

## LAMPIRAN

### Lampiran 1. Formulir Uji Organoleptik

#### FORMULIR UJI ORGANOLEPTIK PENDAHULUAN

Nama Panelis :

Usia :

Tanggal Pengujian :

Dihadapan saudara telah tersedia 6 sampel biskuit dan anda diminta memberikan penilaian pada skala hedonik yang sesuai, pada setiap kode sampel berdasarkan skala numerik yang sesuai dengan pernyataan dibawah ini :

Skala Hedonik	Skala Numerik
Sangat tidak suka	1
Tidak suka	2
Agak tidak suka	3
Agak suka	4
Suka	5
Sangat suka	6

Kode Sampel	Jenis yang Diuji			
	Warna	Aroma	Rasa	Tekstur

**Lampiran 2. Data Hasil Analisis Kimia**

<b>ULANGAN I</b>				
No.	kode sampel	Kadar air %	kadar abu %	kadar protein %
1	a1	10.914	2.364	2.389
2	a2	6.448	1.166	1.992
3	a3	10.615	1.498	1.992
4	a4	4.627	0.469	2.683
5	a5	11.072	2.468	2.603
Rata - rata		8.7352	1.593	2.3318

<b>ULANGAN II</b>				
No.	kode sampel	kadar air %	kadar abu %	kadar protein %
1	a1	10.619	2.065	2.175
2	a2	6.228	1.013	1.772
3	a3	10.426	1.132	1.772
4	a4	4.402	0.356	2.48
5	a5	10.098	2.247	2.404
Rata - rata		8.3546	1.3626	2.1206

<b>ULANGAN III</b>				
No.	kode sampel	kadar air %	kadar abu %	kadar protein %
1	a1	9.519	1.856	2.016
2	a2	5.982	0.956	1.032
3	a3	9.96	1.012	1.032
4	a4	3.896	0.289	2.035
5	a5	10.769	2.089	2.045
Rata - rata		8.0252	1.2404	1.632

### LAMPIRAN 3. DATA HASIL UJI ORGANELOPTIK

#### Warna

Panelis	Perlakuan Warna									
	A1		A2		A3		A4		A5	
	Nilai	skor	nilai	skor	nilai	skor	nilai	skor	nilai	skor
1	5	3	5	3	3	1	6	3	5	5
2	6	4.5	5	2	5	2	5	4.5	6	2
3	5	2.5	4	1	6	4.5	6	2.5	5	4.5
4	5	3.5	4	1.5	5	3.5	6	1.5	4	5
5	5	3	5	3	5	3	6	3	5	3
6	4	3	4	3	4	3	4	3	4	3
7	4	3	4	3	4	3	4	3	4	3
8	5	4.5	2	1	3	2	5	3	4	4.5
9	5	5	2	1.5	2	1.5	3	4	4	3
10	5	4.5	4	2.5	5	4.5	4	1	2	2.5
11	3	2.5	6	5	5	4	1	2.5	3	1
12	5	4	5	4	3	2	1	4	5	1
13	5	4	2	1.5	2	1.5	5	4	5	4
14	5	4	2	1.5	2	1.5	5	4	5	4
15	4	3	4	3	4	3	4	3	4	3
16	5	4	4	1.5	5	4	4	4	5	1.5
17	3	2.5	4	4	2	1	5	2.5	3	5
18	5	2	6	4	6	4	4	4	6	1
19	4	2.5	4	2.5	5	5	4	2.5	4	2.5
20	5	5	5	5	4	1.5	5	1.5	4	4
21	4	2	5	3	3	1	6	4.5	6	4.5
22	5	3	3	1	5	3	6	3	5	5
23	3	1	4	2	5	3.5	6	3.5	5	5
24	5	3.5	4	2	5	3.5	3	5	6	1
25	5	3.5	4	1.5	6	5	4	3.5	5	1.5
Total	115	83	101	63	104	71.5	112	80	114	79.5
Rata-rata	4.6	3.32	4.04	2.52	4.16	2.86	4.48	4.5	4.5	3.18

Total ^2	13225	10201	10816	12544	12996
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$$Xr^2 = \left( \frac{12}{bt(t+1)} \sum r_i^2 \right) - (3b(t+1))$$

$$Xr^2 = X$$

KET: hit.

b= jml. Panelis

t= jml. Sample

r= tot. Skor

**X<sup>2</sup> Tabel (0.05 :5)**

**=11.07**

59782

**X<sup>2</sup> Hitung=**

**158.22**

**X<sup>2</sup>T > X<sup>2</sup>H, Berarti tidak ada beda nyata**

## Aroma

Panelis	perlakuan aroma									
	A1		A2		A3		A4		A5	
	Nilai	skor	nilai	skor	nilai	skor	nilai	skor	nilai	skor
1	5	2.5	6	5	5	2.5	5	2.5	5	2.5
2	6	4	5	2	6	4	6	1	4	4
3	6	4.5	5	2.5	4	1	5	4.5	6	2.5
4	6	5	5	3	5	3	4	3	5	1
5	5	3	5	3	5	3	5	3	5	3
6	5	3	5	3	5	3	5	3	5	3
7	5	3	5	3	5	3	5	3	5	3
8	5	4.5	4	2.5	3	1	5	2.5	4	4.5
9	5	4.5	3	1	4	3	5	2	3	4.5
10	5	4.5	2	1	5	4.5	4	2.5	4	2.5
11	5	3	5	3	6	5	5	1	4	3
12	5	4	3	1.5	3	1.5	5	4	5	4
13	5	4	2	1.5	2	1.5	5	4	5	4
14	5	4	2	1.5	2	1.5	5	4	5	4
15	6	3	6	3	6	3	6	4	6	3
16	6	4.5	5	2	5	2	5	3	6	2
17	3	1	5	4	4	2	5	4.5	5	4
18	4	2.5	4	2.5	4	2.5	4	4	5	2.5
19	3	2	4	3.5	2	1	4	5	5	3.5
20	4	2	4	2	5	4.5	5	5	4	4.5
21	4	1.5	4	1.5	5	3.5	5	2	6	3.5
22	6	5	5	4	4	2.5	4	5	3	2.5
23	4	1	5	2.5	5	2.5	6	1	6	4.5
24	4	2	4	2	6	5	4	4.5	5	2
25	4	3	3	1.5	5	4.5	5	4	3	4.5
TOTAL	121	81	106	62	111	70.5	122	82	119	82
Rata-rata	4.84	3.24	4.24	2.48	4.44	2.82	4.88	3.28	4.76	3.28
Total^2	14641		11236		12321		14884		14161	

$$Xr^2 = \left( \frac{12}{bt(t+1)} \sum r_i^2 \right) - (3b(t+1))$$

KET: Xr2 = X hit.  
b= jml. Panelis  
t= jml. Sample  
r= tot. Skor

**X<sup>2</sup> Tabel (0.05 :5) =11.07**                      67243

**X<sup>2</sup> Hitung= 243.49**

**X<sup>2</sup>T > X<sup>2</sup>H, Berarti tidak ada beda nyata**

## Rasa

Panelis	perlakuan rasa									
	A1		A2		A3		A4		A5	
	nilai	skor	nilai	skor	nilai	skor	nilai	skor	nilai	skor
1	3	1	5	2.5	6	4.5	5	4.5	6	2.5
2	5	2.5	6	5	5	2.5	5	2.5	5	2.5
3	5	2	6	4.5	5	2	6	2	5	4.5
4	6	4.5	5	2.5	6	4.5	5	1	3	2.5
5	6	3	6	1	6	3	6	3	6	3
6	6	3	6	3	6	3	5	3	6	3
7	6	3	6	3	6	3	6	3	6	3
8	5	3.5	5	3.5	3	1	5	3.5	5	3.5
9	5	4	2	1	5	4	4	4	5	2
10	5	4	3	2	5	4	5	1	2	4
11	5	3.5	6	5	4	2	3	3.5	5	1
12	2	1.5	3	3	2	1.5	6	4	5	5
13	5	4	2	1.5	2	1.5	5	4	5	4
14	5	4.5	2	1.5	2	1.5	4	4.5	5	3
15	5	3	5	3	5	3	5	3	5	3
16	5	3.5	5	3.5	5	3.5	5	1	4	3.5
17	2	2	1	1	5	4.5	4	4.5	5	3
18	4	2.5	4	2.5	3	1	5	5	6	4
19	5	4.5	4	3	2	1	3	4.5	5	2
20	5	3.5	4	1	5	3.5	5	3.5	5	3.5
21	3	2	2	1	5	3.5	6	3.5	5	5
22	3	1	4	3	4	3	4	5	5	3
23	3	1.5	3	1.5	4	3	6	4	5	5
24	3	1	5	4	4	2	5	4	5	4
25	5	3.5	4	1.5	6	5	5	1.5	4	3.5
TOTAL	112	72	104	64	111	71	123	83	123	83
Rata-rata	4.5	2.9	4.2	2.56	4.44	2.84	4.92	3.3	4.92	3.3
Total <sup>2</sup>	12544		10816		12321		15129		15129	

$$Xr^2 = \left( \frac{12}{bt(t+1)} \sum r_i^2 \right) - (3b(t+1))$$

KET:  $Xr^2 = X$  hit.

b= jml.

Panelis

t= jml.

Sample

r= tot. Skor

**X<sup>2</sup> Tabel (0.05 :5)**

**=11.07**

65939

**X<sup>2</sup>**

**Hitung= 228.59**

**X<sup>2</sup>T > X<sup>2</sup>H, Berarti tidak ada beda nyata**



## Tekstur

Panelis	perlakuan tekstur									
	A1		A2		A3		A4		A5	
	Nilai	skor	nilai	skor	nilai	skor	nilai	skor	nilai	skor
1	5	3.5	2	1	5	3.5	5	5	6	3.5
2	5	3	6	4.5	5	3	6	3	5	4.5
3	5	2.5	5	2.5	6	5	5	2.5	5	2.5
4	5	3	6	5	5	3	5	4	6	3
5	5	3	5	3	5	3	5	3	5	3
6	5	3	5	3	5	3	5	3	5	3
7	5	3	5	3	5	3	5	3	5	3
8	5	4	2	1	3	2	5	4	5	4
9	5	4.5	2	2	2	2	5	2	2	4.5
10	5	4	3	1	5	4	5	2	4	4
11	5	3	6	5	5	3	5	1	4	3
12	3	2	3	2	3	2	4	5	5	4
13	5	4	2	1.5	2	1.5	5	4	5	4
14	5	4	2	1.5	2	1.5	5	4	5	4
15	5	3	5	3	5	3	5	3	5	3
16	5	3	6	5	4	1	5	3	5	3
17	5	3	2	1	5	3	5	5	6	3
18	3	1.5	3	1.5	6	4.5	5	4.5	6	3
19	4	3.5	4	3.5	3	1	4	3.5	4	5.5
20	4	2	4	2	4	2	5	4.5	5	4.5
21	3	1.5	3	1.5	5	3	6	4.5	6	4.5
22	4	1	5	3	6	5	5	3	5	3
23	2	1	3	2	5	4.5	6	4.5	5	5
24	4	1.5	4	1.5	5	4	5	4	5	4
25	3	2	4	4.5	3	2	3	4.5	5	2
TOTAL	110	69.5	97	64.5	109	72.5	124	89.5	124	90.5
Rata-rata	4.4	2.78	3.88	2.58	4.36	2.9	4.96	3.58	4.96	3.62
Total <sup>2</sup>	12100		9409		11881		15376		15376	

$$Xr^2 = \left( \frac{12}{bt(t+1)} \sum r_i^2 \right) - (3b(t+1))$$

**X<sup>2</sup> Tabel (0.05 :5) =11.07**

64142

$$X^2 \text{ Hitung} = \frac{208.0}{5}$$

KET:  $X^2 = X$  hit.  
b= jml. Panelis  
t= jml.  
Sample  
r= tot. Skor

$X^2_T > X^2_H$ , Berarti tidak ada beda nyata

#### Lampiran 4. Dokumentasi

