

**LAMPIRAN**

### Lampiran 1. Desain Penentuan Proporsi Setiap Taraf Perlakuan

#### P0

Kebutuhan		265	6.5	7.5	43	470
P0 100:0:0						
Bahan	Berat (gr)	Energi Kkal	Protein (gr)	Lemak (gr)	KH (gr)	Kalium (mg)
Tepung terigu	100	333	9	1	77.2	0
Tepung kedelai	0	0	0	0	0	0
Pisang raja	0	0	0	0	0	0
Susu skim bubuk	10	35.9	3.56	0.1	5.2	174.5
Telur	80	123.2	9.92	8.64	0.56	94.8
Gula pasir	40	157.6	0	0	37.6	1.9
Coklat batang	100	527	2	29.8	62.7	499.5
Sub Total	330.00	1176.70	24.48	39.54	183.26	770.70
4bj/resep	82.50	294.18	6.12	9.89	45.82	192.68
CV			26.36	43.02	199.37	838.45
produk/100 g		356.58	7.42	11.98	55.53	233.55

#### P1

Kebutuhan		265	6.5	7.5	43	470
P1 30:40:30						
Bahan	Berat (gr)	Energi Kkal	Protein (gr)	Lemak (gr)	KH (gr)	Kalium (mg)
Tepung terigu	30	99.9	2.7	0.3	23.16	0
Tepung kedelai	40	138.8	17.95	8.24	11.96	1009
Pisang raja	30	36	0.36	0.06	9.54	174.66
Susu skim bubuk	10	35.9	3.56	0.1	5.2	174.5
Telur	80	123.2	9.92	8.64	0.56	94.8
Gula pasir	40	157.6	0	0	37.6	1.9
Coklat batang	100	527	2	29.8	62.7	499.5
Sub Total	330.00	1118.4	36.49	47.14	150.72	1954.3
4bj/resep	82.50	279.60	9.12	11.79	37.68	488.59
CV			39.30	51.28	163.97	2126.1
produk/100 g		338.91	11.06	14.28	45.67	592.23

**P2**

Kebutuhan		265	6.5	7.5	43	470
P1 30:50:20						
Bahan	Berat (gr)	Energi Kkal	Protein (gr)	Lemak (gr)	KH (gr)	Kalium (mg)
Tepung terigu	30	99.9	2.7	0.3	23.16	0
Tepung kedelai	50	173.5	17.95	10.3	14.95	1261.2
Pisang raja	20	24	0.24	0.04	6.36	116.44
Susu skim bubuk	10	35.9	3.56	0.1	5.2	174.5
Telur	80	123.2	9.92	8.64	0.56	94.8
Gula pasir	40	157.6	0	0	37.6	1.9
Coklat batang	100	527	2	29.8	62.7	499.5
Sub Total	330.0	1141.10	36.37	49.18	150.53	2148.39
4bj/resep	82.50	285.28	9.09	12.30	37.63	537.10
CV			39.57	54.58	167.07	2384.48
produk/100 g		345.79	11.02	14.90	45.62	651.03

**P3**

Kebutuhan		265	6.5	7.5	43	470
P1 30:60:10						
Bahan	Berat (gr)	Energi Kkal	Protein (gr)	Lemak (gr)	KH (gr)	Kalium (mg)
Tepung terigu	30	99.9	2.7	0.3	23.16	0
Tepung kedelai	60	208.2	21.54	12.36	17.94	1513.5
Pisang raja	10	12	0.12	0.02	3.18	58.22
Susu skim bubuk	10	35.9	3.56	0.1	5.2	174.5
Telur	80	123.2	9.92	8.64	0.56	94.8
Gula pasir	40	157.6	0	0	37.6	1.9
Coklat batang	100	527	2	29.8	62.7	499.5
Sub Total	330.00	1163.80	39.84	51.22	150.34	2342.4
4bj/resep	82.50	290.95	9.96	12.81	37.59	585.61
CV			42.90	55.72	163.56	2548.3
produk/100 g		352.67	12.07	15.52	45.56	709.82

**Lampiran 2. Formulir Uji Skala Kesukaan (*Hedonic Scale Test*)**

**FORMULIR UJI SKALA KESUKAAN (*HEDONIC SCALE TEST*)**

Nama Panelis :

Tanggal Uji :

Instruksi :

Dihadapan saudara disajikan 4 sampel berupa Substitusi Tepung Kacang Kedelai dan Pisang Raja *Snack bar* Bagi Penderita Hipertensi. Saudara diminta untuk memberikan penilaian terhadap warna, aroma, rasa dan tekstur dengan menggunakan skala penilaian sebagai berikut :

4 = Sangat Suka

3 = Suka

2 = Tidak Suka

1 = Sangat Tidak Suka

Setelah saudara mencicipi salah satu sampel saudara diminta berkumur dengan air mineral yang telah disediakan sebelum mencicipi sampel yang lain. Selain itu saudara juga diminta memberikan kritik dan saran terhadap sampel.

Kode Sampel	Kriteria Penelitian			
	Warna	Aroma	Rasa	Tekstur

Kritik dan Saran: .....

Terima Kasih Atas Partisipasinya

### Lampiran 3. Penentuan Taraf Perlakuan Terbaik

#### PENENTUAN TARAF PERLAKUAN TERBAIK

- Nama :  
Tanggal :  
Produk : “Substitusi Tepung Kacang Kedelai dan Pisang Raja *Snack bar* Bagi Penderita Hipertensi”.  
Instruksi : Saudara diminta untuk mengemukakan pendapat tentang urutan (ranking) pentingnya peranan keempat variabel berikut terhadap mutu pada Substitusi Tepung Kacang Kedelai dan Pisang Raja *Snack bar* Bagi Penderita Hipertensi, dengan cara meranking 11 variabel dari tertinggi ke terendah dengan mencantumkan angka 1 – 11. Angka terendah untuk variabel kurang penting dan angka tertinggi untuk variabel terpenting. Pemberian nilai boleh sama apabila dirasa variabel yang dinilai sama pentingnya.

Variabel Mutu	Rangking
Kadar air	
Kadar abu	
Kadar protein	
Kadar lemak	
Kadar karbohidrat	
Nilai energy	
Kadar kalium	
Aroma	
Rasa	
Warna	
Tekstur	

Terimakasih Atas Partisipasinya

#### Lampiran 4. Randomisasi Unit Percobaan

Besar unit penelitian mempunyai peluang yang sama untuk mendapatkan perlakuan, maka dalam penempatan unit penelitian digunakan randomisasi atau pengacakan pengacakan dilakukan dengan langkah-langkah sebagai berikut:

- a. Memberi nomor urut pada semua unit penelitian, yaitu 1-12
- b. Mengambil bilangan random menggunakan 3 digit sebanyak jumlah unit penelitian sebagaimana yang disajikan pada gambar lampiran
- c. Memberi ranking pada bilangan random yang diperoleh

1 235 2	2 061 3	3 539 7
4 499 6	5 201 1	6 244 8
7 606 4	8 131 9	9 082 5
10 535 3	11 222 2	12 102 1

**Gambar 8. Nomor Urut, Bilangan Random, dan Ranking**

Keterangan :

Baris pertama : nomor urut (Penempatan Unit Penelitian sebelum Randomisasi)

Baris kedua : Bilangan Random

Baris Ketiga : Ranking (Penempatan Unit Penelitian setelah Randomisasi)

d. Menggunakan prinsip permutasi sederhana, maka nomor ranking dapat dianggap mewakili nomor urut sesuai dengan jumlah unit penelitian dengan demikian taraf perlakuan P0 akan diulang 3 kali dan ditempatkan pada unit penelitian nomor 3, 7, dan 12. Taraf perlakuan P1 akan diulang 3 kali dan ditempatkan pada unit penelitian nomor 1, 4, dan 11. Taraf perlakuan P2 akan diulang 3 kali dan ditempatkan pada

unit penelitian nomor 6, 8, dan 10. Taraf perlakuan P3 akan diulang 3 kali dan ditempatkan pada unit penelitian nomor 2, 5, dan 9.

e. Memasukkan unit penelitian dalam *lay out*

Urutan 1 ditempati oleh unit penelitian  $X_{12}$ , urutan 2 ditempati oleh unit penelitian  $X_{33}$ , urutan 3 ditempati oleh unit penelitian  $X_{02}$ , dan seterusnya sampai urutan 12 ditempati unit penelitian  $X_{01}$  seperti yang disajikan pada gambar

1	$X_{12}$	2	$X_{33}$	3	$X_{02}$
4	$X_{13}$	5	$X_{31}$	6	$X_{23}$
7	$X_{03}$	8	$X_{22}$	9	$X_{32}$
10	$X_{21}$	11	$X_{11}$	12	$X_{01}$

**Gambar 9. Lay Out Penelitian dengan Desain RAL  
(Krisyoanto, Y., 2005)**

**Keterangan :**

1 – 12 : Ranking (Penempatan Unit Penelitian setelah Randomisasi)

$X_{11} - X_{33}$  : Unit Penelitian

## Lampiran 5. Skor Asam Amino pada setiap Taraf Perlakuan

### Skor Asam Amino

Bahan	Berat (g)	Protein (g)	Lysin (mg)	AAS (Met+S ys) (mg)	Treoni n (mg)	Thriptofa n (mg)
Tepung terigu	100	9.00	3.42	0.72	3.24	1.17
Tepung kedelai		0.00	0	0	0	0
Pisang raja		0.0	0	0	0	0
Susu skim bubuk	10	0.4	0.10	0.04	0.05	0.01
Telur	80	9.92	8.25	7.96	5.89	1.64
Gula pasir	40	0	0	0	0	0
Coklat manis batang	100	12.4	60	2.48	11.78	223.2
<b>Total</b>		<b>31.68</b>	<b>71.30</b>	<b>11.21</b>	<b>20.97</b>	<b>226.03</b>
mg/g Protein campuran			2	0	1	7
Pola FAO/WHO/UNU (2007) mg/g Protein			45	22	23	6
<b>Skor Asam Amino</b>			<b>0.05</b>	<b>0.02</b>	<b>0.03</b>	<b>1.19</b>

### Skor Asam Amino

P1

Bahan	Berat (g)	Protein (g)	Lysin (mg)	AAS (Met+S ys) (mg)	Treon in (mg)	Thriptof an (mg)
Tepung terigu	30	2.7	1.026	0.21	0.97	0.35
Tepung kedelai	40	17.95	54.92	29.29	35.36	11.05
Pisang raja	30	0.36	0.05	0.14	0.04	0.00
Susu skim bubuk	10	0.4	0.10	0.04	0.05	0.017
Telur	80	9.92	8.25	7.96	5.89	1.64
Gula pasir	40	0	0	0	0	0
Coklat manis batang	100	12.4	60	2.48	11.78	223.2
<b>Total</b>		<b>43.69</b>	<b>123.88</b>	<b>40.15</b>	<b>54.11</b>	<b>236.28</b>
mg/g Protein campuran			3	1	1	5
Pola FAO/WHO/UNU (2007) mg/g Protein			45	22	23	6
<b>Skor Asam Amino</b>			<b>0.06</b>	<b>0.04</b>	<b>0.05</b>	<b>0.90</b>



## Skor Asam Amino

## P2




Bahan	Berat (g)	Protein (g)	Lysin (mg)	AAS (Met+S ys) (mg)	Treonin (mg)	Thriptofan (mg)
Tepung terigu	30	2.7	1.02	0.21	0.97	0.35
Tepung kedelai	50	17.95	54.92	29.29	35.36	11.05
Pisang raja	20	0.24	0.03	0.09	0.03	0.00
Susu skim bubuk	10	0.4	0.10	0.04	0.05	0.01
Telur	80	9.92	8.25	7.96	5.89	1.64
Gula pasir	40	0	0	0	0	0
Coklat manis batang	100	12.4	60	2.48	11.78	223.2
<b>Total</b>		<b>43.57</b>	<b>123.87</b>	<b>40.10</b>	<b>54.10</b>	<b>236.27</b>
mg/g Protein campuran			3	1	1	5
Pola FAO/WHO/UNU (2007) mg/g Protein			45	22	23	6
<b>Skor Asam Amino</b>			<b>0.06</b>	<b>0.04</b>	<b>0.05</b>	<b>0.90</b>

## Skor Asam Amino

## P3

Bahan	Berat (g)	Protein (g)	Lysin (mg)	AAS (Met+S ys) (mg)	Treonin (mg)	Thriptofan (mg)
Tepung terigu	30	2.7	1.026	0.21	0.97	0.35
Tepung kedelai	60	21.54	65.91	35.15	42.43	13.26
Pisang raja	10	0.12	0.01	0.04	0.01	0.00
Susu skim bubuk	10	0.4	0.10	0.046	0.05	0.01
Telur	80	9.92	8.25	7.96	5.89	1.64
Gula pasir	40	0	0	0	0	0
Coklat manis batang	100	12.4	60	2.48	11.78	223.2
<b>Total</b>		<b>47.04</b>	<b>134.84</b>	<b>45.91</b>	<b>61.15</b>	<b>238.48</b>
mg/g Protein campuran			3	1	1	5
Pola FAO/WHO/UNU (2007) mg/g Protein			45	22	23	6
<b>Skor Asam Amino</b>			<b>0.06</b>	<b>0.04</b>	<b>0.06</b>	<b>0.85</b>

Lampiran 6. Hasil Uji Laboratorium

 Komite Akreditasi Nasional Lembaga Mutu Pangan LP-112-08	 <b>BALITKABI</b>	<h1>FORMULIR</h1>	No. Bagian	F.IKM.PM.7.2.1.1.P6
			Terbitan Revisi	2/1
Tanggal Terbit	20-05-2018			
Tanggal Revisi	20-04-2021			
Halaman	1 - 1			
Hasil Pengujian	Disetujui Manajer Teknis			

Nomor Kode Contoh : 001/Lab/P/2023  
 Jenis Contoh : Snack bar  
 Tanggal Contoh Masuk : 2 Januari 2023  
 Tanggal Selesai Pengujian : 6 Januari 2023  
 Hasil Pengujian :

Kode	Kadar air (%)	Kadar abu		Kadar lemak		Kadar protein	
	SNI 01-2891-1992 Butir 5.1.1-5.1.3	SNI 01-2891-1992 Butir 6.1.1-6.1.3		SNI 01-2891-1992 Butir 8.1.1-8.1.4		AOAC. 2016 No. 12.1.07	
		(%bb)	(%bk)	(%bb)	(%bk)	(%bb)	(%bk)
061	9,6	1,39	1,85	13,37	12,73	9,08	12,04
082	11,48	1,36	1,87	12,69	12,49	8,56	11,80
102	10,45	1,29	1,76	13,35	13,19	8,41	11,46
131	10,49	1,76	2,53	14,27	10,47	11,06	15,86
201	8,94	1,84	2,49	16,03	13,61	11,56	15,58
222	12,02	0,24	0,36	13,20	14,42	11,44	16,83
235	12,16	0,38	0,49	16,89	11,68	14,10	18,11
244	11,97	0,45	0,60	12,92	12,29	13,56	18,15
535	8,82	0,42	0,54	18,76	14,32	13,93	18,05
499	10,29	0,39	0,54	15,09	11,04	12,17	16,96
539	10,67	0,12	0,16	16,84	12,35	14,02	18,61
606	10,29	0,11	0,16	15,58	11,41	12,60	17,31

Keterangan : bb = basis basah  
 bk = basis kering

Malang, 9 Januari 2023  
 Manajer Teknis Lab. Kimia Pangan  
  
 Ir. Erliana Ginting, MSc



## LAPORAN HASIL ANALISIS

NO : 616/UN10.F09.12/TA.00.02.3/2023

1. Data Konsumen  
Nama : Yuan Dika Damayanti  
Instansi : Gizi Politeknik Kesehatan Kemenkes Malang  
Alamat : Jl. Besar Ijen No. 77 C Malang  
Telepon : 082244061499  
Status : Mahasiswa D-IV  
Keperluan Analisis : Uji Kuantitas
2. Sampling Dilakukan Oleh : Konsumen
3. Identifikasi Sampel  
Nama Sampel : **Snack Bar**  
Wujud : Padat  
Warna : Cokelat  
Bau : Tidak Ada Bau
4. Prosedur Analisis : Dilakukan oleh Laboratorium Layanan Analisa dan Pengukuran Departemen Kimia FMIPA Universitas Brawijaya Malang
5. Penyampaian Laporan Hasil Analisis : Diambil Langsung
6. Tanggal Terima Sampel : 06 Januari 2023
7. Data Hasil Analisis : Terlampir

Malang, 11 Januari 2023  
Ketua Departemen Kimia,



TTE oleh :  
**YUNIAR PONCO PRANANTO**  
11 Januari 2023 14:28

Verifikasi melalui  
<https://ic3.ub.ac.id>

Yuniar Ponco Prananto, S.Si., M.Sc., Ph.D.  
NIP. 198106202005011002



LU ITE No. 11 Tahun 2008 Pasal 6 Ayat 1

"Informasi Elektronik dan/atau Dokumen Elektronik dan/atau hasil cetaknya merupakan alat bukti hukum yang sah."  
Dokumen ini telah ditandatangani secara elektronik menggunakan sertifikat elektronik yang diterbitkan BIREL

Lampiran Surat Nomor: 616/UN10.F09.12/TA.00.02.3/2023

No	Kode	Parameter	Hasil Analisis		Metode Analisis	
			Kadar	Satuan	Pereaksi	Metode
1.	535	K	1,54 ± 0,00	%	HNO <sub>3</sub>	AAS

Catatan:

1. Hasil analisis ini adalah nilai rata-rata pengerjaan analisis secara duplo,
2. Hasil analisis ini hanya berlaku untuk sampel yang kami terima dengan kondisi sampel saat itu.

## Lampiran 7. Hasil Uji Statistik

### Descriptives

KADAR\_AIR

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum
					Lower Bound	Upper Bound	
P0	3	10.4700	.19079	.11015	9.9961	10.9439	10.29
P1	3	11.8867	.35907	.20731	10.9947	12.7787	11.48
P2	3	10.9167	.91768	.52982	8.6370	13.1963	10.29
P3	3	9.1200	.42000	.24249	8.0767	10.1633	8.82
Total	12	10.5983	1.13846	.32864	9.8750	11.3217	8.82

### Test of Homogeneity of Variances

KADAR\_AIR

Levene Statistic	df1	df2	Sig.
4.632	3	8	.037

### ANOVA

KADAR\_AIR

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	11.889	3	3.963	13.390	.002
Within Groups	2.368	8	.296		
Total	14.257	11			

### Post Hoc Tests

#### Homogeneous Subsets

KADAR\_AIR

Duncan

PERLAKUA	N	Subset for alpha = 0.05		
		1	2	3
P3	3	9.1200		
P0	3		10.4700	
P2	3		10.9167	10.9167
P1	3			11.8867
Sig.		1.000	.344	.061

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

### Descriptives

KADAR\_ABU

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum
					Lower Bound	Upper Bound	
P0	3	.6933	.92376	.53333	-1.6014	2.9881	.16
P1	3	.9067	.83680	.48313	-1.1721	2.9854	.36
P2	3	1.2233	1.13200	.65356	-1.5887	4.0354	.54
P3	3	1.6267	.99400	.57389	-.8426	4.0959	.54
Total	12	1.1125	.91105	.26300	.5336	1.6914	.16

### Test of Homogeneity of Variances

KADAR\_ABU

Levene Statistic	df1	df2	Sig.
.214	3	8	.884

### ANOVA

KADAR\_ABU

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.484	3	.495	.518	.682
Within Groups	7.646	8	.956		
Total	9.130	11			

### Descriptives

PROTEIN

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum
					Lower Bound	Upper Bound	
P0	3	15.9067	3.61539	2.08735	6.9255	24.8878	11.80
P1	3	15.5800	3.33555	1.92578	7.2940	23.8660	11.80
P2	3	16.9767	1.12509	.64957	14.1818	19.7716	15.86
P3	3	15.2233	3.02083	1.74408	7.7192	22.7275	12.04
Total	12	15.9217	2.59946	.75040	14.2700	17.5733	11.80

### Test of Homogeneity of Variances

PROTEIN

Levene Statistic	df1	df2	Sig.
1.530	3	8	.280

### ANOVA

PROTEIN

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	5.153	3	1.718	.199	.894
Within Groups	69.176	8	8.647		
Total	74.329	11			

### Descriptives

LEMAK

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum
					Lower Bound	Upper Bound	
P0	3	12.3167	.89047	.51411	10.1046	14.5287	11.41
P1	3	12.8633	1.40763	.81270	9.3666	16.3601	11.68
P2	3	11.2667	.93093	.53747	8.9541	13.5792	10.47
P3	3	13.5533	.79651	.45987	11.5747	15.5320	12.73
Total	12	12.5000	1.24095	.35823	11.7115	13.2885	10.47

### Test of Homogeneity of Variances

LEMAK

Levene Statistic	df1	df2	Sig.
.603	3	8	.631

### ANOVA

LEMAK

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8.389	3	2.796	2.616	.123
Within Groups	8.551	8	1.069		
Total	16.940	11			

### Post Hoc Tests

### Homogeneous Subsets

LEMAK

Duncan

PERLAKUAN	N	Subset for alpha = 0.05	
		1	2
P2	3	11.2667	
P0	3	12.3167	12.3167
P1	3	12.8633	12.8633
P3	3		13.5533
Sig.		.107	.198

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

### Descriptives

KARBOHIDRAT

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum
					Lower Bound	Upper Bound	
P0	3	60.7267	2.46662	1.42411	54.5992	66.8541	58.21
P1	3	58.7633	3.17112	1.83085	50.8858	66.6408	56.37
P2	3	59.6033	2.27810	1.31526	53.9442	65.2624	56.99
P3	3	60.4767	2.91411	1.68246	53.2376	67.7157	58.27
Total	12	59.8925	2.46487	.71155	58.3264	61.4586	56.37

### Test of Homogeneity of Variances

KARBOHIDRAT

Levene Statistic	df1	df2	Sig.
.287	3	8	.834

### ANOVA

KARBOHIDRAT

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	7.187	3	2.396	.321	.810
Within Groups	59.644	8	7.456		
Total	66.831	11			



### Descriptives

ENERGI

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum
					Lower Bound	Upper Bound	
P0	3	416.9300	1.59762	.92239	412.9613	420.8987	415.25
P1	3	413.0600	8.05235	4.64902	393.0569	433.0631	407.80
P2	3	407.7733	6.50777	3.75726	391.6071	423.9395	400.27
P3	3	424.7800	8.42650	4.86504	403.8474	445.7126	417.85
Total	12	415.6358	8.64835	2.49656	410.1409	421.1307	400.27

### Test of Homogeneity of Variances

ENERGI

Levene Statistic	df1	df2	Sig.
2.756	3	8	.112

### ANOVA

ENERGI

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	461.233	3	153.744	3.402	.074
Within Groups	361.499	8	45.187		
Total	822.733	11			

### Post Hoc Tests

#### Homogeneous Subsets

ENERGI

Duncan

PERLAKUAN	N	Subset for alpha = 0.05	
		1	2
P2	3	407.7733	
P1	3	413.0600	413.0600
P0	3	416.9300	416.9300
P3	3		424.7800
Sig.		.148	.075

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
WARNA	120	3.1750	.77419	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

### Kruskal-Wallis Test

#### Ranks

	PERLAKUAN	N	Mean Rank
WARNA	P0	30	49.45
	P1	30	63.50
	P2	30	60.30
	P3	30	68.75
	Total	120	

#### Test Statistics<sup>a,b</sup>

	WARNA
Chi-Square	5.791
df	3
Asymp. Sig.	.122

a. Kruskal Wallis Test

b. Grouping Variable:

PERLAKUAN

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
AROMA	120	3.0917	.69809	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

### Kruskal-Wallis Test

#### Ranks

	PERLAKUAN	N	Mean Rank
AROMA	P0	30	55.42
	P1	30	58.33
	P2	30	58.83
	P3	30	69.42
	Total	120	

**Test Statistics<sup>a,b</sup>**

	AROMA
Chi-Square	3.489
Df	3
Asymp. Sig.	.322

a. Kruskal Wallis Test

b. Grouping Variable:

PERLAKUAN

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
RASA	120	2.8583	.83310	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

**Kruskal-Wallis Test****Ranks**

	PERLAKUAN	N	Mean Rank
	P0	30	52.90
	P1	30	63.90
RASA	P2	30	58.47
	P3	30	66.73
	Total	120	

**Test Statistics<sup>a,b</sup>**

	RASA
Chi-Square	3.163
Df	3
Asymp. Sig.	.367

a. Kruskal Wallis Test

b. Grouping Variable:

PERLAKUAN

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
TEKSTUR	120	2.6000	.87351	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

## Kruskal-Wallis Test

	PERLAKUAN	N	Mean Rank
TEKSTUR	P0	30	48.98
	P1	30	61.32
	P2	30	67.32
	P3	30	64.38
	Total	120	

	TEKSTUR
Chi-Square	5.434
Df	3
Asymp. Sig.	.143

a. Kruskal Wallis Test

b. Grouping Variable:

PERLAKUAN

## Mann-Whitney Test

		Ranks		
	PERLAKUAN	N	Mean Rank	Sum of Ranks
WARNA	P1	30	31.30	939.00
	P2	30	29.70	891.00
	Total	60		

Test Statistics <sup>a</sup>	
	WARNA
Mann-Whitney U	426.000
Wilcoxon W	891.000
Z	-.387
Asymp. Sig. (2-tailed)	.699

a. Grouping Variable: PERLAKUAN

NPART TESTS

```
/M-W= WARNA BY PERLAKUAN(2 4)
/STATISTICS=DESCRIPTIVES
/MISSING ANALYSIS.
```

Descriptive Statistics					
	N	Mean	Std. Deviation	Minimum	Maximum
WARNA	120	3.1750	.77419	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

## Mann-Whitney Test

		Ranks		
	PERLAKUAN	N	Mean Rank	Sum of Ranks
WARNA	P1	30	29.17	875.00
	P3	30	31.83	955.00
	Total	60		

Test Statistics <sup>a</sup>	
	WARNA
Mann-Whitney U	410.000
Wilcoxon W	875.000
Z	-.660
Asymp. Sig. (2-tailed)	.509

a. Grouping Variable: PERLAKUAN

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
WARNA	120	3.1750	.77419	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

**Mann-Whitney Test**

**Ranks**

	PERLAKUAN	N	Mean Rank	Sum of Ranks
	P2	30	28.38	851.50
WARNA	P3	30	32.62	978.50
	Total	60		

**Test Statistics<sup>a</sup>**

	WARNA
Mann-Whitney U	386.500
Wilcoxon W	851.500
Z	-1.043
Asymp. Sig. (2-tailed)	.297

a. Grouping Variable: PERLAKUAN

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
AROMA	120	3.0917	.69809	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

**Mann-Whitney Test**

**Ranks**

	PERLAKUAN	N	Mean Rank	Sum of Ranks
	P0	30	29.67	890.00
AROMA	P1	30	31.33	940.00
	Total	60		

**Test Statistics<sup>a</sup>**

	AROMA
Mann-Whitney U	425.000
Wilcoxon W	890.000
Z	-.421
Asymp. Sig. (2-tailed)	.673

a. Grouping Variable: PERLAKUAN

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
AROMA	120	3.0917	.69809	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

### Mann-Whitney Test

#### Ranks

	PERLAKUAN	N	Mean Rank	Sum of Ranks
AROMA	P0	30	29.63	889.00
	P2	30	31.37	941.00
	Total	60		

#### Test Statistics<sup>a</sup>

	AROMA
Mann-Whitney U	424.000
Wilcoxon W	889.000
Z	-.423
Asymp. Sig. (2-tailed)	.672

a. Grouping Variable: PERLAKUAN

### Descriptive Statistics

	N	Mean	Std. Deviation	Minimum	Maximum
AROMA	120	3.0917	.69809	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

### Mann-Whitney Test

#### Ranks

	PERLAKUAN	N	Mean Rank	Sum of Ranks
AROMA	P0	30	27.12	813.50
	P3	30	33.88	1016.50
	Total	60		

#### Test Statistics<sup>a</sup>

	AROMA
Mann-Whitney U	348.500
Wilcoxon W	813.500
Z	-1.649
Asymp. Sig. (2-tailed)	.099

a. Grouping Variable: PERLAKUAN

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
AROMA	120	3.0917	.69809	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

**Mann-Whitney Test**

**Ranks**

	PERLAKUAN	N	Mean Rank	Sum of Ranks
	P1	30	30.43	913.00
AROMA	P2	30	30.57	917.00
	Total	60		

**Test Statistics<sup>a</sup>**

	AROMA
Mann-Whitney U	448.000
Wilcoxon W	913.000
Z	-.034
Asymp. Sig. (2-tailed)	.973

a. Grouping Variable: PERLAKUAN

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
AROMA	120	3.0917	.69809	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

**Mann-Whitney Test**

**Ranks**

	PERLAKUAN	N	Mean Rank	Sum of Ranks
	P1	30	27.57	827.00
AROMA	P3	30	33.43	1003.00
	Total	60		

**Test Statistics<sup>a</sup>**

	AROMA
Mann-Whitney U	362.000
Wilcoxon W	827.000
Z	-1.479
Asymp. Sig. (2-tailed)	.139



**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
AROMA	120	3.0917	.69809	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

**Mann-Whitney Test**

**Ranks**

	PERLAKUAN	N	Mean Rank	Sum of Ranks
	P2	30	27.90	837.00
AROMA	P3	30	33.10	993.00
	Total	60		

**Test Statistics<sup>a</sup>**

	AROMA
Mann-Whitney U	372.000
Wilcoxon W	837.000
Z	-1.271
Asymp. Sig. (2-tailed)	.204

a. Grouping Variable: PERLAKUAN

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
RASA	120	2.8583	.83310	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

**Mann-Whitney Test**

**Ranks**

	PERLAKUAN	N	Mean Rank	Sum of Ranks
	P0	30	27.70	831.00
RASA	P1	30	33.30	999.00
	Total	60		

**Test Statistics<sup>a</sup>**

	RASA
Mann-Whitney U	366.000
Wilcoxon W	831.000
Z	-1.332
Asymp. Sig. (2-tailed)	.183

a. Grouping Variable: PERLAKUAN

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
RASA	120	2.8583	.83310	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

**Mann-Whitney Test**

**Ranks**

	PERLAKUAN	N	Mean Rank	Sum of Ranks
	P0	30	29.10	873.00
RASA	P2	30	31.90	957.00
	Total	60		

**Test Statistics<sup>a</sup>**

	RASA
Mann-Whitney U	408.000
Wilcoxon W	873.000
Z	-.667
Asymp. Sig. (2-tailed)	.505

a. Grouping Variable: PERLAKUAN

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
RASA	120	2.8583	.83310	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

**Mann-Whitney Test**

**Ranks**

	PERLAKUAN	N	Mean Rank	Sum of Ranks
	P0	30	27.10	813.00
RASA	P3	30	33.90	1017.00
	Total	60		

**Test Statistics<sup>a</sup>**

	RASA
Mann-Whitney U	348.000
Wilcoxon W	813.000
Z	-1.601
Asymp. Sig. (2-tailed)	.109

a. Grouping Variable: PERLAKUAN

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
RASA	120	2.8583	.83310	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

**Mann-Whitney Test****Ranks**

	PERLAKUAN	N	Mean Rank	Sum of Ranks
	P1	30	31.87	956.00
RASA	P2	30	29.13	874.00
	Total	60		

**Test Statistics<sup>a</sup>**

	RASA
Mann-Whitney U	409.000
Wilcoxon W	874.000
Z	-.649
Asymp. Sig. (2-tailed)	.517

a. Grouping Variable: PERLAKUAN

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
RASA	120	2.8583	.83310	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

## Mann-Whitney Test

	PERLAKUAN	N	Mean Rank	Sum of Ranks
	P2	30	28.43	853.00
RASA	P3	30	32.57	977.00
	Total	60		

	RASA
Mann-Whitney U	388.000
Wilcoxon W	853.000
Z	-.973
Asymp. Sig. (2-tailed)	.330

a. Grouping Variable: PERLAKUAN

	N	Mean	Std. Deviation	Minimum	Maximum
TEKSTUR	120	2.6000	.87351	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

## Mann-Whitney Test

	PERLAKUAN	N	Mean Rank	Sum of Ranks
	P0	30	27.08	812.50
TEKSTUR	P1	30	33.92	1017.50
	Total	60		

	TEKSTUR
Mann-Whitney U	347.500
Wilcoxon W	812.500
Z	-1.644
Asymp. Sig. (2-tailed)	.100

a. Grouping Variable: PERLAKUAN

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
TEKSTUR	120	2.6000	.87351	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

**Mann-Whitney Test**

**Ranks**

	PERLAKUAN	N	Mean Rank	Sum of Ranks
	P0	30	26.02	780.50
TEKSTUR	P2	30	34.98	1049.50
	Total	60		

**Test Statistics<sup>a</sup>**

	TEKSTUR
Mann-Whitney U	315.500
Wilcoxon W	780.500
Z	-2.098
Asymp. Sig. (2-tailed)	.036

a. Grouping Variable: PERLAKUAN

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
TEKSTUR	120	2.6000	.87351	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

**Mann-Whitney Test**

**Ranks**

	PERLAKUAN	N	Mean Rank	Sum of Ranks
	P0	30	26.88	806.50
TEKSTUR	P3	30	34.12	1023.50
	Total	60		

**Test Statistics<sup>a</sup>**

	TEKSTUR
Mann-Whitney U	341.500
Wilcoxon W	806.500
Z	-1.690
Asymp. Sig. (2-tailed)	.091

a. Grouping Variable: PERLAKUAN

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
TEKSTUR	120	2.6000	.87351	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

**Mann-Whitney Test**

**Ranks**

	PERLAKUAN	N	Mean Rank	Sum of Ranks
	P1	30	28.77	863.00
TEKSTUR	P2	30	32.23	967.00
	Total	60		

**Test Statistics<sup>a</sup>**

	TEKSTUR
Mann-Whitney U	398.000
Wilcoxon W	863.000
Z	-.825
Asymp. Sig. (2-tailed)	.409

a. Grouping Variable: PERLAKUAN

**Descriptive Statistics**

	N	Mean	Std. Deviation	Minimum	Maximum
TEKSTUR	120	2.6000	.87351	1.00	4.00
PERLAKUAN	120	2.5000	1.12272	1.00	4.00

**Mann-Whitney Test**

**Ranks**

	PERLAKUAN	N	Mean Rank	Sum of Ranks
	P2	30	31.10	933.00
TEKSTUR	P3	30	29.90	897.00
	Total	60		

**Test Statistics<sup>a</sup>**

	TEKSTUR
Mann-Whitney U	432.000
Wilcoxon W	897.000
Z	-.280
Asymp. Sig. (2-tailed)	.779

Standar deviasi

**Descriptives**

WARNA

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
P0	30	2.8667	.93710	.17109	2.5167	3.2166	1.00	4.00
P1	30	3.2667	.69149	.12625	3.0085	3.5249	2.00	4.00
P2	30	3.1667	.79148	.14450	2.8711	3.4622	1.00	4.00
P3	30	3.4000	.56324	.10283	3.1897	3.6103	2.00	4.00
Total	120	3.1750	.77419	.07067	3.0351	3.3149	1.00	4.00

**Descriptives**

AROMA

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
P0	30	2.9667	.76489	.13965	2.6811	3.2523	1.00	4.00
P1	30	3.0667	.58329	.10649	2.8489	3.2845	2.00	4.00
P2	30	3.0667	.69149	.12625	2.8085	3.3249	2.00	4.00
P3	30	3.2667	.73968	.13505	2.9905	3.5429	1.00	4.00
Total	120	3.0917	.69809	.06373	2.9655	3.2179	1.00	4.00

**Descriptives**

RASA

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
P0	30	2.6667	.80230	.14648	2.3671	2.9662	1.00	4.00
P1	30	2.9667	.76489	.13965	2.6811	3.2523	2.00	4.00
P2	30	2.8000	.84690	.15462	2.4838	3.1162	1.00	4.00
P3	30	3.0000	.90972	.16609	2.6603	3.3397	1.00	4.00
Total	120	2.8583	.83310	.07605	2.7077	3.0089	1.00	4.00

**Descriptives**

TEKSTUR

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
P0	30	2.3000	.91539	.16713	1.9582	2.6418	1.00	4.00
P1	30	2.6333	.71840	.13116	2.3651	2.9016	2.00	4.00
P2	30	2.7667	.85836	.15671	2.4461	3.0872	1.00	4.00
P3	30	2.7000	.95231	.17387	2.3444	3.0556	1.00	4.00
Total	120	2.6000	.87351	.07974	2.4421	2.7579	1.00	4.00



## Lampiran 8. Dokumentasi Penelitian

**Proses Pembuatan**

Varietas : DETAP 1  
Kelas Benih : PS  
Berat Benih : 2kg

Produksi oleh UPBS BALITKABI

**P0**                      **P1**

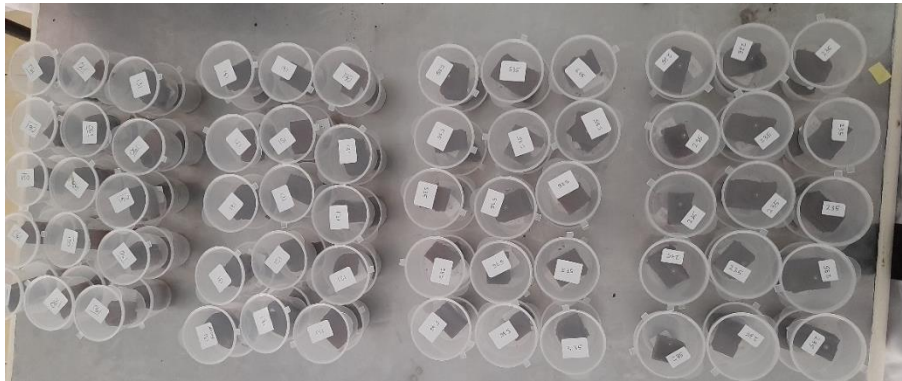
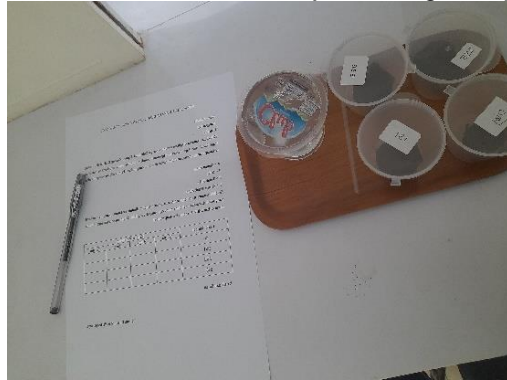


P2



P3

Uji mutu organoleptik



Lampiran 9. Hasil Uji Organoleptik

Tabel 24. Hasil Uji Organoleptik

Panelis	P0				P1				P2				P3			
	warna	aroma	rasa	tekstur	warna	aroma	rasa	tekstur	warna	aroma	rasa	tekstur	warna	aroma	rasa	tekstur
1	4	4	2	2	4	4	2	3	4	4	2	2	4	4	3	3
2	2	2	3	3	4	4	3	3	4	4	4	3	3	2	4	4
3	2	4	4	3	2	2	3	2	4	3	3	3	3	3	1	2
4	3	4	3	2	3	3	2	2	3	3	2	2	4	4	4	3
5	2	1	1	1	4	2	4	3	1	2	2	2	2	3	3	2
6	3	3	2	1	4	4	3	2	4	4	4	4	4	4	3	3
7	3	3	1	1	3	3	4	3	4	3	3	3	4	4	3	1
8	2	2	2	3	3	3	2	2	3	3	3	3	4	3	2	3
9	3	3	2	2	3	2	2	2	4	3	4	4	3	4	3	3
10	1	2	3	1	4	4	4	3	3	3	2	3	3	2	2	1
11	3	4	3	2	4	3	2	2	3	2	3	3	4	3	3	3
12	4	3	4	4	3	3	4	3	2	2	2	2	4	4	3	4
13	4	3	2	2	3	3	3	3	3	3	3	2	3	3	2	3
14	3	4	3	2	4	2	2	2	2	3	3	3	3	4	4	3
15	2	2	3	2	3	3	3	3	3	3	3	2	3	4	4	2
16	2	3	2	2	4	3	3	3	2	2	1	1	3	3	2	2
17	2	3	3	2	3	3	3	3	2	2	3	3	4	4	4	4
18	4	3	4	2	3	3	2	3	3	3	2	4	4	4	3	2
19	2	3	2	1	3	3	2	2	3	4	3	2	3	4	4	4
20	3	3	2	2	4	3	2	2	3	2	1	2	3	3	3	2

21	4	4	3	3	3	3	3	2	4	4	4	3	3	4	3	2
22	4	4	3	3	3	3	3	4	3	3	3	4	4	3	4	2
23	4	3	3	2	4	3	3	2	4	3	3	3	4	3	2	2
24	3	3	4	2	3	3	4	2	3	3	3	3	3	3	3	3
25	4	3	3	4	4	4	4	2	4	3	2	2	4	3	3	3
26	3	3	2	2	3	3	3	4	3	3	3	3	3	3	2	1
27	2	2	2	2	4	4	4	2	3	4	3	4	3	3	4	2
28	4	3	3	4	2	3	3	4	4	4	4	4	4	4	3	4
29	3	3	3	4	2	3	3	4	3	3	4	3	3	3	4	4
30	1	2	3	3	2	3	4	2	4	4	2	1	3	1	1	4
Jumlah	86	89	80	69	98	92	89	79	95	92	84	83	102	98	90	81
rata-rata*	2.866	2.966	2.666	2.3	3.266	3.066	2.966	2.6333	3.166	3.066	2.8	2.766	<b>3.4</b>	<b>3.266</b>	<b>3</b>	<b>2.7</b>
Bobot	II	I	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
Variabel**	0.966	1	0.898	0.7752	1	0.938	0.908	0.8061	1	0.968	0.884	0.873	1	0.960	0.882	0.7941

**Lampiran 10. Indeks Efektivitas**

**Tabel 25. Indeks Efektivitas**

<b>variabel</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>jumlah</b>	<b>rata-rata</b>	<b>ranking</b>	<b>BV</b>	<b>BN</b>
kadar air	6	2	8	1	2	2	2	2	1	1	27	2.7	10	0.28125	0.040786
kadar abu	3	1	2	2	1	1	1	1	2	2	16	1.6	11	0.166667	0.024169
kadar protein	5	9	9	3	9	9	8	8	6	8	74	7.4	5	0.770833	0.111782
kadar lemak	4	11	1	9	7	11	9	10	11	9	82	8.2	2	0.854167	0.123867
kadar karbohidrat	2	10	4	11	8	10	7	9	9	7	77	7.7	3	0.802083	0.116314
nilai energi	1	5	10	10	10	5	10	7	8	10	76	7.6	4	0.791667	0.114804
kadar kalium	7	8	11	8	11	8	11	11	10	11	96	9.6	1	1	0.145015
aroma	8	7	3	4	3	7	3	5	4	3	47	4.7	9	0.489583	0.070997
rasa	11	6	7	5	5	6	5	4	7	5	61	6.1	6	0.635417	0.092145
warna	10	4	6	6	4	5	4	3	5	4	51	5.1	8	0.53125	0.077039
tekstur	9	3	5	7	6	4	6	6	3	6	55	5.5	7	0.572917	0.083082
													jumlah	6.895833	

perlakuan	karbohidrat	protein	lemak	kalium	energi	warna	aroma	rasa	tekstur	air	abu
P0	55.53	7.42	11.98	233.55	356.58	2.86	2.96	2.66	2.3	63.65	6.77
P1	45.67	11.06	14.28	592.23	338.91	3.266	3.066	2.96	2.63	65.97	7.97
P2	45.62	11.02	14.9	651.03	345.79	3.16	3.06	2.8	2.7	66.48	8.27
P3	45.56	12.07	15.52	709.82	352.67	3.4	3.26	3	2.7	66.99	8.57

variabel	P0		P1		P2		P3	
	ne	nh	Ne	nh	ne	nh	ne	nh
kadar air	0	0	0.6946	0.028330048	0.84731	0.03456	1	<b>0.0408</b>
kadar abu	0	0	0.6667	0.01611279	0.83333	0.02014	1	<b>0.0242</b>
kadar protein	0	0	0.7828	0.087502847	0.77419	0.08654	1	<b>0.1118</b>
kadar lemak	0	0	0.011	0.001366638	0.82486	0.10217	1	<b>0.1239</b>
kadar karbohidrat	1	0.11631421	0.011	0.001283306	0.00552	0.00064	0	<b>0</b>
nilai energi	1	0.11480363	0	0	0.38936	0.0447	0.77872	<b>0.0894</b>
kadar kalium	0	0	0.7531	0.109211205	0.87656	0.12711	1	<b>0.145</b>
aroma	0	0	0.3333	0.023665661	0.33333	0.02367	1	<b>0.071</b>
rasa	0	0	0.8824	0.081304429	0.41176	0.03794	1	<b>0.0921</b>
warna	0	0	0.7407	0.057066132	0.55556	0.0428	1	<b>0.077</b>
tekstur	0	0	0.825	0.068542299	1	0.08308	1	<b>0.0831</b>
jumlah		0.23111784		0.474385356		0.60336		<b>0.8583</b>

KODE	KADAR AIR (%)	KADAR ABU		KADAR LEMAK		KADAR PROTEIN		KADAR KH	KALIUM	ENERGI	
	SNI 01-2891-1992	SNI 01-2891-1992		SNI 01-2891-1992		AOAC, 2016		100%-(L+P+AIR+ABU)	TERBAIK	(4*P)+(9*L)+(4*KH)	
	BUTIR 5.1.1-5.1.3	BUTIR 6.1.1-6.1.3		BUTIR 8.1.1-8.1.4		No.12.1.07					
		(%bb)	(%bk)	(%bb)	(%bk)	(%bb)	(%bk)				
P33	61	9.6	1.39	1.85	13.37	12.73	9.08	12.04	63.78	417.85	
P12	82	11.48	1.36	1.87	12.69	12.49	8.56	11.8	62.36	409.05	
P03	102	10.45	1.29	1.76	13.35	13.19	8.41	11.46	63.14	417.11	
P22	131	10.49	1.76	2.53	14.27	10.47	11.06	15.86	60.65	400.27	
P32	201	8.94	1.84	2.49	16.03	13.61	11.56	15.58	59.38	422.33	
P13	222	12.02	0.24	0.36	13.2	14.42	11.44	16.83	56.37	422.58	
P11	235	12.16	0.38	0.49	16.89	11.68	14.1	18.11	57.56	407.8	
P21	244	11.97	0.45	0.6	12.92	12.29	13.56	18.15	56.99	411.17	
P31	535	8.82	0.42	0.54	18.76	14.32	13.93	18.05	58.27	1.54	434.16
P23	499	10.29	0.39	0.54	15.09	11.04	12.17	16.96	61.17	411.88	
P01	539	10.67	0.12	0.16	16.84	12.35	14.02	18.61	58.21	418.43	
P02	606	10.29	0.11	0.16	15.58	11.41	12.6	17.31	60.83	415.25	