

Lampiran 1.1 Formulir Uji Organoleptik

UJI HEDONIK

Nama Panelis :
Hari/Tgl uji :
Nama Produk : Abon ikan kembung

Petunjuk Pengisian : Dihadapan anda sudah tersaji 4 sampel produk. Anda diminta untuk memberikan penilaian terhadap warna, aroma, rasa, dan tekstur produk secara keseluruhan.

1. Minumlah air mineral terlebih dahulu.
2. Cicipi sampel yang disediakan satu per satu.
3. Berikan penilaian dengan tanda *checklist* (✓) pada pernyataan yang sesuai penilaian anda.
4. Anda TIDAK BOLEH MEMBANDINGKAN sampel.
5. Penilaian tiap sampel BOLEH SAMA.
6. Gunakan air mineral sebagai penetral tiap berpindah sampel.

Deskripsi	Kode Sampel			
	803	713	425	639
Warna				
Sangat Tidak Suka				
Tidak Suka				
Agak Suka				
Suka				
Sangat Suka				
Aroma				
Sangat Tidak Suka				
Tidak Suka				
Agak Suka				
Suka				
Sangat Suka				
Rasa				
Sangat Tidak Suka				
Tidak Suka				
Agak Suka				
Suka				
Sangat Suka				
Tekstur				
Sangat Tidak Suka				
Tidak Suka				
Agak Suka				
Suka				
Sangat Suka				

Lampiran 1.2 Surat Pernyataan Bersedia Menjadi Panelis

LEMBAR PERSETUJUAN RESPONDEN

Saya yang bertandatangan di bawah ini :

Nama :

Umur :

No. HP :

Saya yang bertandatangan di bawah ini menyatakan bersedia dan tidak keberatan menjadi responden dalam penelitian yang dilakukan oleh Ardelia Nur Fauziyah Putri (NIM : 211101027) Mahasiswa Program Studi Ilmu Gizi, Fakultas Kesehatan, Universitas Muhammadiyah Gresik dengan judul penelitian “Karakteristik Kimia dan Organoleptik Abon Ikan Kembung dengan Penambahan Jantung Pisang”. Adapun data yang didapat digunakan untuk menyelesaikan tugas akhir skripsi.

Demikian pernyataan ini saya buat dengan sukarela tanpa paksaan dari pihak manapun dan kiranya dapat dipergunakan sebagaimana mestinya.

Gresik, _____ 2025

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Lampiran 1.3 Output SPSS Uji Kruskal Wallis Organoleptik Warna

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Warna	140	3.34	.871	1	5
Perlakuan	140	1.50	1.122	0	3

Ranks

	Perlakuan	N	Mean Rank
Warna	F0	35	80.00
	F1	35	78.04
	F2	35	72.36
	F3	35	51.60
	Total	140	

Test Statistics^{a,b}

	Warna
Chi-Square	12.313
Df	3
Asymp. Sig.	.006

a. Kruskal Wallis Test

b. Grouping Variable: Perlakuan

Lampiran 1.4 Output SPSS Uji Mann Whitney Organoleptik Warna

F0 vs F1

Ranks				
	Perlakuan	N	Mean Rank	Sum of Ranks
	F0	35	36.40	1274.00
Warna	F1	35	34.60	1211.00
	Total	70		

Test Statistics ^a	
	Warna
Mann-Whitney U	581.000
Wilcoxon W	1211.000
Z	-.401
Asymp. Sig. (2-tailed)	.688

a. Grouping Variable:
Perlakuan

F0 vs F2

Ranks				
	Perlakuan	N	Mean Rank	Sum of Ranks
	F0	35	37.61	1316.50
Warna	F2	35	33.39	1168.50
	Total	70		

Test Statistics ^a	
	Warna
Mann-Whitney U	538.500
Wilcoxon W	1168.500
Z	-.931
Asymp. Sig. (2-tailed)	.352

a. Grouping Variable:
Perlakuan

Output SPSS Uji Mann Whitney Organoleptik Warna

F0 vs F3

Ranks				
	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	F0	35	41.99	1469.50
	F3	35	29.01	1015.50
	Total	70		

Test Statistics^a

	Warna
Mann-Whitney U	385.500
Wilcoxon W	1015.500
Z	-2.792
Asymp. Sig. (2-tailed)	.005

a. Grouping Variable:
Perlakuan

F1 vs F2

Ranks				
	Perlakuan	N	Mean Rank	Sum of Ranks
Warna	F1	35	37.04	1296.50
	F2	35	33.96	1188.50
	Total	70		

Test Statistics^a

	Warna
Mann-Whitney U	558.500
Wilcoxon W	1188.500
Z	-.699
Asymp. Sig. (2-tailed)	.484

a. Grouping Variable:
Perlakuan

Output SPSS Uji Mann Whitney Organoleptik Warna

F1 vs F3

Ranks				
	Perlakuan	N	Mean Rank	Sum of Ranks
	F1	35	42.40	1484.00
Warna	F3	35	28.60	1001.00
	Total	70		

Test Statistics^a

	Warna
Mann-Whitney U	371.000
Wilcoxon W	1001.000
Z	-3.034
Asymp. Sig. (2-tailed)	.002

a. Grouping Variable:
Perlakuan

F2 vs F3

Ranks				
	Perlakuan	N	Mean Rank	Sum of Ranks
	F2	35	41.01	1435.50
Warna	F3	35	29.99	1049.50
	Total	70		

Test Statistics^a

	Warna
Mann-Whitney U	419.500
Wilcoxon W	1049.500
Z	-2.427
Asymp. Sig. (2-tailed)	.015

a. Grouping Variable:
Perlakuan

Lampiran 1.5 Output SPSS Nilai Mean Uji Organoleptik Warna

F0

Statistics

Warna		
N	Valid	35
	Missing	0
Mean		3.54
Median		4.00
Std. Deviation		1.010
Minimum		1
Maximum		5

Warna				
	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 1	1	2.9	2.9	2.9
2	5	14.3	14.3	17.1
3	8	22.9	22.9	40.0
4	16	45.7	45.7	85.7
5	5	14.3	14.3	100.0
Total	35	100.0	100.0	

F1

Statistics

Warna		
N	Valid	35
	Missing	0
Mean		3.51
Median		4.00
Std. Deviation		.702
Minimum		2
Maximum		5

Warna				
	Frequency	Percent	Valid Percent	Cumulative Percent
Valid 2	3	8.6	8.6	8.6
3	12	34.3	34.3	42.9
4	19	54.3	54.3	97.1
5	1	2.9	2.9	100.0
Total	35	100.0	100.0	

Output SPSS Nilai Mean Uji Organoleptik Warna

F2

Statistics

Warna		
N	Valid	35
	Missing	0
Mean		3.40
Median		3.00
Std. Deviation		.736
Minimum		2
Maximum		5

Warna				
	Frequency	Percent	Valid Percent	Cumulative Percent
2	4	11.4	11.4	11.4
3	14	40.0	40.0	51.4
Valid 4	16	45.7	45.7	97.1
5	1	2.9	2.9	100.0
Total	35	100.0	100.0	

F3

Statistics

Warna		
N	Valid	35
	Missing	0
Mean		2.91
Median		3.00
Std. Deviation		.887
Minimum		1
Maximum		5

Warna				
	Frequency	Percent	Valid Percent	Cumulative Percent
1	2	5.7	5.7	5.7
2	8	22.9	22.9	28.6
Valid 3	17	48.6	48.6	77.1
4	7	20.0	20.0	97.1
5	1	2.9	2.9	100.0
Total	35	100.0	100.0	

Lampiran 1.6 Output SPSS Uji Kruskal Wallis Organoleptik Aroma

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Aroma	140	3.24	.920	1	5
Perlakuan	140	1.50	1.122	0	3

Ranks

	Perlakuan	N	Mean Rank
Aroma	F0	35	66.36
	F1	35	85.49
	F2	35	75.77
	F3	35	54.39
	Total	140	

Test Statistics^{a,b}

	Aroma
Chi-Square	12.505
Df	3
Asymp. Sig.	.006

a. Kruskal Wallis Test

b. Grouping Variable: Perlakuan

Lampiran 1.7 Output SPSS Uji Mann Whitney Organoleptik Aroma

F0 vs F1

Ranks				
	Perlakuan	N	Mean Rank	Sum of Ranks
Aroma	F0	35	31.13	1089.50
	F1	35	39.87	1395.50
	Total	70		

Test Statistics ^a	
	Aroma
Mann-Whitney U	459.500
Wilcoxon W	1089.500
Z	-1.890
Asymp. Sig. (2-tailed)	.059

a. Grouping Variable:
Perlakuan

F0 vs F2

Ranks				
	Perlakuan	N	Mean Rank	Sum of Ranks
Aroma	F0	35	33.16	1160.50
	F2	35	37.84	1324.50
	Total	70		

Test Statistics ^a	
	Aroma
Mann-Whitney U	530.500
Wilcoxon W	1160.500
Z	-1.011
Asymp. Sig. (2-tailed)	.312

a. Grouping Variable:
Perlakuan

Output SPSS Uji Mann Whitney Organoleptik Aroma

F0 vs F3

Ranks				
	Perlakuan	N	Mean Rank	Sum of Ranks
Aroma	F0	35	38.07	1332.50
	F3	35	32.93	1152.50
	Total	70		

Test Statistics^a

	Aroma
Mann-Whitney U	522.500
Wilcoxon W	1152.500
Z	-1.116
Asymp. Sig. (2-tailed)	.264

a. Grouping Variable:
Perlakuan

F1 vs F2

Ranks				
	Perlakuan	N	Mean Rank	Sum of Ranks
Aroma	F1	35	38.17	1336.00
	F2	35	32.83	1149.00
	Total	70		

Test Statistics^a

	Aroma
Mann-Whitney U	519.000
Wilcoxon W	1149.000
Z	-1.193
Asymp. Sig. (2-tailed)	.233

a. Grouping Variable:
Perlakuan

Output SPSS Uji Mann Whitney Organoleptik Aroma

F1 vs F3

Ranks				
	Perlakuan	N	Mean Rank	Sum of Ranks
Aroma	F1	35	43.44	1520.50
	F3	35	27.56	964.50
	Total	70		

Test Statistics^a

	Aroma
Mann-Whitney U	334.500
Wilcoxon W	964.500
Z	-3.459
Asymp. Sig. (2-tailed)	.001

a. Grouping Variable:
Perlakuan

F2 vs F3

Ranks				
	Perlakuan	N	Mean Rank	Sum of Ranks
Aroma	F2	35	41.10	1438.50
	F3	35	29.90	1046.50
	Total	70		

Test Statistics^a

	Aroma
Mann-Whitney U	416.500
Wilcoxon W	1046.500
Z	-2.452
Asymp. Sig. (2-tailed)	.014

a. Grouping Variable:
Perlakuan

Lampiran 1.8 Output SPSS Nilai Mean Uji Organoleptik Aroma

F0

Statistics

Aroma		
N	Valid	35
	Missing	0
Mean		3.17
Median		3.00
Std. Deviation		1.071
Minimum		1
Maximum		5

Aroma				
	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	2.9	2.9	2.9
	2	25.7	25.7	28.6
	3	37.1	37.1	65.7
	4	20.0	20.0	85.7
	5	14.3	14.3	100.0
	Total	35	100.0	100.0

F1

Statistics

Aroma		
N	Valid	35
	Missing	0
Mean		3.57
Median		4.00
Std. Deviation		.778
Minimum		2
Maximum		5

Aroma				
	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	2	11.4	11.4	11.4
	3	25.7	25.7	37.1
	4	57.1	57.1	94.3
	5	5.7	5.7	100.0
	Total	35	100.0	100.0

Output SPSS Nilai Mean Uji Organoleptik Aroma

F2

Statistics

Aroma		
N	Valid	35
	Missing	0
Mean		3.37
Median		3.00
Std. Deviation		.808
Minimum		2
Maximum		5

Aroma				
	Frequency	Percent	Valid Percent	Cumulative Percent
2	5	14.3	14.3	14.3
3	14	40.0	40.0	54.3
Valid 4	14	40.0	40.0	94.3
5	2	5.7	5.7	100.0
Total	35	100.0	100.0	

F3

Statistics

Aroma		
N	Valid	35
	Missing	0
Mean		2.86
Median		3.00
Std. Deviation		.879
Minimum		1
Maximum		5

Aroma				
	Frequency	Percent	Valid Percent	Cumulative Percent
1	2	5.7	5.7	5.7
2	9	25.7	25.7	31.4
Valid 3	17	48.6	48.6	80.0
4	6	17.1	17.1	97.1
5	1	2.9	2.9	100.0
Total	35	100.0	100.0	

Lampiran 1.9 Output SPSS Uji Kruskal Wallis Organoleptik Rasa

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Rasa	140	3.10	.939	1	5
Perlakuan	140	1.50	1.122	0	3

Ranks

	Perlakuan	N	Mean Rank
Rasa	F0	35	64.36
	F1	35	80.56
	F2	35	70.40
	F3	35	66.69
	Total	140	

Test Statistics^{a,b}

	Rasa
Chi-Square	3.592
df	3
Asymp. Sig.	.309

a. Kruskal Wallis
Test

b. Grouping Variable:
Perlakuan

Lampiran 1.10 Output SPSS Nilai Mean Uji Organoleptik Rasa

F0

Statistics

Rasa

N	Valid	35
	Missing	0
Mean		2.94
Median		3.00
Std. Deviation		.838
Minimum		1
Maximum		4

Rasa

	Frequency	Percent	Valid Percent	Cumulative Percent
1	1	2.9	2.9	2.9
2	10	28.6	28.6	31.4
Valid 3	14	40.0	40.0	71.4
4	10	28.6	28.6	100.0
Total	35	100.0	100.0	

F1

Statistics

Rasa

N	Valid	35
	Missing	0
Mean		3.37
Median		3.00
Std. Deviation		.910
Minimum		2
Maximum		5

Rasa

	Frequency	Percent	Valid Percent	Cumulative Percent
2	6	17.1	17.1	17.1
3	14	40.0	40.0	57.1
Valid 4	11	31.4	31.4	88.6
5	4	11.4	11.4	100.0
Total	35	100.0	100.0	

Output SPSS Nilai Mean Uji Organoleptik Rasa

F2

Statistics

Rasa		
N	Valid	35
	Missing	0
Mean		3.09
Median		3.00
Std. Deviation		.951
Minimum		1
Maximum		5

Rasa				
	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	2.9	2.9	2.9
	2	28.6	28.6	31.4
	3	28.6	28.6	60.0
	4	37.1	37.1	97.1
	5	2.9	2.9	100.0
	Total	35	100.0	100.0

F3

Statistics

Rasa		
N	Valid	35
	Missing	0
Mean		3.00
Median		3.00
Std. Deviation		1.029
Minimum		1
Maximum		5

Rasa				
	Frequency	Percent	Valid Percent	Cumulative Percent
Valid	1	5.7	5.7	5.7
	2	28.6	28.6	34.3
	3	31.4	31.4	65.7
	4	28.6	28.6	94.3
	5	5.7	5.7	100.0
	Total	35	100.0	100.0

Lampiran 1.11 Output SPSS Uji Kruskal Wallis Organoleptik Tekstur

Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
Tekstur	140	3.36	.841	1	5
Perlakuan	140	1.50	1.122	0	3

Ranks

	Perlakuan	N	Mean Rank
Tekstur	F0	35	69.13
	F1	35	78.16
	F2	35	67.79
	F3	35	66.93
	Total	140	

Test Statistics^{a,b}

	Tekstur
Chi-Square	1.983
df	3
Asymp. Sig.	.576

a. Kruskal Wallis Test

b. Grouping Variable: Perlakuan

Lampiran 1.12 Output SPSS Nilai Mean Uji Organoleptik Tekstur

F0

Statistics

Tekstur

N	Valid	35
	Missing	0
Mean		3.37
Median		3.00
Std. Deviation		.770
Minimum		2
Maximum		5

Tekstur

	Frequency	Percent	Valid Percent	Cumulative Percent
2	4	11.4	11.4	11.4
3	16	45.7	45.7	57.1
Valid 4	13	37.1	37.1	94.3
5	2	5.7	5.7	100.0
Total	35	100.0	100.0	

F1

Statistics

Tekstur

N	Valid	35
	Missing	0
Mean		3.54
Median		4.00
Std. Deviation		.817
Minimum		2
Maximum		5

Tekstur

	Frequency	Percent	Valid Percent	Cumulative Percent
2	4	11.4	11.4	11.4
3	11	31.4	31.4	42.9
Valid 4	17	48.6	48.6	91.4
5	3	8.6	8.6	100.0
Total	35	100.0	100.0	

Output SPSS Nilai Mean Uji Organoleptik Tekstur

F2

Statistics

Tekstur

N	Valid	35
	Missing	0
Mean		3.31
Median		3.00
Std. Deviation		.796
Minimum		2
Maximum		5

Tekstur

	Frequency	Percent	Valid Percent	Cumulative Percent
2	6	17.1	17.1	17.1
3	13	37.1	37.1	54.3
Valid 4	15	42.9	42.9	97.1
5	1	2.9	2.9	100.0
Total	35	100.0	100.0	

F3

Statistics

Tekstur

N	Valid	35
	Missing	0
Mean		3.23
Median		3.00
Std. Deviation		.973
Minimum		1
Maximum		5

Tekstur

	Frequency	Percent	Valid Percent	Cumulative Percent
1	3	8.6	8.6	8.6
2	3	8.6	8.6	17.1
Valid 3	13	37.1	37.1	54.3
4	15	42.9	42.9	97.1
5	1	2.9	2.9	100.0
Total	35	100.0	100.0	

Lampiran 1.13 Penentuan Formulasi Terbaik

Perlakuan	Protein	Lemak	Gula	Kadar Air	Serat	Warna	Aroma	Rasa	Tekstur
F0	47.98	20.28	0.45	13.56	0.35	3.54	3.17	2.94	3.37
F1	36.86	18.03	0.42	14.22	1.61	3.51	3.57	3.37	3.54
F2	23.02	19.24	0.59	14.44	3.55	3.4	3.37	3.09	3.31
F3	17.47	13.7	0.35	14.69	4.23	2.91	2.86	3	3.23

DK									
Perlakuan	Protein	Lemak	Gula	Kadar Air	Serat	Warna	Aroma	Rasa	Tekstur
F0	1.000	1.000	0.763	0.923	0.083	1.000	0.888	0.872	0.952
F1	0.768	0.889	0.712	0.968	0.381	0.992	1.000	1.000	1.000
F2	0.480	0.949	1.000	0.983	0.839	0.960	0.944	0.917	0.935
F3	0.364	0.676	0.593	1.000	1.000	0.822	0.801	0.890	0.912

1-DK									
Perlakuan	Protein	Lemak	Gula	Kadar Air	Serat	Warna	Aroma	Rasa	Tekstur
F0	0.000	0.000	0.237	0.077	0.917	0.000	0.112	0.128	0.048
F1	0.232	0.111	0.288	0.032	0.619	0.008	0.000	0.000	0.000
F2	0.520	0.051	0.000	0.017	0.161	0.040	0.056	0.083	0.065
F3	0.636	0.324	0.407	0.000	0.000	0.178	0.199	0.110	0.088

(1-DK)^2									
Perlakuan	Protein	Lemak	Gula	Kadar Air	Serat	Warna	Aroma	Rasa	Tekstur
F0	0.000	0.000	0.056	0.006	0.841	0.000	0.013	0.016	0.002
F1	0.054	0.012	0.083	0.001	0.384	0.000	0.000	0.000	0.000
F2	0.271	0.003	0.000	0.000	0.026	0.002	0.003	0.007	0.004
F3	0.404	0.105	0.165	0.000	0.000	0.032	0.040	0.012	0.008

DK* λ										
Perlakuan	Protein	Lemak	Gula	Kadar Air	Serat	Warna	Aroma	Rasa	Tekstur	Jumlah
F0	0.111	0.111	0.085	0.103	0.009	0.111	0.099	0.097	0.106	0.831
F1	0.085	0.099	0.079	0.108	0.042	0.110	0.111	0.102	0.111	0.847
F2	0.053	0.105	0.111	0.109	0.093	0.107	0.105	0.102	0.104	0.890
F3	0.040	0.075	0.066	0.111	0.111	0.091	0.089	0.099	0.101	0.784

1-DK*Lamda										
Perlakuan	Protein	Lemak	Gula	Kadar Air	Serat	Warna	Aroma	Rasa	Tekstur	Jumlah
F0	0.000	0.000	0.026	0.009	0.102	0.000	0.012	0.014	0.005	0.169
F1	0.026	0.012	0.032	0.004	0.069	0.001	0.000	0.000	0.000	0.143
F2	0.058	0.006	0.000	0.002	0.018	0.004	0.006	0.009	0.007	0.110
F3	0.071	0.036	0.045	0.000	0.000	0.020	0.022	0.012	0.010	0.216

1-DK ² * λ ²	Perlakuan	Protein	Lemak	Gula	Kadar Air	Serat	Warna	Aroma	Rasa	Tekstur	Jumlah
F0	0.000	0.000	0.001	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.012
F1	0.001	0.000	0.001	0.000	0.005	0.000	0.000	0.000	0.000	0.000	0.007
F2	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.004
F3	0.005	0.001	0.002	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.009

Pemilihan Perlakuan				
Perlakuan	L1	L2	Lmax	Terbaik
F0	0.831	0.169	0.012	1.012
F1	0.847	0.143	0.007	0.997
F2	0.890	0.110	0.004	1.004
F3	0.784	0.216	0.009	1.009

Lampiran 1.14 Output SPSS Uji Normalitas

Tests of Normality							
	Perlakuan	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
		Statistic	df	Sig.	Statistic	df	Sig.
Protein	F0	.210	6	.200*	.894	6	.340
	F1	.214	6	.200*	.887	6	.305
	F2	.213	6	.200*	.894	6	.338
	F3	.196	6	.200*	.917	6	.482
Lemak	F0	.231	6	.200*	.885	6	.291
	F1	.260	6	.200*	.867	6	.214
	F2	.167	6	.200*	.974	6	.920
	F3	.214	6	.200*	.903	6	.393
Gula	F0	.202	6	.200*	.853	6	.167
	F1	.167	6	.200*	.982	6	.960
	F2	.192	6	.200*	.881	6	.271
	F3	.167	6	.200*	.960	6	.817
Air	F0	.167	6	.200*	.957	6	.800
	F1	.175	6	.200*	.937	6	.635
	F2	.258	6	.200*	.885	6	.291
	F3	.180	6	.200*	.931	6	.588
Serat	F0	.186	6	.200*	.889	6	.314
	F1	.267	6	.200*	.879	6	.266
	F2	.212	6	.200*	.892	6	.326
	F3	.194	6	.200*	.914	6	.463

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

a. Lilliefors Significance Correction



Lampiran 1.15 Output SPSS Uji ANOVA

		ANOVA				
		Sum of Squares	df	Mean Square	F	Sig.
Protein	Between Groups	3413.754	3	1137.918	2380.831	.000
	Within Groups	9.559	20	.478		
	Total	3423.313	23			
Lemak	Between Groups	150.518	3	50.173	1005.865	.000
	Within Groups	.998	20	.050		
	Total	151.515	23			
Gula	Between Groups	.183	3	.061	44.816	.000
	Within Groups	.027	20	.001		
	Total	.210	23			
Air	Between Groups	4.228	3	1.409	56.487	.000
	Within Groups	.499	20	.025		
	Total	4.727	23			
Serat	Between Groups	56.959	3	18.986	138.788	.000
	Within Groups	2.736	20	.137		
	Total	59.695	23			

Output SPSS Uji ANOVA

Descriptives

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum	
					Lower Bound	Upper Bound			
Protein	F0	6	47.9800	.52669	.21502	47.4273	48.5327	47.33	48.60
	F1	6	36.8600	1.01094	.41271	35.7991	37.9209	35.63	38.05
	F2	6	23.0200	.46061	.18804	22.5366	23.5034	22.46	23.56
	F3	6	17.4700	.63265	.25828	16.8061	18.1339	16.70	18.24
	Total	24	31.3325	12.19999	2.49031	26.1809	36.4841	16.70	48.60
Lemak	F0	6	20.2800	.03847	.01571	20.2396	20.3204	20.21	20.32
	F1	6	18.0300	.35401	.14452	17.6585	18.4015	17.50	18.35
	F2	6	19.2400	.16601	.06777	19.0658	19.4142	18.99	19.49
	F3	6	13.7000	.21251	.08676	13.4770	13.9230	13.42	13.94
	Total	24	17.8125	2.56664	.52391	16.7287	18.8963	13.42	20.32
Gula	F0	6	.4500	.01789	.00730	.4312	.4688	.43	.47
	F1	6	.4200	.01414	.00577	.4052	.4348	.40	.44
	F2	6	.5900	.06512	.02658	.5217	.6583	.52	.67
	F3	6	.3500	.02608	.01065	.3226	.3774	.31	.38
	Total	24	.4525	.09556	.01951	.4121	.4929	.31	.67
Air	F0	6	13.5600	.21550	.08798	13.3338	13.7862	13.27	13.86
	F1	6	14.2200	.19555	.07983	14.0148	14.4252	14.00	14.56
	F2	6	14.4400	.08579	.03502	14.3500	14.5300	14.30	14.52
	F3	6	14.6900	.08809	.03596	14.5976	14.7824	14.58	14.80

Serat	Total	24	14.2275	.45335	.09254	14.0361	14.4189	13.27	14.80
	F0	6	.3500	.08579	.03502	.2600	.4400	.24	.44
	F1	6	1.6100	.05967	.02436	1.5474	1.6726	1.50	1.67
	F2	6	3.5500	.66188	.27021	2.8554	4.2446	2.61	4.20
	F3	6	4.2300	.31337	.12793	3.9011	4.5589	3.85	4.61
	Total	24	2.4350	1.61103	.32885	1.7547	3.1153	.24	4.61



Lampiran 1.16 Output SPSS Uji Post Hoc Duncan

Post Hoc Tests

Protein

Duncan

Perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
F3	6	17.4700			
F2	6		23.0200		
F1	6			36.8600	
F0	6				47.9800
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Lemak

Duncan

Perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
F3	6	13.7000			
F1	6		18.0300		
F2	6			19.2400	
F0	6				20.2800
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Gula

Duncan

Perlakuan	N	Subset for alpha = 0.05		
		1	2	3
F3	6	.3500		
F1	6		.4200	
F0	6		.4500	
F2	6			.5900
Sig.		1.000	.174	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Output SPSS Uji Post Hoc Duncan

Air

Duncan

Perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
F0	6	13.5600			
F1	6		14.2200		
F2	6			14.4400	
F3	6				14.6900
Sig.		1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

Serat

Duncan

Perlakuan	N	Subset for alpha = 0.05			
		1	2	3	4
F0	6	.3500			
F1	6		1.6100		
F2	6			3.5500	
F3	6				4.2300
Sig.		1.000	1.000	1.000	1.000

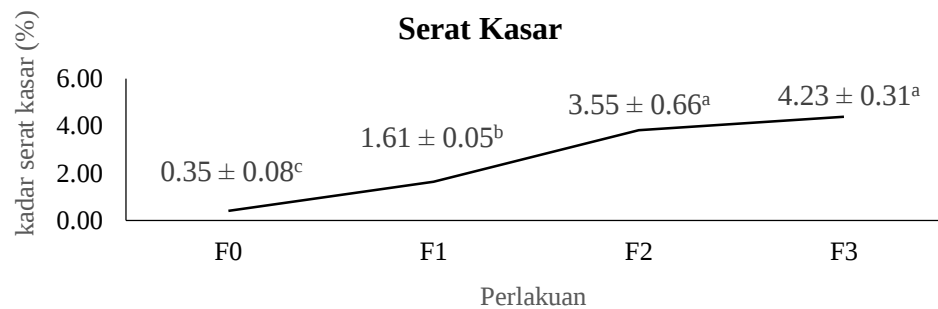
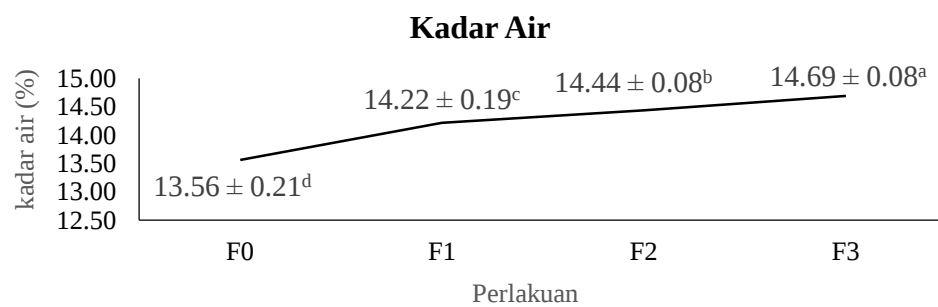
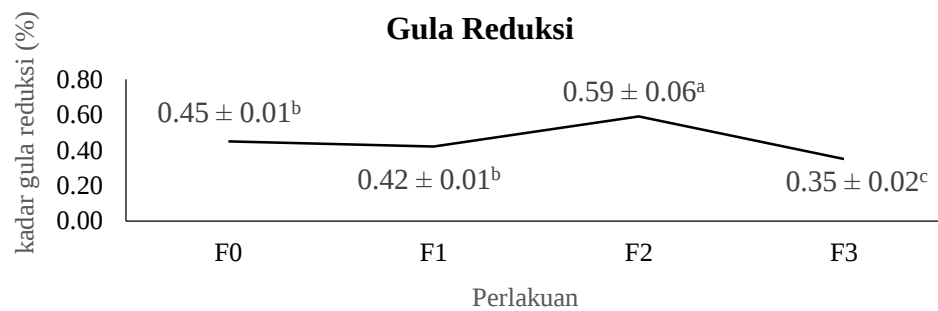
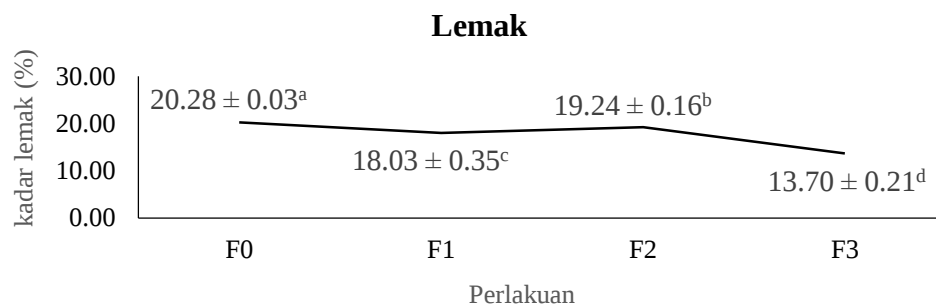
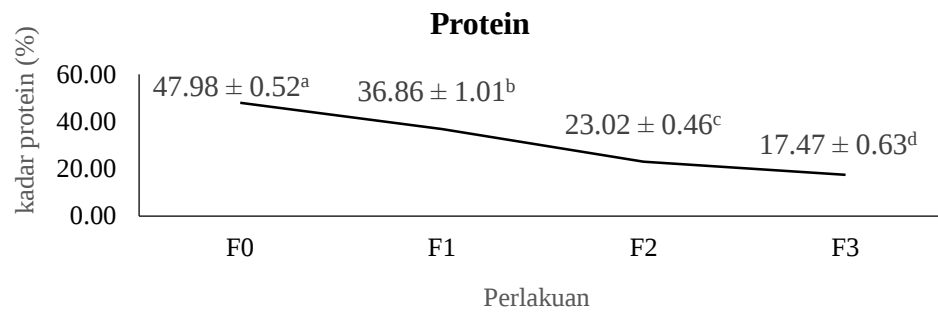
Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

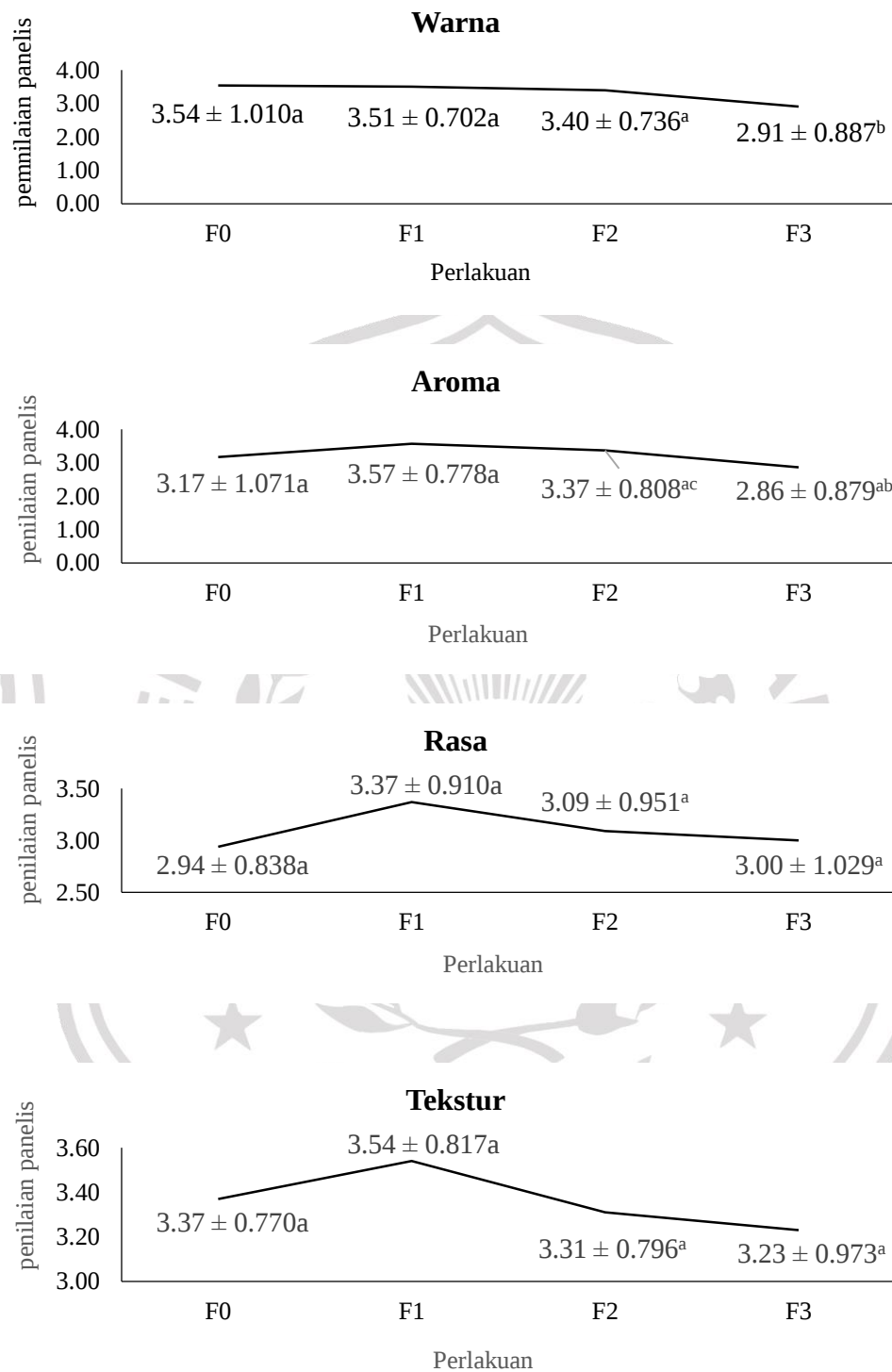
Lampiran 1.17 Data Kandungan Kimia

Perlakuan	Ulangan	Gula Reduksi	Lemak	Protein	Kadar Air	Serat Kasar
F0	1	0.43	20.27	47.37	13.86	0.26
F0	2	0.47	20.3	48.6	13.27	0.44
F0	3	0.45	20.28	47.98	13.56	0.35
F0	4	0.47	20.21	47.33	13.36	0.24
F0	5	0.43	20.32	48.26	13.65	0.37
F0	6	0.45	20.3	48.34	13.66	0.44
F1	1	0.44	17.71	35.67	14.3	1.63
F1	2	0.41	18.35	38.05	14.14	1.6
F1	3	0.42	18.03	36.86	14.22	1.61
F1	4	0.4	18.31	37.54	14	1.65
F1	5	0.43	18.28	35.63	14.1	1.67
F1	6	0.42	17.5	37.41	14.56	1.5
F2	1	0.52	19.49	23.56	14.5	4.2
F2	2	0.67	18.99	22.48	14.38	2.9
F2	3	0.59	19.24	23.02	14.44	3.55
F2	4	0.66	19.32	22.46	14.3	2.61
F2	5	0.52	19.16	23.24	14.5	4.12
F2	6	0.58	19.24	23.36	14.52	3.92
F3	1	0.33	13.94	16.7	14.8	4.61
F3	2	0.37	13.47	18.24	14.58	3.85
F3	3	0.35	13.7	17.47	14.69	4.23
F3	4	0.38	13.85	17.35	14.6	3.89
F3	5	0.36	13.42	18.16	14.7	4.52
F3	6	0.31	13.82	16.9	14.77	4.28

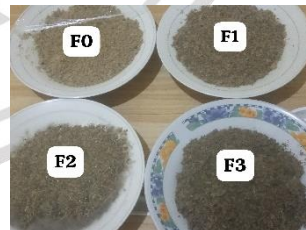
Lampiran 1.18 Grafik Kandungan Kimia



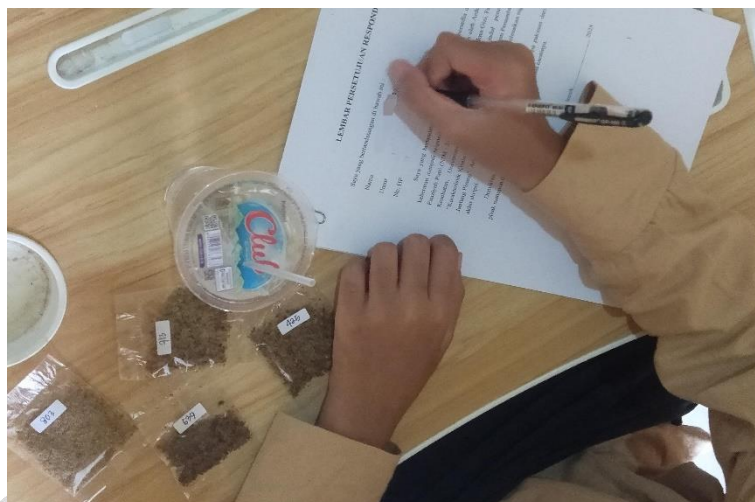
Lampiran 1.19 Grafik Penilaian Organoleptik



Lampiran 1.20 Dokumentasi Pembuatan Abon

 Gambar 1. Ikan kembung setelah di cuci dengan air	 Gambar 2. Ikan kembung setelah di kukus	 Gambar 3. Pemisahan daging ikan dari duri
 Gambar 4. Jantung pisang kepok sebelum diolah	 Gambar 5. Pengirisan dan perendaman di air garam	 Gambar 6. Jantung pisang yang di rebus
 Gambar 7. Daging ikan kembung	 Gambar 8. Meratakan daging pada loyang	 Gambar 9. Daging Ikan kembung setelah dari oven
 Gambar 10. Abon di haluskan dengan <i>chopper</i> dan di timbang	 Gambar 11. Setelah ditimbang dan dicampur sesuai formulasi, lalu dilakukan <i>pan frying</i>	 Gambar 12. Abon yang siap di kemas dan diberikan label

Lampiran 1.21 Dokumentasi Uji Organoleptik



Lampiran 1.22 Bukti Penyerahan Revisi Skripsi

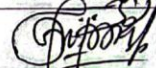
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BUKTI PENYERAHAN SKRIPSI

Nama : Ardelia Nur Fauziyah Putri
NIM : 211101027
Judul : Karakteristik Kimia dan Organoleptik Abon Ikan Kembung dengan Penambahan Jantung Pisang

menyatakan bahwa telah merevisi skripsi pasca ujian sidang skripsi dengan persetujuan pembimbing dan penguji.

Persetujuan pembimbing dan penguji ujian Skripsi :

No	Nama Pembimbing/Penguji	Tanggal Selesai Revisi	Tanda Tangan
1	Dwi Novri Supriatiningrum, S.Pd., M.Kes	16 Juli 2025	
2	Sutrisno Adi Prayitno, STP., MP	17 Juli 2025	
3	Amalia Rahma, S.Gz., M.Si	16 Juli 2025	

Gresik, 17 Juli 2025

Mahasiswa,



Ardelia Nur Fauziyah Putri

Lampiran 1.23 Pemeriksaan Plagiarisme Skripsi

TURNITIN SKRIPSI ABON IKAN KEMBUNG DENGAN PENAMBAHAN JANTUNG PISANG

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Lampiran 1.24 Sertifikat Laik Etik



**KOMISI ETIK PENELITIAN
UNIVERSITAS MUHAMMADIYAH GRESIK**

**KETERANGAN KELAIKAN ETIK
ETHICAL APPROVAL
Nomor : 50/KET/II.3.UMG/KEP/A/2025**

Komisi Etik Penelitian Universitas Muhammadiyah Gresik dalam upaya melindungi hak asasi dan kesejahteraan subyek penelitian, telah mengkaji dengan teliti protokol penelitian yang diusulkan, maka dengan ini menyatakan bahwa penelitian berjudul :

Karakteristik Kimia dan Organoleptik Abon Ikan Kembung dengan Penambahan Jantung Pisang.

Peneliti Utama : Ardelia Nur Fauziah Putri
NIM : 211101027
Nama Institusi : Universitas Muhammadiyah Gresik

DINYATAKAN LAIK ETIK

Gresik, 18 September 2025

Ketua,



**Dr. Wiwik Widiyawati, S.Kep., Ns., M.M., M.Kes.
NIP. 11111903236**