

	warna
Mann-Whitney U	415.000
Wilcoxon W	880.000
Z	-.545
Asymp. Sig. (2-tailed)	.586

a. Grouping Variable:
formulasi

F1 vs F3

Test Statistics^a

	warna
Mann-Whitney U	301.500
Wilcoxon W	766.500
Z	-2.267
Asymp. Sig. (2-tailed)	.023

a. Grouping Variable:
formulasi

F1 vs F4

Test Statistics^a

	warna
Mann-Whitney U	357.000
Wilcoxon W	822.000
Z	-1.437
Asymp. Sig. (2-tailed)	.151

a. Grouping Variable:
formulasi

F1 vs F5

Test Statistics^a

	warna
Mann-Whitney U	254.000
Wilcoxon W	719.000
Z	-3.017
Asymp. Sig. (2-tailed)	.003

a. Grouping Variable:
formulasi

F2 vs F3

Test Statistics^a

	warna
Mann-Whitney U	321.000
Wilcoxon W	786.000
Z	-1.979
Asymp. Sig. (2-tailed)	.048

a. Grouping Variable:
formulasi

F2 vs F4

Test Statistics^a

	warna
Mann-Whitney U	387.500
Wilcoxon W	852.500
Z	-.979
Asymp. Sig. (2-tailed)	.328

a. Grouping Variable:
formulasi

F2 vs F5

Test Statistics^a

	warna
Mann-Whitney U	270.500
Wilcoxon W	735.500
Z	-2.803
Asymp. Sig. (2-tailed)	.005

a. Grouping Variable:
formulasi

F3 vs F4

Test Statistics^a

	warna
Mann-Whitney U	379.500
Wilcoxon W	844.500
Z	-1.076
Asymp. Sig. (2-tailed)	.282

a. Grouping Variable:
formulasi

F3 vs F5

Test Statistics^a

	warna
Mann-Whitney U	427.500
Wilcoxon W	892.500
Z	-.344
Asymp. Sig. (2-tailed)	.731

a. Grouping Variable:
formulasi

F4 vs F5

Test Statistics^a

	warna
Mann-Whitney U	338.000
Wilcoxon W	803.000
Z	-1.740
Asymp. Sig. (2-tailed)	.082

a. Grouping Variable:
formulasi

➤ Parameter Aroma

Uji Kruskal Wallis

Test Statistics^{a,b}

aroma	
Kruskal-Wallis H	14.634
df	4
Asymp. Sig.	.006

a. Kruskal Wallis Test

b. Grouping Variable:
formulasi

Uji Mann Whitney Aroma

F1 vs F2

Test Statistics^a

aroma	
Mann-Whitney U	337.000
Wilcoxon W	802.000
Z	-1.749
Asymp. Sig. (2-tailed)	.080

a. Grouping Variable:
formulasi

F1 vs F3

Test Statistics^a

aroma	
Mann-Whitney U	356.000
Wilcoxon W	821.000
Z	-1.459
Asymp. Sig. (2-tailed)	.144

a. Grouping Variable:
formulasi

F1 vs F4

Test Statistics^a

aroma	
Mann-Whitney U	331.500
Wilcoxon W	796.500
Z	-1.832
Asymp. Sig. (2-tailed)	.067

a. Grouping Variable:
formulasi

F1 vs F5

Test Statistics^a

	aroma
Mann-Whitney U	224.500
Wilcoxon W	689.500
Z	-3.436
Asymp. Sig. (2-tailed)	.001

a. Grouping Variable:
formulasi

F2 vs F3

Test Statistics^a

	aroma
Mann-Whitney U	431.000
Wilcoxon W	896.000
Z	-.295
Asymp. Sig. (2-tailed)	.768

a. Grouping Variable:
formulasi

F2 vs F4

Test Statistics^a

	aroma
Mann-Whitney U	438.000
Wilcoxon W	903.000
Z	-.186
Asymp. Sig. (2-tailed)	.853

a. Grouping Variable:
formulasi

F2 vs F5

Test Statistics^a

	aroma
Mann-Whitney U	299.000
Wilcoxon W	764.000
Z	-2.314
Asymp. Sig. (2-tailed)	.021

a. Grouping Variable:
formulasi

F3 vs F4

Test Statistics^a

aroma	
Mann-Whitney U	420.500
Wilcoxon W	885.500
Z	-.455
Asymp. Sig. (2-tailed)	.649

a. Grouping Variable:
formulasi

F3 vs F5

Test Statistics^a

aroma	
Mann-Whitney U	287.500
Wilcoxon W	752.500
Z	-2.480
Asymp. Sig. (2-tailed)	.013

a. Grouping Variable:
formulasi

F4 vs F5

Test Statistics^a

aroma	
Mann-Whitney U	315.000
Wilcoxon W	780.000
Z	-2.061
Asymp. Sig. (2-tailed)	.039

a. Grouping Variable:
formulasi

➤ Parameter Keseluruhan (*Overall*)

Uji Kruskal Wallis

Test Statistics^{a,b}

overall	
Kruskal-Wallis H	17.000
df	4
Asymp. Sig.	.002

a. Kruskal Wallis Test

b. Grouping Variable:
formulasi

Uji Mann Whitney Overall

F1 vs F2

Test Statistics^a

	overall
Mann-Whitney U	326.000
Wilcoxon W	791.000
Z	-1.948
Asymp. Sig. (2-tailed)	.051

a. Grouping Variable:
formulasi

F1 vs F3

Test Statistics^a

	overall
Mann-Whitney U	318.000
Wilcoxon W	783.000
Z	-2.031
Asymp. Sig. (2-tailed)	.042

a. Grouping Variable:
formulasi

F1 vs F4

Test Statistics^a

	overall
Mann-Whitney U	378.000
Wilcoxon W	843.000
Z	-1.115
Asymp. Sig. (2-tailed)	.265

a. Grouping Variable:
formulasi

F1 vs F5

Test Statistics^a

	overall
Mann-Whitney U	209.000
Wilcoxon W	674.000
Z	-3.676
Asymp. Sig. (2-tailed)	.000

a. Grouping Variable:
formulasi

F2 vs F3

Test Statistics^a

	overall
Mann-Whitney U	428.000
Wilcoxon W	893.000
Z	-.341
Asymp. Sig. (2-tailed)	.733

a. Grouping Variable:
formulasi

F2 vs F4

Test Statistics^a

	overall
Mann-Whitney U	408.000
Wilcoxon W	873.000
Z	-.654
Asymp. Sig. (2-tailed)	.513

a. Grouping Variable:
formulasi

F2 vs F5

Test Statistics^a

	overall
Mann-Whitney U	303.500
Wilcoxon W	768.500
Z	-2.240
Asymp. Sig. (2-tailed)	.025

a. Grouping Variable:
formulasi

F3 vs F4

Test Statistics^a

	overall
Mann-Whitney U	388.000
Wilcoxon W	853.000
Z	-.953
Asymp. Sig. (2-tailed)	.341

a. Grouping Variable:
formulasi

F3 vs F5

Test Statistics^a

	overall
Mann-Whitney U	305.000
Wilcoxon W	770.000
Z	-2.220
Asymp. Sig. (2-tailed)	.026

a. Grouping Variable:
formulasi

F4 vs F5

Test Statistics^a

	overall
Mann-Whitney U	260.500
Wilcoxon W	725.500
Z	-2.882
Asymp. Sig. (2-tailed)	.004

a. Grouping Variable:
formulasi

Lampiran 4. Foto



(a)

(b)

Gambar 13. Tepung *Oat* (a) dan Tepung Jali (b)

(Sumber : Dokumentasi Penulis)



Gambar 14. Uji *Hardness* Biskuit Non-Gluten
(Sumber : Dokumentasi Penulis)



Gambar 15. Beberapa Panelis Saat Melakukan Uji Oranoleptik
(Sumber : Dokumentasi Penulis)

Lampiran 5. Hasil Plagiasi

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