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## **LAMPIRAN**

### Lampiran 1. Prosedur Uji Sensoris dan Kimia

#### 1. Uji Sensoris

Dalam penilaian suatu mutu atau karakteristik sifat sensori menggunakan suatu alat/instrument manusia yang disebut dengan panelis. Panelis akan melakukan analisa sensori dengan hasil uji yang dapat bersifat kuantitatif maupun kualitatif. Proses identifikasi ini diukur melalui lima panca indra manusia seperti indra penglihatan, penciuman, pencicipan, pendengaran dan peraba. (Setyaningsih, 2010).

Uji sensori yang dilakukan pada penelitian ini yaitu uji mutu sensori dan uji hedonik. Uji mutu sensori merupakan suatu uji yang mengidentifikasi sifat sensori pada produk pangan dan memberikan informasi intensitas karakteristik produk pangan tersebut. Sedangkan uji hedonik bertujuan untuk mengetahui tingkat kesukaan dari suatu produk. Panelis yang digunakan dalam penelitian ini adalah panelis semi terlatih sebanyak 30 orang. Parameter uji yang digunakan meliputi warna, rasa, aroma, tekstur dan over all dengan menggunakan skala garis dengan panjang 10 cm (0-10) dengan tanda batas di kedua ujung dari ujung kiri dan kanan yang di beri label dengan deskripsi intensitas.

#### 2. Uji Kimia

##### a. Kadar Air Metode Gravimetri (AOAC, 2005)

Analisa kadar air dilakukan menggunakan oven. Cawan perselen yang telah dikeringkan dan diketahui bobotnya, ditambahkan sampel seberat 1-2 gram, dikeringkan pada oven dengan suhu 105°C

selama 3 jam. Sampel kemudian didinginkan dalam eksikator/desikator kemudian ditimbang, pengerjaan diulang hingga diperoleh bobot yang konstan.

Perhitungan kadar air:

$$\% \text{Kadar air} = \frac{A - C}{B} \times 100\%$$

Keterangan : A = bobot cawan + sampel sebelum dikeringkan (gr)

B = bobot sampel awal (gr)

C = bobot cawan + sampel setelah dikeringkan (gr)

b. Kadar Abu Metode Gravimetri (AOAC, 2005)

Analisa kadar abu dilakukan dengan pengabuan suhu 550°C. Cawan perselan yang telah diketahui bobotnya ditambahkan sampel seberat 2-3 gram, yang kemudian diabukan dalam tanur listrik pada suhu maksimum 550 °C hingga pengabuan sempurna, kemudian didinginkan dalam desikator lalu ditimbang hingga diperoleh bobot yang konstan.

Perhitungan kadar abu:

$$\% \text{Kadar Abu} = \frac{A - C}{B} \times 100\%$$

Keterangan:

A = bobot cawan + sampel kering (gr)

B = bobot sampel awal (gr)

C = bobot cawan + abu (gr)

c. Kadar Lemak Metode Soxhlet (AOAC,2006)

Sampel 5 gram ( $W_1$ ) dimasukkan ke dalam kertas saring yang pada kedua ujung ditutup dengan kapas bebas lemak dan selanjutnya dimasukkan ke dalam selongsong lemak. Sampel yang telah dibungkus, dimasukkan ke dalam labu lemak yang sudah ditimbang berat tetapnya ( $W_2$ ) dan disambungkan dengan tabung *soxhlet*. Selongsong lemak dimasukkan ke dalam ruang ekstraktor tabung *soxhlet* dan disiram dengan pelarut lemak yang ada dalam labu lemak didestilasi hingga semua pelarut lemak menguap. Pada saat destilasi, pelarut akan tertampung di ruang ekstraktor dan di keluarkan sehingga tidak kembali ke dalam labu lemak. Labu lemak dikeringkan dalam oven pada suhu 105°C dan setelah itu, labu didinginkan dalam desikator sampai beratnya konstan ( $W_3$ ).

Perhitungan kadar lemak :

$$\% \text{ Kadar lemak} = \frac{W_3 - W_2}{W_1} \times 100\%$$

Keterangan :

$W_1$  = Berat sampel (gram)

$W_2$  = Berat labu lemak tanpa lemak (gram)

$W_3$  = Berat labu lemak dengan lenak (gram)

d. Kadar Protein Metode Kjeldahl (AOAC, 2005)

Pengukuran kadar protein dilakukan dengan metode *Kjeldahl*. Labu *kjeldahl* 30 ml ditambahkan sampel seberat 0,1 gram – 25 gram, kemudian ditambahkan dengan 1,9gram  $K_2SO_4$ , 40 mg HgO, dan 3,8 ml  $H_2SO_4$ .

Sampel dididihkan selama 1-1,5 jam sampai cairan menjadi jernih. Sampel didinginkan dan ditambahkan air sedikit demi sedikit kemudian didinginkan kemabali. Cairan dalam labu *kjeldahl* dipindahkan kedalam alat destilasi dan ditambahkan 8-10 ml larutan 60% NaOH-5%  $Na_2S_2O_3$ . Dalam rangkaian alat destilasi, Erlenmeyer berukuran 250 ml yang berisi 5 ml larutan  $H_3BO_3$  dan 2-4 tetes indikator merah metilen-biru metilen diletakan dibawah kondensor, ujung tabung kondensor harus terendam dibawah larutan  $H_3BO_3$  lalu dilakukan destilasi sampai destilat tertampung kira-kira sebanyak 15 ml. Setelah itu destilat dititrasi dengan larutan HCl 0,02N yang telah distandarisasi sampai terjadi perubahan warna destilat menjadi abuabu. Dalam pengerjaan dilakukan penetapan balngko dengan metode yang sama untuk mengurangi bias dalam pengukuran.

Perhitungan kadar protein:

$$\% \text{ Kadar Nitrogen} = \frac{[(\text{ml HCl sampel} - \text{ml HCL blngko}) \times N \text{ HCl} \times 14,007 \times 100]}{\text{mg Sampel}}$$

$$\% \text{ Kadar Protein} = \%N \times \text{faktor konversi}$$

e. Kadar Serat Kasar (AOAC, 2005)

Prosedur uji serat kasar adalah sebagai berikut: melarutkan sampel sebanyak 4 gram dengan menambahkan 50 ml  $H_2SO_4$  1,25%, kemudian dipanaskan hingga mendidih dan didestruksi selama 30 menit. Menambahkan 50 ml NaOH 3,25% dan didihkan lagi selama 30 menit. Selanjutnya disaring menggunakan kertas saring Whatman dan dengan bantuan corong Buchner. Selanjutnya mencuci endapan yang terdapat pada kertas saring berturut-turut dengan  $H_2SO_4$  1,25% panas, air panas dan etanol 96%. Mengangkat kertas saring beserta isinya masukkan ke dalam kotak timbang yang telah diketahui bobotnya. Keringkan pada suhu 1050C dinginkan dan timbang sampai bobot tetap.

Persentase kadar serat kasar menurut Leiwakabessy, dkk (2017) dapat dihitung dengan rumus seperti berikut:

$$\% \text{ Kadar Serat Kasar} = \frac{W_3 - W_1}{W_2} \times 100\%$$

Keterangan:

$W_1$  = Bobot endapan pada kertas saring setelah dikeringkan (g)

$W_2$  = Bobot sampel (g)

$W_3$  = Bobot endapan pada kertas saring sebelum dikeringkan (g)

f. Kadar Karbohidrat (*by difference*)

Pengukuran karbohidrat dapat dilakukan dengan cara perhitungan kasar (*proximate analysis*) atau biasa disebut *Carbohydrate by difference*. *Carbohydrate by difference* adalah suatu analisis dimana kandungan karbohidrat termasuk serat kasar diketahui bukan melalui analisis tetapi melalui perhitungan sebagai berikut :

$$\% \text{ karbohidrat} = 100\% - \% \text{ kadar (air + abu + lemak + protein)}$$



**Uji Mutu Sensori Terhadap Stik Lele**

Nama : .....

Tanggal : .....

**Produk : Stik dengan tambahan pegagan dan ikan lele**

**Intruksi :**  
 Dihadapan anda terdapat sampel formulasi Stik dengan tambahan pegagan dan ikan lele. Berikan penilaian intensitas karakteristik berdasarkan parameter warna, rasa, aroma, tekstur masing masing-sampel dengan **memberikan tanda garis vertikal atau tanda silang pada garis horizontal**. Sebelum mencicipi produk netralkan terlebih dahulu dengan meminum air putih yang telah disediakan.

Kode : .....

**Warna**

0 |-----| 100  
 Sangat tidak suka ikan lele Kuning Sangat suka

Alasan/komentar : .....

Alasan/komentar : .....

**Rasa**

0 |-----| 10  
 Sangat tidak suka ikan lele Tidak ada rasa Tidak Sangat suka

Alasan/komentar : .....

Alasan/komentar : .....

**Aroma**

0 |-----| 10  
 Sangat tidak suka Terasa aroma pegagan Tidak terasa aroma pegagan Sangat suka

Alasan/komentar : .....

Alasan/komentar : .....

**Tekstur**

0 |-----| 10  
 Sangat tidak suka Tidak renyah Sangat suka Renyah

Alasan/komentar : .....

Alasan/komentar : .....

**Over All**

Komentar keseluruhan : .....

0 |-----| 10  
 Sangat tidak suka Sangat suka

Komentar keseluruhan : .....

4. Skor Uji Mutu Sensori Panelis Terhadap Stik Lele Pegagan Hasil Uji Mutu Sensori Warna

Lampiran

Pan elis	A1B1		A1B2		A1B3		A2B1		A2B2		A2B3		A3B1		A3B2		A3B3	
1	8.2	7.2	4.8	3.2	2.3	6.6	5.6	7.2	4	7.2	2.1	3.6	7.7	9.8	2.3	2.9	1.6	1.6
2	9.7	8.6	9.4	2.4	1	7.9	8.5	9.3	4	4.2	2.8	1.8	8.7	7.3	2	8	1.1	2.1
3	9.1	7.9	9.1	1	7.4	7	9	5.4	7.8	4.2	7	2	8.1	6.3	2.2	7	1.3	2.7
4	8.6	9.1	6.7	8.5	5.2	3.2	8.5	8.3	5.4	8.8	3.4	2	9.8	9	5.2	7.3	3.3	2
5	9.8	7.3	9.7	2.4	6.6	2.4	9.3	6.2	9.1	5.3	2	1.8	7.3	8	7	3	1.5	4.4
6	9.3	9.5	8.5	6	7.9	1	9.6	7.8	4.5	4.9	2	2.4	6.3	8	2.9	2.6	1	2.7
7	8	4	3	1.1	7	8.5	6.7	9.5	9	2.5	1.8	3.4	9	8.4	8	3	1.3	2
8	8	7.2	8	7.6	3.2	2.4	9	8.2	9	5.6	2	4	8	8.6	7	2.6	2	4.4
9	9.1	8.7	2	1.4	2.4	6	9	7.6	4.2	8.8	2	1.9	8	8.2	7.3	7.7	5	1.1
10	9.4	9.2	8.8	7.8	1	1.1	7.2	8.2	4.2	2.4	1.8	2.3	8.4	9.4	3	6	2.3	7.1
11	8.8	5	2.4	8.5	8.5	5	9.3	9.9	8.8	7.2	2.4	3.5	9.5	9.6	2.6	4.3	1.7	1.2
12	9.7	7.5	9.2	4.1	2.4	1	5.4	7.5	5.3	8.1	3.4	4.5	7.7	8.3	7.7	4.5	1.2	3.1
13	6.4	8.8	8.7	8.3	6	1	8.3	7.6	4.9	2.5	4	1.4	8.2	8	6	3.2	1.6	2
14	9.3	9.7	9.3	8.7	1.1	4.4	6.2	8.2	2.5	5.6	1.9	7.7	7	8.4	4.3	3.2	2.1	3
15	9.5	6.4	7.7	9	7.6	1.8	7.8	9.9	5.6	8.8	2.3	3	8	8.4	4.5	7.5	2.7	4.5
16	8.7	9.3	9.5	8	1.4	1	9.5	7.5	8.8	2.4	3.5	9.5	8.6	8.8	3.2	7.5	2	3
17	6.3	9.5	8.5	7.8	7.8	8.5	8.2	9.1	2.4	7.2	4.5	1.7	8.2	9.3	7.5	4.4	4.4	1.9
18	8.6	8.7	4.1	9.4	3	6.1	7.6	7.2	7.2	8.1	1.4	2	9.4	7.5	7.5	7.6	1.1	3
19	9.4	6.3	8.3	3.4	1.1	7.1	8.2	9.8	8.1	3.1	7.7	1	9.6	7.7	4.4	7	7.1	4.7
20	4	8.6	8.7	8	5	2.3	9.9	7.7	3.1	4.9	3	3.4	8.3	8.7	7.6	7.4	1.2	1.5
21	9.4	9.4	9	8	1	1	7.5	5.6	9.5	6.7	9.5	2	8	8.1	7	2.3	3.1	1
22	8	8.2	8	8.4	1	7.4	9.1	8.5	3.6	3.5	1.7	2	8.4	9.8	7.4	2	2	1.3
23	3.9	9.7	7.8	9.5	4.4	5.2	7.2	9	7	4.5	2	1.8	8.8	7.3	8	2.2	3	2
24	8.3	9.1	9.4	7.7	1.8	6.6	9.8	8.5	4.9	6.5	1	2	9.3	6.3	7.8	5.2	3.2	5
25	9.8	8.6	3.4	8.2	1	7.9	7.7	9.3	6.7	5.3	2.5	2	7.5	9	3.2	7	4.5	2.3
26	5.7	9.8	9.5	7	8.5	7	7.4	9.6	3.5	4.7	4.1	1.8	7.3	8	3	2.9	3	1.7
27	9.6	9.3	9.3	8	6.1	3.2	8.7	6.7	4.5	4	1.5	2.4	8.6	8	8.5	8	1.9	1.2
28	7.9	8	7.2	8.6	7.1	2.4	7.5	9	6.5	7.8	2.4	3.4	5.3	8.4	4.7	7	3	1.6
29	9.9	8	9.6	6.7	1.5	1	5.6	9	5.3	5.4	6.5	4	7.7	8.3	3.8	7.3	4.7	2.1
30	9	9.1	8.9	9.7	7.1	8.5	8.5	7.2	4.7	9.1	4	1.9	8.3	8	6.9	4.7	1.9	2.7
Jum lah	25 1.4	247 ,7	22 8.5	198, 4	12 7.4	134, 5	241. 8	244, 5	174. 1	169, 3	97	86,2	245	248, 9	162. 5	15 5,3	75. 8	78,9
Rat arata	8.3 8	8,2 5	7.6 2	6,78	4.2 5	4,12	8.06	8,17	5.8	5,69	3.23	2,92	8.17	8,28	5.42	5,1 7	2.5 3	2,68

Lampiran 5. Hasil Uji ANOVA Mutu Sensori

Hasil Uji Statistik SPSS Mutu Sensori Warna

Tests of Between-Subjects Effects

Warna 1

Dependent Variable: Ikan\_Lele

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1214.970 <sup>a</sup>	8	151.871	40.058	.000
Intercept	9513.508	1	9513.508	2509.294	.000
Ikan lele	1214.970	8	151.871	40.058	.000
Pegagan	1125.942	8	167.275	42.743	.000
Error	989.532	261	3.791		
Total	11718.010	270			
Corrected Total	2204.502	269			

a. R Squared = .551 (Adjusted R Squared = .537)

**Warna 1**

	Perlakuan	N	Subset				
			1	2	3	4	
Duncan <sup>a,b</sup>	A3B3	30	2.5267				
	A2B3	30	3.2067				
	A1B3	30		4.2467			
	A3B2	30			5.4167		
	A2B2	30			5.8033		
	A1B2	30				7.6167	
	A2B1	30				8.0600	
	A3B1	30				8.1667	
	A1B1	30				8.3800	
	Sig.	30					
				.177	1.000	.443	.170

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 3.791.

a. Uses Harmonic Mean Sample Size = 30.000.

b. Alpha = .05.

Descriptive Statistics

Dependent Variable: Warna 1

Perlakuan	Mean	Std. Deviation	N
A1B1	8.3800	1.60353	30
A1B2	7.6167	2.35578	30
A1B3	4.2467	2.80489	30
A2B1	8.0600	1.26207	30
A2B2	5.8033	2.16102	30
A2B3	3.2067	2.02773	30
A3B1	8.1667	.96466	30
A3B2	5.4167	2.18570	30
A3B3	2.5267	1.43213	30
Total	5.9359	2.86272	270

Tests of Between-Subjects Effects Dependent Variable: Warna 2

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1176.387 <sup>a</sup>	8	147.048	38.790	.000
Intercept	9056.140	1	9056.140	2388.918	.000
Perlakuan	1176.387	8	147.048	38.790	.000
Error	989.424	261	3.791		
Total	11221.950	270			
Corrected Total	2165.810	269			

a. R Squared = .543 (Adjusted R Squared = .529)

Pegagan

	Perlakuan	N	Subset				
			1	2	3	4	5
		30	2.6300				
	A3B3	30	2.8733				
	A2B3	30		4.4833			
	A1B3	30		5.1767	5.1767		
	A3B2	30			5.6433	5.6433	
	A2B2	30				6.6133	
Duncan <sup>a,b</sup>	A1B2	30					8.1500
	A2B1	30					8.2567
	A1B1	30					8.2967
	A3B1	30					
	Sig.		.629	.169	.354	.055	.786

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 3.791.

a. Uses Harmonic Mean Sample Size = 30.000.

b. Alpha = ,05.

### Descriptive Statistics

Dependent Variable: Pegagan

Perlakuan	Mean	Std. Deviation	N
A1B1	8.2567	1.40410	30
A1B2	6.6133	2.76290	30
A1B3	4.4833	2.79755	30
A2B1	8.1500	1.22073	30
A2B2	5.6433	2.11736	30
A2B3	2.8733	1.79884	30
A3B1	8.2967	.86123	30
A3B2	5.1767	2.17457	30
A3B3	2.6300	1.41669	30
Total	5.7915	2.83749	270

### Tests of Between-Subjects Effects Interaksi antara ikan lele dan pegagan

Dependent Variable: Perlakuan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1765.000 <sup>a</sup>	262	6.737	1.347	.364
Intercept	6643.426	1	6643.426	1328.685	.000
Pegagan * Ikan_Lele	1765.000	262	6.737	1.347	.364
Error	35.000	7	5.000		
Total	8550.000	270			
Corrected Total	1800.000	269			

a. R Squared = .981 (Adjusted R Squared = .253)

### Hasil Uji Mutu Sensori Rasa

Pan- elis	A1B1		A1B2		A1B3		A2B1		A2B2		A2B3		A3B1		A3B2		A3B3	
	8.5	8.9	8.4	8.1	8.2	8	8	9.8	3.2	5.4	7.4	7.4	3.1	8.2	2.5	8.5	2.9	4.3
1																		

2	6.3	9.4	8.3	8.4	9.2	8.8	6.2	9.4	2.5	8.4	4.3	7.8	1.9	9.2	2.1	8.2	1.7	8.8
3	8.9	9.4	9.2	7.2	9	9	4.7	7.9	7.7	5.4	4.1	9.1	2.7	9.3	3.6	5	3.6	7.6
4	8.6	8.6	8.5	7.7	8.4	6.7	8	9.3	7	8.3	6.7	6	4.7	8.4	6.1	5.5	5.2	5.6
5	9	9.6	9.7	9.7	9.6	8.8	8.9	8.8	9	9.6	8.9	9.4	7.7	9.7	2.3	9.8	7	9.8
6	8.4	8.3	8.4	8.4	9.1	9	9	8.7	8.5	8.5	8.4	7.6	3.6	10	4.2	8.4	5.5	7.4
7	8.8	9.2	5.1	9	4.5	8.7	6.6	6	2.4	4.9	3	8	4	9	2.3	4.3	2	7.4
8	10	8	10	10	10	10	8	7	8	8	7	8	8	10	7	7	6	10
9	8	7	6	9	7	9.5	5	8	4	7	8	8	7	7	5	8	2.1	5
10	5	8.2	5	8.9	8.4	8	2	7	5	9	6.9	8	4.4	7	5	7.2	2.5	7
11	8.1	8.6	6.4	8	4.6	8.8	6.3	7.8	3.1	7.7	3.1	9.2	3.2	7.5	2.3	5.5	8	2.9
12	7.5	9.2	6.2	8.7	4.6	9	3.5	9	3.7	9.1	3.3	8.3	1.4	8.9	3	4.7	2.9	9
13	6.6	8.6	5.6	7.9	8	7.9	4.1	7.1	3.8	9.5	2.1	7.7	2.7	8	1.3	9.8	2.7	7.8
14	5.4	8.5	6.4	6.1	10	6.7	3.9	10	7.7	4.9	9.8	5.6	4.1	9.4	1.7	9.7	2.4	10
15	9.5	5.7	6.9	7.5	7.9	7.7	8	7.4	9	9.6	8.6	9.6	7.4	8.6	1.9	8.1	7.7	6.6
16	8.4	9.8	8.4	9.6	8.8	9.6	7.5	9.3	8	8.3	9.3	7.5	5	9.6	1.6	8.4	1.1	9.7
17	9.8	2.6	9.5	8.5	9.6	8.9	8.2	7.2	8.3	9.2	9.4	9.7	1.8	8.4	6	7.3	8.2	6.9
18	8.4	7.5	8.3	9.7	8.3	7.4	9	8.8	8.4	7.8	7.8	8.2	7.7	9	6.9	9.8	7.5	9
19	8.1	9.6	8	7.9	6.1	8.9	8.3	8	2.2	6.9	2.5	9	7	7.8	4.4	9.2	8.2	7.7
20	7.3	9.6	8.4	9.7	8.6	9.5	2.8	9.5	8.1	9.5	8.5	4.6	1.6	9.7	1.9	8	6	3.1
21	5.1	7.7	7	9.2	5.4	6	2	9.3	2	9.2	2.5	8	2.4	9	1.9	7.1	1.4	4
22	9.2	9.3	7.8	5.3	8	8	3.9	7.6	9.2	8.8	8.8	8.7	2	8	1.1	9	2	9
23	8	8	7.9	9	9	7.8	6.7	7	6	8	4.7	4.8	1.8	9.3	3.5	8.1	2.3	3
24	10	8.4	5.3	7.9	6.9	9.8	4.8	6.8	6.1	5.9	3.8	9.8	3.4	8.7	8	9.8	3.4	3.4
25	6.9	9.7	6.3	9.8	4.2	8.9	6.3	9.8	8.5	8.3	5.1	8.4	9.3	9.8	2.3	8.1	2	9.7
26	8.6	5.5	4.6	9.4	2.9	10	3.7	8.8	4.2	9.8	9.2	9.5	3.8	9.3	7.1	6.8	2	4.4
27	4.6	9	8.7	9	8.5	8.9	8.6	8.5	8.7	9.6	8.7	8.9	3.4	8	2	8.5	2.4	8.9
28	7.9	7.8	7.8	7.7	7.3	7.7	7.5	7.5	7.1	7	7.2	7.2	6.6	6.7	6.4	6.5	3.1	6.7
29	9.8	9.8	9.5	9.1	8.7	8.3	5.5	9.3	7.4	9.8	8.3	8.5	1.5	9.6	0.8	8.4	6.7	9.6
30	8.8	9.1	9.3	9.1	8.8	8.9	7.8	9	6.6	6.2	7.9	6.2	6.2	8.5	5.4	6.8	5.6	5.6
Jumlah	239,5	250,6	226,9	247,4	229,6	255,2	184,8	249,6	185,4	239,6	195,3	238,7	129,4	261,6	109,6	231,5	124,1	209,9
Rata-rata	7,98	8,35	7,56	8,53	7,65	8,51	6,16	8,32	6,18	7,99	6,51	7,96	4,31	8,72	3,65	7,72	4,14	6,99

### Hasil Uji Statistik SPSS Mutu Sensori Rasa

#### Tests of Between-Subjects Effects

Dependent Variable: Ikan\_Lele

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	633.620 <sup>a</sup>	8	79.202	17.518	.000
Intercept	9762.045	1	9762.045	2159.223	.000
Perlakuan	633.620	8	79.202	17.518	.000
Error	1180.005	261	4.521		
Total	11575.670	270			

Corrected Total	1813.625	269		
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a. R Squared = .349 (Adjusted R Squared = .329)

### Ikan\_Lele

	Perlakuan	N	Subset			
			1	2	3	4
Duncan <sup>a,b</sup>	A3B2	30	3.6533			
	A3B3	30	4.1367			
	A3B1	30	4.3133			
	A2B1	30		6.1600		
	A2B2	30		6.1800		
	A2B3	30		6.5100	6.5100	
	A1B2	30			7.5467	7.5467
	A1B3	30				7.6533
	A1B1	30				7.9633
	Sig.					
				.260	.552	.060

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 4.521.

a. Uses Harmonic Mean Sample Size = 30.000.

b. Alpha = .05.

### Descriptive Statistics

Dependent Variable: Ikan\_Lele

Perlakuan	Mean	Std. Deviation	N
A1B1	7.9633	1.49285	30
A1B2	7.5467	1.53617	30
A1B3	7.6533	1.91090	30
A2B1	6.1600	2.18089	30
A2B2	6.1800	2.42905	30
A2B3	6.5100	2.50329	30
A3B1	4.3133	2.32316	30
A3B2	3.6533	2.12371	30
A3B3	4.1367	2.37058	30
Total	6.0130	2.59656	270

### Tests of Between-Subjects Effects

Dependent Variable: Pegagan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	66.127 <sup>a</sup>	8	8.266	3.965	.000
Intercept	17768.200	1	17768.200	8523.203	.000
Perlakuan	66.127	8	8.266	3.965	.000
Error	544.103	261	2.085		
Total	18378.430	270			
Corrected Total	610.230	269			

a. R Squared = .108 (Adjusted R Squared = .081)

### Pegagan

	Perlakuan	N	Subset			
			1	2	3	
Duncan <sup>a,b</sup>	A3B3	30	6.9967			
	A3B2	30	7.7167	7.7167		
	A2B3	30		7.9567	7.9567	
	A2B2	30		7.9867	7.9867	
	A1B1	30		8.2900	8.2900	
	A2B1	30		8.3200	8.3200	
	A1B3	30		8.5067	8.5067	
	A1B2	30		8.5167	8.5167	
	A3B1	30			8.7200	
	Sig.			.055	.064	.078

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 2.085.

a. Uses Harmonic Mean Sample Size = 30.000.

b. Alpha = ,05.

### Descriptive Statistics

Dependent Variable: Pegagan

Perlakuan	Mean	Std. Deviation	N
A1B1	8.2900	1.54437	30
A1B2	8.5167	1.08535	30
A1B3	8.5067	.98469	30
A2B1	8.3200	1.07876	30
A2B2	7.9867	1.54020	30
A2B3	7.9567	1.37306	30
A3B1	8.7200	.91554	30



A3B2	7.7167	1.56560	30
A3B3	6.9967	2.34925	30
Total	8.1122	1.50616	270

**Tests of Between-Subjects Effects**  
**Interaksi antara ikan lele dan pegagan**

Dependent Variable: Perlakuan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1715.083 <sup>a</sup>	251	6.833	1.448	.180
Intercept	6732.579	1	6732.579	1427.122	.000
Ikan_Lele * Pegagan	1715.083	251	6.833	1.448	.180
Error	84.917	18	4.718		
Total	8550.000	270			
Corrected Total	1800.000	269			

a. R Squared = .953 (Adjusted R Squared = .295)

**Hasil Uji Mutu Sensori Aroma**

Pan elis	A1B1		A1B2		A1B3		A2B1		A2B2		A2B3		A3B1		A3B2		A3B3	
1	8.4	7.4	8.2	4.5	8.5	4.9	8.1	5.9	4.3	7.8	5	4.8	3.9	7.5	3.1	7.6	2.9	7.1
2	4.1	7.4	9.2	5	8.9	6.1	4.1	3.8	8.5	7.4	3.3	3.9	2.1	8.9	2.8	4.8	2.1	3
3	8.9	4.5	9.1	4.2	9	7	8.7	5.7	8	5.1	8.8	6.3	5.9	6.1	6.8	6.8	4	3.2
4	8.5	8.5	8.3	6.9	8.3	6.7	8.1	6.3	8.8	6.2	7.2	6.1	6.9	8.4	2.4	6	1.7	7.1
5	9.6	2.4	9.8	6.9	9.9	4.4	5.9	9.4	8.4	9.5	6.9	4	7.2	5.9	3.8	4.1	2.6	9.7
6	9.8	7.7	8.9	3	9.5	1.6	4.5	4.5	7	2	3.3	2.9	1.8	8.4	2.5	4.3	7	7.6
7	9.1	8	7	7	8	7.5	6	7	4	4.3	5	5	2.6	4.9	4	7	3	2.8
8	8	8	8	8	8	5	7	5	6	5	7	7	6	8	4	7	3.2	7
9	8	8.1	7.9	3.1	8.5	5	7	7	3.3	9	7	8	4	8	3.4	7	2.7	5
10	8	7.8	7.8	6.5	7.2	7	7.1	7	8.9	6	6.6	2.8	3.3	6.5	2.6	7.1	6.5	3.6
11	8.1	8.3	9.1	5	9.3	2.7	8.9	5.2	3.5	3.4	3.2	4.5	2.6	7.4	8.5	1.5	2	5
12	8.5	3.2	5	7.9	8.5	7	4.2	8.8	6.4	5	8.8	5.7	8.6	8.8	1.6	2.8	2.5	7.9
13	9	6.2	8.1	4.5	8.3	2.2	6.5	7.3	3	7.4	3.1	7.6	2.9	7.9	1.9	1.9	1.5	5.9
14	8.8	8.9	6.5	4.1	9	7.6	8	8.4	7.4	3.4	6.1	2.3	5	4.1	1.2	6.5	6.4	2.6
15	8.9	9.5	8.4	8.6	8.5	7.5	8.7	8.8	8.6	9.4	3	4.9	6.6	9.9	5.3	6.6	6.8	7.6

16	9	8	8.8	8.3	9.8	2.7	3.8	8.4	8.4	6.7	6.8	3.7	5.9	5.8	6.1	3.8	1.1	7.1
17	8.6	8	8.5	9.6	8.1	7.5	7.9	8	9.1	9.6	8.6	7.6	2.6	9.7	2.8	6.1	6.8	7.1
18	8	7.7	9.7	7.9	9.4	5.1	7.9	8.4	8	3.3	4.5	5	3.1	9.3	2.6	9.3	5.8	1.5
19	9.6	9.4	8.2	7.6	9.1	2.8	9.2	7.7	9.3	8.9	9.5	9	7.5	7.3	6.1	8.6	3.9	7.3
20	9.5	9.4	9.7	9.4	8	6.5	8.3	5	8.2	7.8	7.9	3.7	9.1	9.3	2.4	6.7	2.6	7.1
21	9.4	7.4	9.4	8.3	8	7	3.2	8	5	1.6	9	9	2.6	4.7	3.2	8	1	3.2
22	7.7	9	8.9	7	8.4	8.3	3	9.2	3.4	8.9	3.1	8.9	2	5	2	2.4	1.6	2
23	9	4.9	8	8.6	7.6	7.8	8	7.2	7	5	6.5	4.7	2.6	9.5	2.3	7	2	2.4
24	7.5	7.5	7.5	7.8	9.6	3.3	6.3	5.5	7.7	5.3	4.2	2.1	3	7.2	5.7	7.3	2	6.3
25	8.9	7.5	9.6	8.5	8.7	3.5	5.9	3.2	6.6	6	6.7	2.7	3.7	8.1	1.7	4.3	5.5	8.3
26	8.7	8.1	8.3	4	9.8	4.9	7.7	3.8	3.2	2.9	8.4	7.4	2.4	5.1	2.4	2.4	2.6	3.1
27	8.7	8.4	9	9.8	8.7	4.4	8.6	5.7	8.4	6.9	8.5	3.9	3	4.2	2.6	7.3	5.3	7.1
28	8	7.9	7.8	7.4	7.5	7.2	7.4	7.4	7.4	8.3	7.3	7.3	6.6	6.7	3.6	6.9	1.5	6.7
29	8.4	7.4	9.7	7.8	8.7	2.6	5.3	9.4	7.9	7.2	6.4	2.5	4.4	8.7	6.8	9	3	7.6
30	8.2	8.3	9.9	9.4	8.6	7.9	7.7	7.5	6.6	5.5	7.8	3.8	5.4	7.7	6.5	5.8	4.6	8.3
Jumlah	25	224	25	206.	25	163.	203	204.	202.	184.	189.	157.	130.		110.	17	10	170.
Rata-rata	4.9	.8	4.3	6	9.4	7		5	3	8	5	1	2	219	7	5.9	4.2	2
	8.4	7.4	8.4		8.6		6.77		6.74		6.32		4.49		3.69	5.8	3.4	
	9	9	8	6.89	5	5.46		6.82		6.16		5.24		7.3	6	7		5.67

### Hasil Uji Statistik SPSS Mutu Sensori Aroma

#### Tests of Between-Subjects Effects

Dependent Variable: Ikan\_Lele

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1011.605 <sup>a</sup>	8	126.451	43.638	.000
Intercept	10850.276	1	10850.276	3744.446	.000
Perlakuan	1011.605	8	126.451	43.638	.000
Error	756.299	261	2.898		
Total	12618.180	270			
Corrected Total	1767.904	269			

a. R Squared = .572 (Adjusted R Squared = .559)

#### Ikan\_Lele Duncan

Perlakuan	N	Subset			
		1	2	3	4
A3B3	30	3.4733			
A3B2	30	3.6900	3.6900		
A3B1	30		4.4433		
A2B3	30			6.3167	

A2B2	30			6.7433	
A2B1	30			6.7667	
A1B2	30				8.4767
A1B1	30				8.4967
A1B3	30				8.6467
Sig.		.622	.088	.339	.719

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 2.898.

a. Uses Harmonic Mean Sample Size = 30.000.

b. Alpha = ,05.

### Descriptive Statistics

Dependent Variable: Ikan\_Lele

Perlakuan	Mean	Std. Deviation	N
A1B1	8.4967	1.02064	30
A1B2	8.4767	1.07661	30
A1B3	8.6467	.70110	30
A2B1	6.7667	1.80294	30
A2B2	6.7433	2.04799	30
A2B3	6.3167	2.06048	30
A3B1	4.4433	2.11280	30
A3B2	3.6900	1.88996	30
A3B3	3.4733	1.91328	30
Total	6.3393	2.56362	270

### Tests of Between-Subjects Effects

Dependent Variable: Pegagan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	164.285 <sup>a</sup>	8	20.536	5.010	.000
Intercept	10786.976	1	10786.976	2631.858	.000
Perlakuan	164.285	8	20.536	5.010	.000
Error	1069.739	261	4.099		
Total	12021.000	270			
Corrected Total	1234.024	269			

a. R Squared = .133 (Adjusted R Squared = .107)

### Pegagan

Duncan

Perlakuan	N	Subset
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		1	2	3
A2B3	30	5.2367		
A1B3	30	5.4567		
A3B3	30	5.6733		
A3B2	30	5.8633	5.8633	
A2B2	30	6.1600	6.1600	
A2B1	30		6.8167	6.8167
A1B2	30		6.8867	
A3B1	30			6.8867
A1B1	30			7.3000
Sig.		.118	.074	7.4933 .244

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 4.099.

a. Uses Harmonic Mean Sample Size = 30.000.

b. Alpha = ,05.

### Descriptive Statistics

Dependent Variable: Pegagan

Perlakuan	Mean	Std. Deviation	N
A1B1	7.4933	1.68726	30
A1B2	6.8867	2.01832	30
A1B3	5.4567	2.03465	30
A2B1	6.8167	1.76637	30
A2B2	6.1600	2.30076	30
A2B3	5.2367	2.13032	30
A3B1	7.3000	1.72107	30
A3B2	5.8633	2.13937	30
A3B3	5.6733	2.31009	30
Total	6.3207	2.14183	270

### Tests of Between-Subjects Effects

Dependent Variable: Perlakuan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1759.333 <sup>a</sup>	256	6.872	2.197	.053
Intercept	6489.228	1	6489.228	2074.425	.000
Ikan_Lele * Pegagan	1759.333	256	6.872	2.197	.053
Error	40.667	13	3.128		
Total	8550.000	270			
Corrected Total	1800.000	269			

a. R Squared = .977 (Adjusted R Squared = .533)

### Hasil Uji Mutu Sensori Tekstur

Pan elis	A1B1		A1B2		A1B3		A2B1		A2B2		A2B3		A3B1		A3B2		A3B3	
1	7.8	7.6	8	9.7	6.8	8	6.3	3.5	5	8.6	5.9	7.9	8	9	6.4	8.4	3.5	5.9
2	10	5.7	9.5	8.6	8.4	6.3	9.8	5.9	8	8.8	8.6	9	9.3	8	7.3	5.7	5.9	8
3	8.8	9.5	9.4	6.7	6.7	7	7.6	9.4	4	8.7	8.3	5.6	9.4	7.9	8.8	8.3	9.4	8
4	8.4	8	5.2	8	9.6	8	5.7	6.8	9.6	7.1	7	6.6	9.4	9	5.8	5.9	6.8	8.9
5	9.7	6.3	9.8	8	8.1	9	9.5	3.8	8.5	8.4	9.3	7	8.3	5.6	9.4	7.8	3.8	8.9
6	8.6	7	6.6	9	10	8	8	10	6.9	5.7	8	4.9	6.9	6.6	6.9	5.1	10	7.4
7	6.7	8	6.6	8.1	8	7.9	6.3	7	7	8.3	5.9	8	10	7	5.9	7.9	7	8.3
8	8	9	8	8.7	8	9	7	8	8	5.9	8	9	7	4.9	6	9.8	8	7.1
9	8	8	7	9.1	8.6	5.6	8	9.2	8.1	7.8	8	8	9.3	8	7	9.6	9.2	9.2
10	9	7.9	8.7	7.9	8.8	6.6	9	8.4	8.2	5.1	8.9	7.9	8	9	7.6	5.4	8.4	7.6
11	8.1	7	8.8	9.9	8.7	7	8	5.6	8.8	7.9	8.9	7	8.6	8	8.1	8.9	8.8	9.5
12	8.7	7.6	7.5	4.4	7.1	4.9	7.9	7.3	5.6	9.8	7.4	3.5	7.7	7.9	8.9	8.9	4.8	8
13	9.1	8.1	8.4	6	8.4	8	9	7.9	7.3	9.6	8.3	5.9	6.4	7	4.9	7.4	6.5	6.3
14	7.9	8.9	8.7	7	5.7	9	5.6	7.3	7.9	5.4	7.1	9.4	8.5	5.4	4.8	8.3	6.5	7
15	5	4.9	9.1	9.6	8.3	8	6.6	6.9	7.3	8	9.2	6.8	6.8	8	4.1	7.1	4.3	8
16	9.6	4.8	6.1	7.8	5.9	7.9	7	7.5	6.9	8	7.6	3.8	6.9	4.2	6.5	9.2	8.9	9
17	4.3	4.1	8.9	5.9	7.8	7	4.9	8.3	7.5	5.7	7.2	10	8	9.5	5.1	7.6	7.6	8
18	7.5	6.5	7.3	8.6	8.4	7.6	7.8	9.6	8.3	9.4	7.7	7	7.6	9.9	7.9	4.3	7.2	7
19	9.6	5.1	9.8	8.3	9.6	8.1	9.4	9.5	9.6	4.6	9.2	8	9.6	4.4	9.8	8.9	8	9.3
20	9.5	7.9	6.4	7	9.7	8.9	9.9	7	9.5	7.7	9.6	9.2	9.5	6	9.6	7.6	9.7	8
21	7.1	9.8	8.6	9.3	9	4.9	8	10	7	8.7	5.6	8.4	7.7	7	5.4	7.2	5.4	5.9
22	4	8.3	8	8	8	4.8	9	7	7.8	8.8	8.1	8.8	8	9.6	8	8	8	8
23	10	9.6	4	5.9	9	4.1	5.8	9.3	6.1	7.5	8	8	8	7.8	8	9.7	4.2	8
24	6.4	9.5	6.8	8	6.8	6.5	9.2	8	7	8.4	7.8	9	7.8	5.2	5.7	5.4	9.5	8.9
25	6	7	9.5	8	9.9	5.1	9.9	8.6	9.9	8.7	4.7	8	9.5	9.8	9.4	8	9.9	8.9
26	8.9	7.8	9.8	8.9	9.6	7.9	5.6	7.7	8.4	9.1	9.6	7.9	9.3	6.6	4.6	4.2	4.4	7.4
27	9.8	6.1	9	8.9	8.7	6.4	8.6	6.4	5.7	6.1	9	7	6.3	6.6	7.7	9.5	6	5.4
28	8	7	7.8	7.4	7.9	7.3	7.5	8.5	7.4	8.9	7.3	7.6	6.5	8	7	9.9	7	8
29	9.7	9.9	9.6	8.3	9.2	8.8	9	6.8	9.3	7.3	8.5	8.1	9.7	7	4.2	8	9.6	8
30	8.1	8.4	9.7	7.1	7.6	5.8	7	6.9	8.3	9.8	6	8.9	8.7	8.7	7.9	7.8	7.8	5.7
Jumlah	24	225	24	238,	24	213,	232.	228,	228.	233,	234.	226,	246.	221,	208.	22	21	233 ,
Rata	8.0	7,5	8.0		8.2						7.82		8.22				7.2	
rata	8	4	9	7,87	8	7,15	7.76	7,84	7.63	7,65		7,42		7,25	6.96	7,7	03	7,92

## Hasil Uji Statistik SPSS Mutu Sensori Tekstur

### Tests of Between-Subjects Effects

Dependent Variable: Ikan\_Lele

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	49.809 <sup>a</sup>	8	6.226	2.836	.005
Intercept	16352.005	1	16352.005	7448.486	.000
Perlakuan	49.809	8	6.226	2.836	.005
Error	572.985	261	2.195		
Total	16974.800	270			
Corrected Total	622.795	269			

a. R Squared = .080 (Adjusted R Squared = .052)

### Tests of Between-Subjects Effects

Dependent Variable: Pegagan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	14.481 <sup>a</sup>	8	1.810	.828	.579
Intercept	15563.296	1	15563.296	7115.703	.000
Perlakuan	14.481	8	1.810	.828	.579
Error	570.853	261	2.187		
Total	16148.630	270			
Corrected Total	585.334	269			

a. R Squared = .025 (Adjusted R Squared = -.005)

### Tests of Between-Subjects Effects

Dependent Variable: Perlakuan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1533.700 <sup>a</sup>	234	6.554	.861	.744
Intercept	6154.075	1	6154.075	808.834	.000
Ikan_Lele * Pegagan	1533.700	234	6.554	.861	.744
Error	266.300	35	7.609		
Total	8550.000	270			
Corrected Total	1800.000	269			

a. R Squared = .852 (Adjusted R Squared = -.137)

Ikan\_Lele dan pegagan Duncan

Perlakuan	N	Subset		
		1	2	3
A3B2	30	6.9567		
A3B3	30	7.2033	7.2033	
A2B2	30	7.6300	7.6300	7.6300
A2B1	30	7.7633	7.7633	7.7633
A2B3	30		7.8233	7.8233
A1B1	30			8.0767
A1B2	30			8.0867
A3B1	30			
A1B3	30			8.2233
Sig.		.054	.142	8.2767 .150

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 2.195.

a. Uses Harmonic Mean Sample Size = 30.000.

b. Alpha = .05.

Descriptive Statistics

Dependent Variable: Ikan\_Lele dan pegagan

Perlakuan	Mean	Std. Deviation	N
A1B1	8.0767	1.62898	30
A1B2	8.0867	1.48225	30
A1B3	8.2767	1.13219	30
A2B1	7.7633	1.45329	30
A2B2	7.6300	1.39658	30
A2B3	7.8233	1.24891	30
A3B1	8.2233	1.10756	30
A3B2	6.9567	1.68230	30
A3B3	7.2033	1.98659	30
Total	7.7822	1.52159	270

Lampiran 6. Skor Hedonik Panelis Terhadap Stik Lele Pegagan

Hasil Uji Mutu Hedonik Warna

Pan- elis	A1B1		A1B2		A1B3		A2B1		A2B2		A2B3		A3B1		A3B2		A3B3	
	7.9	8.5	4.7	3.8	5.4	8	9.5	2.9	3.7	9.2	4.5	3.4	5.5	7.4	4.3	7.4	4.3	9.1
1	7.9	8.5	4.7	3.8	5.4	8	9.5	2.9	3.7	9.2	4.5	3.4	5.5	7.4	4.3	7.4	4.3	9.1
2	9.1	10	8.8	6.3	8.7	7.5	9.2	5	8.9	5.4	8.9	8.7	9.5	6.9	9.3	8	3.4	5.6

3	8.4	8	5.6	8.2	7.4	6.2	5.7	7.1	5.6	9.3	9.2	4.9	5.9	9.5	5.5	7	6.7	9.4
4	7.6	9	9.3	4.5	5.8	3.4	9.2	7.4	9.2	7	5.4	8.5	9.6	7	9.9	7.4	5.7	6.8
5	9.5	7.1	8	8.9	9	8.7	8.5	9.1	7.9	2.9	9.3	6.2	4.5	7.6	6	6.9	9.3	6.5
6	9	7.4	8	9.2	7.4	4.9	10	5.6	5.9	5	7	8.7	5.1	2.9	10	9.5	3	8
7	9	9.1	7	5.4	8	8.5	8	9.4	10	8	2.9	4	10	5.5	7	7	10	3.8
8	8	5.6	8	9.3	7	6.2	9	6.8	8	7	5	7.1	7	8.5	8	7.6	5	6.3
9	9	9.4	8.5	7	7.4	8.7	7.1	6.5	7.5	5	8	8.1	8	4.5	7.4	2.9	8	8.2
10	8.7	6.8	7.8	2.9	6.9	4	7.4	8	6.2	7.7	7	10	9.1	8.4	6.7	4.5	4.8	6
11	9.3	6.5	8.8	5	9.5	7.1	9.1	3.8	3.4	9.5	5	7	7.7	8.3	6	5.1	5.8	7.4
12	8.7	8	8.1	7.1	7	8.1	5.6	6.3	8.7	8.2	7.7	8	6.4	5.7	7.1	10	3.3	8
13	9.7	3.8	9.3	7.4	7.6	5.6	9.4	8.2	4.9	4.5	6.1	9.1	8.3	9.2	5.3	7	3.7	7
14	6.7	6.3	7.6	9.1	2.9	9.3	6.8	6	8.5	8.9	6.7	7.7	8.8	8.5	6.4	8	6.5	6.2
15	7.9	8.2	9.5	5.6	5.5	8	6.5	7.4	6.2	9.2	3.2	6.4	7.1	10	4.4	9.1	2.7	8.7
16	6.7	4.5	4.7	9.4	8.5	8	8	8	8.7	5.4	6	8.3	5.5	8	3.4	7.7	5.6	4
17	6.9	8.9	6.3	6.8	4.5	7	3.8	7	4	9.3	4.7	8.8	7.6	9	7.6	6.4	7.5	7.1
18	8.7	9.2	8.3	6.5	8.4	8	6.3	7.4	7.1	7	6	7.1	5.8	7.1	8	8.3	8	8.1
19	9.3	5.4	8.2	8	8.3	8.5	8.2	6.9	8.1	2.9	8.1	5.5	8.4	7.4	4	8.8	6.3	10
20	8.6	9.3	7.9	3.8	5	7.8	9.2	9.5	8.3	5	9.5	7.6	9.5	9.1	5	7.1	3	7
21	7	7	4	6.3	7	8.8	9.2	7	7.5	7.1	7.3	5.8	6.5	5.6	8	5.5	8	8
22	7	2.9	5	8.2	5.2	8.1	7.1	7.6	4	7.4	8	7.4	8	6.5	4.7	7.6	2.6	9.1
23	7.3	5	7	6	7.2	6.3	7.7	2.9	6.3	9.1	2.9	9.1	8.7	8	6.6	6.7	4.8	4
24	6.6	8	5.2	7.1	5.6	3	9.5	5.5	7	9.3	4	5.6	7.5	3.8	6	5.7	7.3	7.1
25	9	7	8.7	5.3	9.4	8	8.3	8.5	3.9	8	5.8	9.4	7.7	6.3	4.6	9.3	5.5	8.1
26	10	5	10	6.4	10	2.6	7.7	4.5	5.3	8	8.8	6.8	4.6	8.2	4.5	3	6.2	5.6
27	5.9	7.7	8.7	4.4	9.1	4.8	9.2	8.4	8.7	7	8.6	6.5	8.9	6	8.8	10	6.4	9.3
28	7.6	9.5	8.4	3.4	8.5	7.3	6.9	6.3	6.6	8	6.8	8	5.5	7.4	5.2	5	5.6	8
29	9.6	8.3	8.7	7.6	9.5	5.5	6.5	3	5.8	8.5	7.1	3.8	6.1	8	5.6	8	8.1	8
30	8.5	7.7	8.4	8	9.6	6.2	7.2	8	5.5	7.8	6.4	6.3	8	7	7.4	4.8	6.1	7
Jumlah	247.2	219.1	228.5	196.9	221.3	201.4	235.8	200	201.4	216.6	195.9	213.8	220.8	217.3	192.7	211.3	173.2	217.4
Rata-rata	8.24	7.14	7.62	7.38	7.38	6.75	7.86	6.81	6.71	7.19	6.53	7.23	7.36	7.25	6.42	7.07	5.78	7.24

Lampiran 7. Hasil uji ANOVA Hedonik warna

Tests of Between-Subjects Effects

Dependent Variable: Ikan\_Lele

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	153.134 <sup>a</sup>	8	19.142	6.709	.000
Intercept	13570.969	1	13570.969	4756.453	.000
Perlakuan	153.134	8	19.142	6.709	.000



Error	744.677	261	2.853		
Total	14468.780	270			
Corrected Total	897.811	269			

a. R Squared = .171 (Adjusted R Squared = .145)

Tests of Between-Subjects Effects

Dependent Variable: Pegawai

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	18.710 <sup>a</sup>	8	2.339	.732	.663
Intercept	13357.707	1	13357.707	4183.431	.000
Perlakuan	18.710	8	2.339	.732	.663
Error	833.374	261	3.193		
Total	14209.790	270			
Corrected Total	852.083	269			

a. R Squared = .022 (Adjusted R Squared = -.008)

Tests of Between-Subjects Effects

Dependent Variable: Perlakuan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1631.500 <sup>a</sup>	248	6.579	.820	.005
Intercept	6495.200	1	6495.200	809.491	.000
Pegagan * Ikan_Lele	1631.500	248	6.579	.820	.035
Error	168.500	21	8.024		
Total	8550.000	270			
Corrected Total	1800.000	269			

a. R Squared = .906 (Adjusted R Squared = -.199)

#### Ikan\_Lele dan pegagan Duncan

Perlakuan	N	Subset				
		1	2	3	4	5
A3B3	30	5.7733				
A3B2	30	6.3367	6.3367			
A2B3	30	6.5300	6.5300	6.5300		
A2B2	30		6.7133	6.7133	6.7133	
A3B1	30			7.3600	7.3600	7.3600
A1B3	30			7.3767	7.3767	7.3767
A1B2	30				7.6167	7.6167
A2B1	30					7.8600
A1B1	30					8.2400
Sig.		.102	.420	.077	.058	.073

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 2.853.

a. Uses Harmonic Mean Sample Size = 30.000.

b. Alpha = ,05.

### Descriptive Statistics

Dependent Variable: Ikan\_Lele

Perlakuan	Mean	Std. Deviation	N
A1B1	8.2400	1.09217	30
A1B2	7.6167	1.59916	30
A1B3	7.3767	1.75788	30
A2B1	7.8600	1.45261	30
A2B2	6.7133	1.84461	30
A2B3	6.5300	1.91962	30
A3B1	7.3600	1.58888	30
A3B2	6.3367	1.78470	30
A3B3	5.7733	1.98267	30
Total	7.0896	1.82691	270

### Hasil Uji Mutu Hedonik Rasa

Panelis	A1B1		A1B2		A1B3		A2B1		A2B2		A2B3		A3B1		A3B2		A3B3	
1	7.3	7	5.2	8	8.9	5.4	5.6	7	3.4	5.6	4.5	9.4	5	3.2	7.3	5.9	4.3	5.4
2	8.5	10	9.3	8.5	8	9.3	9.7	7.3	8.9	9.4	4	7.3	5.3	8	2.3	9.5	4.4	9.3
3	9.4	7	5.6	8.9	5.8	5.5	9.2	8	5.6	7.3	9.3	3.2	9.2	5	9.4	6.5	5.9	5.5
4	8.4	7.3	9.7	9.3	9.3	8	5.7	7.4	9.4	3.2	5.4	8	5.9	6.1	5.3	5.9	5.9	8
5	8.7	8	7	7.8	8.4	7	9.5	6.4	7.3	8	9.3	5	9.5	3.3	5.8	9	9.5	7
6	9.4	7.4	10	8.2	8	4	8.4	8.9	3.2	5	5.5	6.1	6.5	8	5.8	6	2.7	4
7	9.5	6.4	7	7	7.5	5	6.5	3.5	8	6.1	8	3.3	5.9	5.8	8	6.5	5	5
8	7	8.9	7.3	6.4	7.5	5.2	6	6.4	5	3.3	7	8	9	7.9	7	6.8	5	5.2
9	8	3.5	8	8.6	7.6	8	7	7.9	6.1	8	4	5.8	6	6.3	2	8.9	7	8
10	8.5	6.4	7.4	7.3	9.4	6.6	7	6.8	3.3	5.8	5	8.8	6.5	5.5	6.4	4	7.6	6.6
11	8.9	7.9	6.4	7.9	6.8	7.3	8	8.1	8	7.9	5.2	8.1	6.8	8	4.2	8.4	4	7.3
12	9.3	6.8	8.9	10	7.6	2.6	7.7	5.6	5.8	6.3	8	9.7	8.9	7	7.3	9.5	6.3	2.6
13	7.8	8.1	3.5	6.1	10	6.7	7.6	9.4	7.9	5.5	6.6	9.2	4	8	1.6	6.5	4.8	6.7
14	8.2	5.6	6.4	8.8	6.1	8.7	7.2	7.3	6.3	8	7.3	5.7	8.4	7.4	4.2	5.9	6.1	8.7
15	7	9.7	7.9	8.1	8.8	7.8	7.7	3.2	8.2	7	2.6	9.5	5.1	6.4	5.4	9	9	8

16	6.4	9.2	6.8	5.7	8.1	3.5	7.9	8	3.8	4	6.7	8.4	6.5	8.9	7.8	6	2.9	7.4
17	8.6	5.7	8.1	8.3	5.7	4.3	5.9	5	7.2	5	8.7	6.5	6.7	3.5	3.5	6.5	5.7	6.4
18	7.3	9.5	7.6	7.5	8.3	7.2	7.7	6.1	7.5	5.2	4.9	6	4.5	6.4	4.3	6.8	7.5	8.9
19	7.9	8.4	8	9.5	7.5	9.8	7.8	3.3	9.7	8	6.4	7	5.1	7.9	7.2	8.9	8.8	3.5
20	9.6	6.5	8.7	7.9	9.5	4.9	9.7	8	7.2	6.6	7.6	7	8	6.8	9.8	4	6.3	6.4
21	7.5	6	3	7.5	7.9	5	9.2	5.8	5	7.3	9.6	8	9.7	8.1	4.9	8.4	3	7.9
22	6	7	5	4.5	7.5	3.2	8	8.8	5.1	3.5	9	7.7	6.2	5.6	5	5.1	8	6.8
23	6.6	7	5.4	4	6.5	8.1	6	8.1	5.6	6.4	5.6	7.6	8	9.4	3.2	6.5	4.4	8.1
24	9.2	8	7.8	9.3	7.6	2.8	8.1	5.7	7.3	7.9	3.8	3.3	6.7	7.3	8.1	6.7	4.6	5.6
25	7.2	7.7	7.7	5.4	7.9	6.4	6.8	8.3	7.9	6.8	7.8	8	8.7	3.2	2.8	4.5	8.5	9.4
26	10	7.6	9.2	9.3	10	8.1	7.8	7.5	6.6	8.1	5.4	5.8	8.8	8	6.4	8.6	4.6	7.3
27	8.2	8	9.6	5.5	9.1	5.7	9.3	9.5	9.4	7.6	9.3	7.9	8.8	5	8.1	7.3	6.4	3.2
28	8	7.5	8	8	7.8	8.3	7.8	7.9	7.7	8,8	8.1	6.3	6.7	6.1	6.1	7.9	8.8	8
29	9.6	7.5	8.8	7	7.9	7.5	7.6	7.5	8.4	8.7	5.5	8.2	4.3	3.3	2.9	9.6	6.3	5
30	8.4	7.6	8.5	4	7.6	9.5	7.7	6.5	6.6	6	6.9	3.8	6.7	7	5.8	7.5	5.8	6.1
Jumlah	24	223	21	224,	23	191,	230.	209,	201.	187,		208,	207.	192,	167.	21	17	197,
Rata	6.4	,2	3.8	3	8.6	4	1	2	4	5	197	6	4	4	9	2,6	9.1	3
Rata	8.2	7,3	7.3		7.9											7,0	5.9	
	1	5	7	7,54	5	6,19	7.67	6,97	6.71	6,40	6.57	6,96	6.91	6,45	5.54	2	7	6,53

## Hasil Uji Statistik SPSS Mutu Hedonik Rasa

### Tests of Between-Subjects Effects

Dependent Variable: Ikan\_Lele

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	441.511 <sup>a</sup>	8	55.189	2.056	.041
Intercept	14369.326	1	14369.326	535.321	.000
Perlakuan	441.511	8	55.189	2.056	.041
Error	7005.873	261	26.842		
Total	21816.710	270			
Corrected Total	7447.384	269			

a. R Squared = .059 (Adjusted R Squared = .030)

### Tests of Between-Subjects Effects

Dependent Variable: Pegagan

Source	Type III Sum of Squares	Df	Mean Square	F	Sig.
Corrected Model	175.844 <sup>a</sup>	8	21.981	.797	.605
Intercept	13860.334	1	13860.334	502.732	.000
Perlakuan	175.844	8	21.981	.797	.605
Error	7195.772	261	27.570		
Total	21231.950	270			

Corrected Total	7371.616	269		
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a. R Squared = .024 (Adjusted R Squared = -.006)

### Tests of Between-Subjects Effects

Dependent Variable: Perlakuan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1723.000 <sup>a</sup>	257	6.704	1.045	.049
Intercept	6562.683	1	6562.683	1022.756	.000
Pegagan * Ikan_Lele	1723.000	257	6.704	1.045	.049
Error	77.000	12	6.417		
Total	8550.000	270			
Corrected Total	1800.000	269			

a. R Squared = .957 (Adjusted R Squared = .041)

### Ikan\_Lele dan pegagan

Duncan

Perlakuan	N	Subset	
		1	2
A3B2	30	5.5967	
A3B3	30	5.9700	
A2B3	30	6.5667	
A2B2	30	6.7133	
A3B1	30	6.9133	
A2B1	30	7.6700	7.6700
A1B3	30	7.9533	7.9533
A1B1	30	8.2133	8.2133
A1B2	30		10.0600
Sig.		.098	.105

Means for groups in homogeneous subsets are displayed.

Based on observed means. The error term is Mean Square(Error) = 26.842. a. Uses Harmonic Mean Sample Size = 30.000.

b. Alpha = .05.

### Descriptive Statistics

Dependent Variable: Ikan\_Lele dan pegagan

Perlakuan	Mean	Std. Deviation	N
A1B1	8.2133	1.05135	30
A1B2	10.0600	14.82285	30

A1B3	7.9533	1.11254	30
A2B1	7.6700	1.17595	30
A2B2	6.7133	1.83730	30
A2B3	6.5667	1.91083	30
A3B1	6.9133	1.67079	30
A3B2	5.5967	2.18829	30
A3B3	5.9700	1.87932	30
Total	7.2952	5.26170	270

### Hasil Uji Mutu Hedonik Aroma

Pan elis	A1B1		A1B2		A1B3		A2B1		A2B2		A2B3		A3B1		A3B2		A3B3	
1	8.4	8.6	4.8	2.8	7.3	8.7	5.9	9	6.1	8.9	4.6	7	4.9	9.2	2.4	8.3	5.5	6
2	6.4	8	9.1	7.8	8.2	4.8	8.2	7.2	8.9	3.2	9.2	7	5.9	5.4	5.5	7.6	2.1	3
3	8.6	8	5.6	8.9	5.8	9.1	9.2	7	5.6	4.6	5.4	5	8.9	9.2	4.8	4.9	6.3	5.8
4	8.4	7	9.3	8.4	9	5.6	5.7	7	9.6	8	9.2	7.3	3.2	5.7	2.7	9.5	6	3.8
5	8.3	8.7	6.6	8.5	7.2	9.3	9.2	7.5	5.1	7	5.7	6.8	4.6	8	10	8.8	2.4	7.5
6	9.5	7.8	8	9.9	7	6.6	7.8	8	8	6.5	8	8.9	8	7	6	8.3	2.7	3.7
7	8.6	9.3	5	9.2	7	8	7	5.8	7	8	7	8.2	7	7	3	9.7	5	4.4
8	8	8.1	7	8	7.5	5	7	9.4	7.1	5.2	7	2.8	6.5	5	5.8	8.2	7	1.4
9	8	9.1	6.9	6.1	8	7	5	6.8	5.1	7.9	5	7.8	8	7.8	3.8	7.9	5	6.4
10	7	8.3	9	8.3	5.8	6.9	7.3	7.6	8.9	3.4	7.8	8.9	5.2	8.3	7.5	8	6.4	9.5
11	8.7	8.7	7.4	8.3	9.4	7.3	6.8	8.9	4.4	8.6	8.3	4.9	7.9	4.9	3.7	5.4	6.4	3.8
12	7.8	4.8	8.9	10	6.8	8.2	8.9	5.6	9.1	6.4	7.6	5.9	3.4	5.9	4.4	4.2	7.8	5.6
13	9.3	9.1	7.9	7.3	7.6	5.8	8.2	9.6	7.6	5.6	4.9	8.9	8.6	8.9	1.4	2.4	3	6.8
14	8.1	5.6	9.2	8	8.1	9	2.8	5.1	8.4	6.1	9.5	3.2	6.4	3.2	6.4	5.5	4.8	5.5
15	9.1	9.3	5.7	5	6.6	7.2	7.8	8	5.6	8.9	8.8	4.6	5.6	4.6	9.5	4.8	6.5	2.1
16	8.3	6.6	8.9	7	9.5	7	8.9	7	6.4	5.6	8.3	8	5.4	8	3.8	2.7	3.9	6.3
17	8.7	8	8.7	6.9	5.9	7	8.4	7.1	9	9.6	9.7	7	6.7	7	5.6	10	2.5	6
18	7.6	5	9.6	9	8.6	7.5	8.5	5.1	9.1	5.1	8.2	6.5	8.6	6.5	6.8	6	7.3	2.4
19	6	7	8.1	7.4	6	8	9.9	8.9	7	8	7.9	8	8.6	8	4.4	3	8.6	2.7
20	8.8	6.9	5	8.9	9.4	5.8	9.2	4.4	5	7	8	5.2	3.4	5.2	6	5.8	5.4	5
21	7.5	9	8	7.9	6.8	9.4	8	9.1	8	7.1	5.4	7.9	6	7.9	3	3.8	5	7
22	6	7.4	4.6	9.2	7.7	8.9	6.1	9.2	8	5.1	4.2	4.4	8	3.4	7	7.5	8	5
23	7	8.9	7.9	5.7	7.7	8.2	8.3	8	5.4	8.9	7.8	1.4	7.2	8.6	2.8	3.7	4.4	6.4
24	9.3	7.9	7.2	8.9	6.8	2.8	8.3	6.1	7.3	4.4	5.4	6.4	3.5	4.4	7.5	4.4	6	6.4
25	10	9.2	9.7	8.7	10	7.8	10	8.3	8.9	5.1	9.7	9.5	4.2	1.4	3.2	4.8	2.5	7.8
26	8.3	5.7	6.2	6	7.9	8.9	7.3	8.3	6	8	9.2	3.8	6.7	6.4	8.3	6.5	2.5	3
27	8.4	8.6	8	9.4	8	8.4	8.2	10	7.3	7	7.8	5.6	6.7	9.5	6.8	3.9	6.3	5.6
28	9.5	6	8.8	6.8	7.8	10	5.1	5.4	8.5	7.1	5.6	6.8	4.4	3.8	2.7	2.5	6.1	6.8
29	8.3	9.4	8.1	7.7	7.8	7.3	7.4	7.3	7.2	5.1	6.6	4.4	6.3	5.6	5.6	7.3	6.2	4.4
30	8.1	6.8	7.6	7.7	7.7	8.2	7.7	8.9	7.3	8.9	7.4	8	6.3	6.8	5.2	8.6	5.3	6

Jumlah	246	232,8	226,8	233,7	228,9	223,7	228,1	225,6	216,9	200,3	219,2	190,1	186,1	192,6	155,6	184	156,9	156,1
Rata-rata	8,2	7,75	7,56	7,97	7,63	7,48	7,6	7,42	7,23	6,64	7,31	6,22	6,2	6,34	6,19	5,90	5,23	5,22

## Hasil Uji Statistik SPSS Mutu Hedonik Aroma

### Tests of Between-Subjects Effects

Dependent Variable: Ikan\_Lele

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	289.108 <sup>a</sup>	8	36.138	14.212	.000
Intercept	12875.408	1	12875.408	5063.302	.000
Perlakuan	289.108	8	36.138	14.212	.000
Error	663.694	261	2.543		
Total	13828.210	270			
Corrected Total	952.802	269			

a. R Squared = .303 (Adjusted R Squared = .282)

### Tests of Between-Subjects Effects

Dependent Variable: Pegagan

Source	Type III Sum of Squares	Df	Mean Square	F	Sig.
Corrected Model	186.551 <sup>a</sup>	8	23.319	7.204	.000
Intercept	12524.271	1	12524.271	3869.138	.000
Perlakuan	186.551	8	23.319	7.204	.000
Error	844.848	261	3.237		
Total	13555.670	270			
Corrected Total	1031.399	269			

a. R Squared = .181 (Adjusted R Squared = .156)

### Tests of Between-Subjects Effects

Dependent Variable: Perlakuan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1728.750 <sup>a</sup>	249	6.943	1.949	.040
Intercept	6586.544	1	6586.544	1848.855	.000
Ikan_Lele * Pegagan	1728.750	249	6.943	1.949	.040
Error	71.250	20	3.563		
Total	8550.000	270			
Corrected Total	1800.000	269			

a. R Squared = .960 (Adjusted R Squared = .468)

Ikan\_Lele dan pegagan Duncan

Perlakuan	N	Subset			
		1	2	3	4
A3B2	30	5.1867			
A3B3	30	5.2300			
A3B1	30		6.2033		
A2B2	30			7.2300	
A2B3	30			7.3067	7.3067
A1B2	30			7.5600	7.5600
A2B1	30			7.6033	7.6033
A1B3	30			7.6300	7.6300
A1B1	30				8.2000
Sig.		.916	1.000	.397	.053

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 2.543.

a. Uses Harmonic Mean Sample Size = 30.000.

b. Alpha = .05.

Descriptive Statistics

Dependent Variable: Ikan\_Lele dan pegagan

Perlakuan	Mean	Std. Deviation	N
A1B1	8.2000	.98436	30
A1B2	7.5600	1.52216	30
A1B3	7.6300	1.11019	30
A2B1	7.6033	1.57841	30
A2B2	7.2300	1.47792	30
A2B3	7.3067	1.65403	30
A3B1	6.2033	1.71514	30
A3B2	5.1867	2.16074	30
A3B3	5.2300	1.82910	30
Total	6.9056	1.88202	270

### Hasil Uji Mutu Hedonik Tekstur

Pan elis	A1B1		A1B2		A1B3		A2B1		A2B2		A2B3		A3B1		A3B2		A3B3	
1	8.1	5.7	5.4	8	8.9	6	5.8	9.6	5.3	7	4.2	9.8	9.3	7	7.8	7.9	4.4	7.5
2	9.7	9.7	9.8	9	7.9	8	9.2	7.4	9.1	10	8.2	7.6	9.3	7	5.3	8	6.1	6.1
3	9.4	6.2	9.1	8.1	5.8	9	5.7	5.3	5.6	8	9.4	10	6	8	9.4	7.7	9.8	9.8
4	8.4	10	5.7	8.1	9.8	8.1	9.5	10	9.7	8	5.4	7	9.2	8.5	5.8	9.7	6	6.7
5	9.5	8	9.7	8.9	8.8	8.1	8.5	8	6.4	9	9.6	8	6.7	8.1	9.8	6.1	7	5.9
6	9.5	9	6.2	7.2	7	8.9	5.7	8	8	7.5	7.4	6.7	7	7.9	7.6	7.3	7	9.3
7	6.5	8.4	10	7.7	7	7.2	6	5	6	8.8	5.3	5.9	10	6.5	10	7.6	8	9.8
8	9	9	8	7.2	8	7.7	8	8.8	8.7	8	10	7.5	8	6.5	7	7.5	8.5	10
9	8	8.4	9	6.7	7.3	7.2	9	8.6	7.9	7.5	8	6.1	8	4.8	8	8.5	8.1	6.4
10	8	8.4	8.4	7.2	8	6.7	8.1	7.2	8	8.3	8	9.8	9	4.3	6.7	9.8	7.9	8.5
11	8.7	8.8	9	5.4	9.5	7.2	8.1	9.5	7.7	6	5	6.7	7.5	9.3	5.9	9.4	6.5	9.5
12	8.8	6.6	8.4	9.8	7.1	8.1	8.9	8.5	9.7	5.3	8.8	5.9	8.8	7.6	7.5	5	6.5	8.2
13	9.4	8.1	8.4	9.1	7.6	8.9	7.2	5.7	6.1	9.1	8.6	9.3	8	7.1	6.1	9.1	4.8	7.2
14	8.1	7.2	8.8	5.7	6.7	7.9	7.7	6	7.3	5.6	7.2	9.8	7.5	7.4	6.6	6.9	4.3	7.7
15	7.1	9	6.6	9.7	8.5	5.8	7.2	8	7.6	9.7	6.7	10	8.3	9.3	5.2	7.3	9.3	7.2
16	8.2	8.6	8.1	6.2	7	9.8	6.7	9	7.5	6.4	8.4	6.4	6	9.3	9.2	7.8	7.6	6.7
17	7.9	8.1	7.2	10	8.3	8.8	7.2	8.1	8.5	8	7.8	8.5	8.4	6	7.1	5.3	7.1	4.4
18	5.6	9.7	9	8	9.7	7	8.1	8.1	9.8	6	7.1	9.5	6.8	9.2	3.7	9.4	7.4	6.1
19	8	9.4	8.6	9	9.8	7	9.9	8.9	9.4	8.7	8.2	8.2	8.4	6.7	7.4	5.8	9.6	9.8
20	9.5	8.4	5.8	8.4	9.5	8	9.7	7.2	5	7.9	9.5	7.2	9.8	7	9.4	9.8	4	6
21	9.8	9.5	9.8	9	7	7.3	7.9	8	9.1	8	9.5	7.7	8.7	10	9.6	7.6	7	7
22	6.7	9.5	5	8.4	8	8	8	9	6.9	7.7	7.5	7.2	8	8	5.2	10	5.5	7
23	5.9	6.5	8	8.4	5.8	9.5	6.6	8.1	7.3	9.7	8	6.7	7.2	8	8	7	4.7	8
24	9.3	9	9.5	7.6	5.5	7.1	9.5	8.1	5.2	6.1	5.8	7.2	7.6	9	8	8	8.5	8.5
25	9.8	8	9.8	6.7	9.7	7.6	9.8	8.9	9.4	8.4	9.7	8.1	9.7	7.5	3.4	6.7	9.7	8.1
26	10	8	7.4	8.5	10	6.7	9.4	7.2	9.7	7.8	9.3	9.9	9.7	8.8	6.4	5.9	5.3	7.9
27	6.4	8.7	9.6	7	9.1	6.7	7.4	7.7	8.4	7.1	9.6	9.7	5	8	9.6	7.5	8.9	6.5
28	8.5	8.8	8.5	8.3	8.6	8.5	8.4	7.2	8	8.2	9	7.9	6.9	7.5	8.2	6.1	7	6.5
29	9.5	9.4	8.8	9.7	9.3	7	7.8	6.7	9.5	9.3	8.6	8	8.9	8.3	7.1	6.6	9	4.8
30	8.2	8.1	8.2	9.8	7	8.3	5.2	7.2	8	9.6	8.3	6	8.3	6	7.1	5.2	9	4.3
Jumlah	25	252	24	242,	24	232,	236.		234.	236,	238.	238,		228,	218.	22	21	221
Rata	8.3	8,4	8.1		8.0											7,6	7.1	
rata	8	7	9	8	7	7,77	7.87	7,80	7.83	7,78	7.94	7,95	8.07	7,72	7.27	0	5	7,53



Hasil Uji Statistik SPSS Mutu Hedonik Tekstur

Tests of Between-Subjects Effects

Dependent Variable: Ikan\_Lele

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	39.974 <sup>a</sup>	8	4.997	2.343	.019
Intercept	16696.216	1	16696.216	7829.295	.000
Perlakuan	39.974	8	4.997	2.343	.019
Error	556.591	261	2.133		
Total	17292.780	270			
Corrected Total	596.564	269			

a. R Squared = .067 (Adjusted R Squared = .038)

Tests of Between-Subjects Effects

Dependent Variable: Pegagan

Source	Type III Sum of Squares	Df	Mean Square	F	Sig.
Corrected Model	22.561 <sup>a</sup>	8	2.820	1.686	.102
Intercept	16545.574	1	16545.574	9889.937	.000
Perlakuan	22.561	8	2.820	1.686	.102
Error	436.645	261	1.673		
Total	17004.780	270			
Corrected Total	459.206	269			

a. R Squared = .049 (Adjusted R Squared = .020)

Tests of Between-Subjects Effects

Dependent Variable: Perlakuan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1727.167 <sup>a</sup>	247	6.993	2.112	.020
Intercept	6528.413	1	6528.413	1971.969	.000
Ikan_Lele * Pegagan	1727.167	247	6.993	2.112	.020
Error	72.833	22	3.311		
Total	8550.000	270			
Corrected Total	1800.000	269			

a. R Squared = .960 (Adjusted R Squared = .505)

Ikan\_Lele dan pegagan Duncan

Perlakuan	N	Subset		
		1	2	3
A3B3	30	7.1500		
A3B2	30	7.2700	7.2700	

A2B2	30	7.8267	7.8267	7.8267
A2B1	30	7.8733	7.8733	7.8733
A2B3	30	7.9367	7.9367	7.9367
A3B1	30		8.0667	8.0667
A1B3	30		8.0733	8.0733
A1B2	30			
A1B1	30			8.1933
Sig.		.063	.062	8.3833 .211

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 2.133.

a. Uses Harmonic Mean Sample Size = 30.000.

b. Alpha = .05.

### Descriptive Statistics

Dependent Variable: Ikan\_Lele dan pegagan

Perlakuan	Mean	Std. Deviation	N
A1B1	8.3833	1.22758	30
A1B2	8.1933	1.42658	30
A1B3	8.0733	1.30963	30
A2B1	7.8733	1.34855	30
A2B2	7.8267	1.47693	30
A2B3	7.9367	1.54082	30
A3B1	8.0667	1.24273	30
A3B2	7.2700	1.73903	30
A3B3	7.1500	1.73001	30
Total	7.8637	1.48920	270

### Hasil Uji Mutu Hedonik *Over all*

Pan- elis	A1B1		A1B2		A1B3		A2B1		A2B2		A2B3		A3B1		A3B2		A3B3	
	7.4	5.8	5.4	6	7	6.5	5.8	5.4	9.6	5	5.1	7	5.4	5	6.3	5.5	4.3	7.3
1	7.4	5.8	5.4	6	7	6.5	5.8	5.4	9.6	5	5.1	7	5.4	5	6.3	5.5	4.3	7.3
2	9.7	9.8	5.1	8	8.4	8.4	8.5	7.3	5.6	4.8	4.4	9.3	4.2	6.3	5	7.5	3.3	2.5
3	8.4	7	9.7	7.5	9.5	8.4	9.5	2.5	6.3	8.4	9.5	5.2	6	5.8	9.5	6.6	4.7	6.3
4	9.4	9	5.8	7.6	8.9	9.1	5.7	6.3	5	5.8	5.4	7.3	6.7	7.7	5.9	7.9	6.3	7.4
5	9.5	7	9.8	8	6	5.4	9.5	7.4	8	7.2	9.6	5.5	4.9	4.2	6.4	3.9	2.5	5.8
6	8.4	7.5	7	9.5	8	8.9	8.6	5.8	8	6	6	8.5	7	6.9	2.1	6.2	6	6.6

7	7	8	9	7	7.5	8.3	5.5	6.6	8.2	8.4	8	5.8	7	2.3	9	3.9	7	8
8	8	8.7	7	7.6	7.6	8.3	7	8	4.8	5.9	7	6.7	7	5.4	7	4.8	5.5	7.4
9	7.5	7.9	7.5	6	8	6.4	7.5	7.4	8.8	7.4	6.5	7.2	9.3	7.6	5	4.5	7.5	6
10	9	6.4	8	6.9	9.5	7.1	6.5	6	5.4	8.9	5	3.8	5.2	6	6.3	6.6	6.6	8
11	9.1	9.3	8.7	5.4	7	8.8	8.4	8	7.3	8.3	4.8	7.6	7.3	7.6	5.8	7.6	7.9	8
12	9.3	6.1	7.9	5.1	7.6	9.7	8.4	8	2.5	5	8.4	8	5.5	9.8	7.7	8.5	3.9	5.8
13	7	8.4	6.4	9.7	6	7	9.1	5.8	6.3	8	5.8	7.6	8.5	6.9	4.2	5.2	6.2	7.4
14	7.2	7.6	9.3	5.8	6.9	8.4	5.4	7.4	7.4	5.3	7.2	5.1	5.8	5	6.9	2.9	3.9	4.3
15	8	7.4	6.1	9.8	9.2	9.5	8.9	5.8	5.8	4.2	6	4.4	6.7	3.4	2.3	6.3	4.8	3.3
16	7	9.7	8.4	7	8.2	8.9	8.3	8.6	6.6	9.6	8.4	9.5	7.2	5.4	5.4	5	4.5	4.7
17	8.7	8.4	7.6	9	7.2	6	8.3	5.8	8	5.6	5.9	5.4	3.8	4.2	7.6	9.5	6.6	6.3
18	7	9.4	9.1	7	8.4	8	6.4	8.5	7.4	6.3	7.4	9.6	7.6	6	6	5.9	7.6	2.5
19	7.9	9.5	8.1	7.5	8.2	7.5	7.1	9.5	6	5	8.9	6	8	6.7	7.6	6.4	8.5	6
20	9.4	8.4	6.7	8	6.1	7.6	8.8	5.7	8	8	8.3	8	7.6	4.9	9.8	2.1	5.2	7
21	8.7	7	8.9	8.7	9.5	8	9.7	9.5	8	8	5	7	5	7	6.9	9	2.9	5.5
22	6	8	8	7.9	7	9.5	9.6	8.6	5.8	8.2	8	6.5	9	7	5	7	4	7.5
23	7.4	7.5	3	6.4	8	7	9	5.5	7.4	4.8	5.3	5	4.5	7	3.4	5	3	6.6
24	6.7	9	8.2	9.3	6	7.6	8.7	7	5.8	8.8	4.2	4.8	6.9	9.3	5.9	6.3	2.5	7.9
25	9.3	9.1	9.3	6.1	6.9	6	8.3	7.5	8.6	5.4	8	8.4	8.8	5.2	4.4	5.8	5.6	3.9
26	8.2	9.3	9.6	8.4	9.3	6.9	6.8	6.5	5.3	7.3	7	5.8	5.7	7.3	6.9	7.7	7	6.2
27	8.1	7	8.6	7.6	8.6	9.2	7.5	8.4	7.8	2.5	4.1	7.2	7.2	5.5	2.4	4.2	6.3	3.9
28	8.8	7.2	8.9	8.9	8.8	8.2	8.8	8.4	7.4	6.3	8.5	6	6.9	8.5	8.3	6.9	4.5	4.8
29	9.5	8	8.9	8	9.2	7.2	6.1	9.1	8.2	7.4	5.8	8.4	5.8	5.8	7.5	2.3	6.9	4.5
30	8.1	7	8.8	3	7	8	6.8	5.4	7.5	5.8	5.3	5.9	6.2	6.7	5.8	5.4	7.8	6.6
Jumlah	24	240	23	222,	23	235,	234.	211,	206.	197,	198.	202,	196.	186,	182.	17	16	
Rata-rata	5.7	,4	4.8	7	5.5	8	5	7	8	6	8	5	7	4	3	6,4	3.3	178
	8.1	8,0	7.8		7.8											5,8	5.4	
	9	6	3	7,61	5	7,88	7.82	7,17	6.89	6,74	6.63	6,67	6.56	6,23	6.08	5	4	5,98

### Hasil Uji Statistik SPSS Mutu Hedonik *Over all*

#### Tests of Between-Subjects Effects

Dependent Variable: Ikan\_Lele

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	213.098 <sup>a</sup>	8	26.637	11.786	.000
Intercept	13347.861	1	13347.861	5906.127	.000
Perlakuan	213.098	8	26.637	11.786	.000
Error	589.861	261	2.260		
Total	14150.820	270			
Corrected Total	802.959	269			

a. R Squared = .265 (Adjusted R Squared = .243)

**Tests of Between-Subjects Effects**

Dependent Variable: Pegagan

Source	Type III Sum of Squares	Df	Mean Square	F	Sig.
Corrected Model	150.307 <sup>a</sup>	8	18.788	7.995	.000
Intercept	12696.490	1	12696.490	5402.735	.000
Perlakuan	150.307	8	18.788	7.995	.000
Error	613.353	261	2.350		
Total	13460.150	270			
Corrected Total	763.660	269			

a. R Squared = .197 (Adjusted R Squared = .172)

**Tests of Between-Subjects Effects**

Dependent Variable: Perlakuan

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1681.333 <sup>a</sup>	245	6.863	1.388	.021
Intercept	6577.333	1	6577.333	1330.247	.000
Ikan_Lele * Pegagan	1681.333	245	6.863	1.388	.021
Error	118.667	24	4.944		
Total	8550.000	270			
Corrected Total	1800.000	269			

a. R Squared = .934 (Adjusted R Squared = .261)

**Ikan\_Lele dan pegagan Duncan**

Perlakuan	N	Subset		
		1	2	3
A3B3	30	5.4433		
A3B2	30	6.0767	6.0767	
A3B1	30		6.5567	
A2B3	30		6.6267	
A2B2	30		6.8933	
A2B1	30			7.8167
A1B2	30			7.8267
A1B3	30			
A1B1	30			7.8500
Sig.		.104	.054	8.1900 .388

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 2.260.

a. Uses Harmonic Mean Sample Size = 30.000.

b. Alpha = ,05.

### Descriptive Statistics

Dependent Variable: Ikan\_Lele dan pegagan

Perlakuan	Mean	Std. Deviation	N
A1B1	8.1900	1.00219	30
A1B2	7.8267	1.58439	30
A1B3	7.8500	1.11564	30
A2B1	7.8167	1.33496	30
A2B2	6.8933	1.49342	30
A2B3	6.6267	1.63621	30
A3B1	6.5567	1.41389	30
A3B2	6.0767	1.97147	30
A3B3	5.4433	1.73358	30
Total	7.0311	1.72771	270

### Lampiran 8. Hasil Uji Rata-rata Mutu Sensori

Uji Mutu	A1B1	A1B2	A1B3	A2B1	A2B2	A2B3	A3B1	A3B2	A3B3
Warna	8.38	7.62	4.25	8.06	5.8	3.23	8.17	5.42	2.53
Rasa Pegagan	8.35	8.53	8.51	8.32	7.99	7.96	8.72	7.72	7
Rasa Ikan Lele	7.98	7.56	7.65	6.16	6.18	6.51	4.31	3.65	4.14
Aroma Pegagan	7.49	6.89	5.46	6.82	6.16	5.24	7.3	5.86	5.67
Aroma ikan Lele	8.49	8.48	8.65	6.77	6.74	6.32	4.49	3.69	3.47
Tekstur	8.08	8.09	8.28	7.76	7.63	7.82	8.22	6.96	7.2

## Tests of Between-Subjects Effects

Dependent Variable: Nilai

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	144.916 <sup>a</sup>	53	2.734	.	.
Intercept	2462.806	1	2462.806	.	.
perlakuan	50.741	8	6.343	.	.
Sensori	40.338	5	8.068	.	.
perlakuan * Sensori	53.837	40	1.346	.	.
Error	.000	0			
Total	2607.721	54			
Corrected Total	144.916	53			

a. R Squared = 1,000 (Adjusted R Squared = .)

## Tests of Between-Subjects Effects

Dependent Variable: Nilai

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	91.079 <sup>a</sup>	13	7.006	5.205	.000
Intercept	2462.806	1	2462.806	1829.840	.000
perlakuan	50.741	8	6.343	4.713	.000
Sensori	40.338	5	8.068	5.994	.000
Error	53.837	40	1.346		
Total	2607.721	54			
Corrected Total	144.916	53			

a. R Squared = ,628 (Adjusted R Squared = ,508)

## 10. Hasil Uji Rata-rata Mutu Hedonik

Uji Hedonik	A1B1	A1B2	A1B3	A2B1	A2B2	A2B3	A3B1	A3B2	A3B3
Warna	8.24	7.62	7.38	7.86	6.71	6.53	7.36	6.42	5.77
Rasa	8.21	7.37	7.95	7.67	6.71	6.57	6.91	5.54	5.97
Aroma	8.2	7.56	7,63	7.6	7.23	7.31	6.2	6.19	5.23
Tekstur	8.38	8.19	8.07	7.87	7.83	7.94	8.07	7.27	7.15
<i>Over All</i>	8.19	7.83	7.85	7.82	6.89	6.63	6.56	6.08	5.44

Lampiran

Lampiran

11. Hasil Uji ANOVA Rata-rata Mutu Hedonik

Tests of Between-Subjects Effects

Dependent Variable: Nilai

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	30.253 <sup>a</sup>	12	2.521	17.188	.000
Intercept	2318.566	1	2318.566	15807.685	.000
perlakuan	24.790	8	3.099	21.127	.000
Sensori	5.463	4	1.366	9.312	.000
Error	4.694	32	.147		
Total	2353.512	45			
Corrected Total	34.947	44			

a. R Squared = .866 (Adjusted R Squared = .815)

Nilai Duncan

perlakuan	N	Subset		
		1	2	3
A3B3	5	5.9120		
A3B2	5	6.1000		
A2B3	5		6.9960	
A3B1	5		7.0200	
A2B2	5		7.0760	
A1B2	5			7.7140
A2B1	5			7.7640
A1B3	5			7.7760
A1B1	5			8.2440
Sig.		.443	.759	.052

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .147.

a. Uses Harmonic Mean Sample Size = 5.000.

b. Alpha = 0,05.

12. kenampakan Stik



Lampiran



Lampiran 13. Uji Kadar Air



Lampiran 14. Uji Kadar Abu



15. Uji Kadar Lemak

## Lampiran



## Lampiran 16. Uji Kadar Protein



## Lampiran 17. Uji kadar Serat Kasar

