

**Lampiran 1.** Tabel Kandungan Asam Amino (AA) Esensial Bahan Makanan (mg AA per gram protein)

No.	Nama Bahan Makanan	Kadar Prot. (%)	Lysin	Metionin	Sistein	Treonin	Triptofan	Asam amino Pembatas (Defisit)
1.	Singkong	1.1	40.9	6.4	10.9	27.3	12.7	AAS
2.	Tepung Terigu	9.2	24.3	17.0	19.8	28.9	12.3	Lisin
3.	Daging ayam	18.1	76.6	27.4	8.5	47.1	9.5	Valin
4.	Daging sapi	16.9	78.6	33.1	9.9	46.7	8.7	Valin
5.	Belut	19.0	89.6	25.6	12.6	41.6	10.7	Valin
6.	Telur ayam ras	12.2	61.0	23.3	19.2	42.9	12.3	Isoleusin
7.	Telur ayam ras, kuningnya	16.3	76.9	20.8	17.6	48.0	15.2	AAS
8.	Susu Sapi, segar	3.2	85.0	26.9	9.7	50.3	15.3	AAS

(Sumber : Hardinsyah, 1992)

**Lampiran 2.** Pola Kecukupan Asam Amino (AA) Esensial menurut Tahap Perkembangan Manusia Kelompok Umur (Miligram AA per gram protein kebutuhan)

Kelompok umur menurut WHO/FAO/UNU 2007	Lysin	Total AAS (Metionin+sistein)	Treonin	Triptofan
1. 0.5 tahun	57	28	31	8.5
2. 1-2 tahun	58	25	34	11
3. 3-10 tahun	48	24	25	6.6
4. 11-14 tahun	48	23	25	6.5
5. 15-18 tahun	47	23	24	6.3

(Sumber : WHO/FAO/UNU, 2007)



**Lampiran 3.** Tabel Indeks APM dengan Tingkat Kepercayaan 95% untuk berbagai kombinasi hasil positif dari 3 seri tabung pada pengenceran  $10^1, 10^2, 10^3$

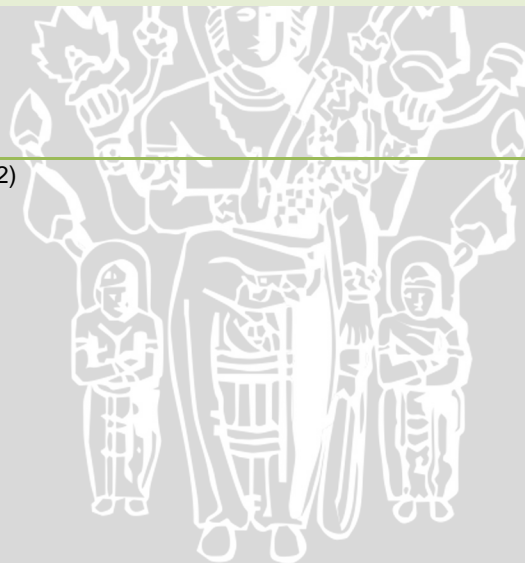
Tabung Positif			APM/ g	Tingkat Kepercayaan		Tabung Positif			APM/ g	Tingkat Kepercayaan	
$10^1$	$10^2$	$10^3$		Bawah	Atas	$10^1$	$10^2$	$10^3$		bawah	atas
0	0	0	<3,6	-	9,5	2	2	0	21	4,5	42
0	0	1	3,0	0,15	9,6	2	2	1	28	8,7	94
0	1	0	3,0	0,15	11	2	2	2	35	8,7	94
0	1	1	6,1	1,2	18	2	3	0	29	8,7	94
0	2	0	6,2	1,2	18	2	3	1	36	8,7	94
0	3	0	9,4	3,6	38	3	0	0	23	4,6	94
1	0	0	3,6	0,17	18	3	0	1	38	8,7	94
1	0	1	7,2	1,3	18	3	0	2	64	17	110
1	0	2	11	3,6	38	3	1	0	43	9	180
1	1	0	7,4	1,3	38	3	1	1	74	17	180
1	1	1	11	3,6	38	3	1	2	120	37	200
1	2	0	11	3,6	42	3	1	3	160	40	420
1	2	1	15	4,5	42	3	2	0	93	18	420
1	3	0	16	4,5	42	3	2	1	150	37	420
2	0	0	9,2	1,4	38	3	2	2	210	40	430
2	0	1	14	3,6	42	3	2	3	290	90	1000
2	0	2	20	4,5	42	3	3	0	240	42	1000
2	1	0	15	3,7	42	3	3	1	460	90	2000
2	1	1	20	4,5	42	3	3	2	1100	180	4100
2	1	2	27	8,7	94	3	3	3	>1100	420	--

(Sumber : Food and Drug Administration Bacteriological Analytical Manual. 8<sup>th</sup> edition, 2001. Chapter 12. AOAC)

**Lampiran 4. Contoh Tabel Penentuan SAA Pangan**

No.	Jenis Bahan Makanan	Berat (g)	Protein (g)	Asam Amino (AA)			
				Lysin (mg)	Treonin (mg)	Triptofan (mg)	Metionin + Sistin (mg)
1.							
2.							
3.							
<b>Jumlah</b>			<b>P</b>	<b>L</b>	<b>T</b>	<b>R</b>	<b>M</b>
<b>Konsumsi AA per gram protein (mg/g)</b>				<b>L/P</b>	<b>T/P</b>	<b>R/P</b>	<b>M/P</b>
<b>Pola Kecukupan Asam Amino Esensial (PKAE)</b>							

(Sumber : Hardinsyah, 1992)



**Lampiran 5. Surat Persetujuan Menjadi Responden**

**SURAT PERSETUJUAN MENJADI RESPONDEN**

**(Informed Consent)**

Saya telah mendapat penjelasan dengan baik mengenai tujuan dan manfaat penelitian yang berjudul “Pengaruh MOCAF (*Modified Cassava Flour*) dan Tepung Belut terhadap Mutu Pangan *Cookies* sebagai alternative Pangan bagi Anak Autis”

Saya mengerti bahwa saya akan diminta untuk mengisi kuesioner dan memberikan penilaian terhadap cookies berbahan dasar MOCAF dan tepung belut. Saya mengerti bahwa resiko yang akan terjadi dari penelitian ini tidak ada.

Saya mengerti bahwa saya berhak menolak untuk berperan serta dalam penelitian ini atau mengundurkan diri dari penelitian setiap saat tanpa adanya sanksi atau kehilangan hak-hak saya.

Saya telah diberi kesempatan untuk bertanya mengenai penelitian ini atau mengenai peran serta saya dalam penelitian ini, dan telah dijawab serta dijelaskan secara memuaskan. Saya secara sukarela dan sadar bersedia berperan serta dalam penelitian ini dengan menandatangani Surat Persetujuan Menjadi Responden.

Malang, .....2013

Saksi:

Responden

1. (.....)

(.....)

2. (.....)

## Lampiran 6. Lembar Analisa Uji Penerimaan Cookies berbahan dasar MOCAP dan Tepung Belut

### Uji Organoleptik

#### (Hedonic Scale Scoring)

Nama Panelis :  
 Tanggal :  
 Nama Peneliti : Izzati Nur Khoiriani  
 Nama Produk : Cookies Asin

Saudara dimohon untuk memberikan penilaian terhadap rasa, aroma, warna, dan tekstur dari sampel cookies MOCAP dan tepung belut ini sesuai dengan tingkat kesukaan anda. Hasil penilaian anda akan dinyatakan dalam skala angka. Keterangan lebih jelas mengenai skala penilaian dapat dibaca dibawah ini. Atas perhatian dan kerja samanya, saya ucapkan terima kasih.

Produk Cookies	Parameter			
	Rasa	Aroma	warna	Tekstur
194				
502				
736				
242				
182				

Skala penilaian :

12 : amat sangat suka

11 : sangat suka

10 : suka

9 : agak suka

8 : agak tidak suka

7 : tidak suka

6 : sangat tidak suka

Terima kasih atas bantuan dan waktu yang telah Anda sediakan ☺

Lampiran 7. Hasil Analisa Uji kadar protein

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
kadar.protein	20	100.0%	0	.0%	20	100.0%

Descriptives

		Statistic	Std. Error
kadar.protein	Mean	12.3960	1.41996
	95% Confidence Interval for Mean		
	Lower Bound	9.4240	
	Upper Bound	15.3680	
	5% Trimmed Mean	12.4033	
	Median	12.8000	
	Variance	40.326	
	Std. Deviation	6.35025	
	Minimum	3.55	
	Maximum	21.11	
	Range	17.56	
	Interquartile Range	10.12	
	Skewness	-.097	.512
	Kurtosis	-1.454	.992

Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
kadar.protein	.162	20	.179	.901	20	.043

a. Lilliefors Significance Correction



**Descriptives**

		Statistic	Std. Error
kdr.protein	Mean	.3257	.02562
	95% Confidence Interval for Lower Bound	.2720	
	Mean Upper Bound	.3793	
	5% Trimmed Mean	.3203	
	Median	.2796	
	Variance	.013	
	Std. Deviation	.11458	
	Minimum	.22	
	Maximum	.53	
	Range	.31	
	Interquartile Range	.13	
	Skewness	.988	.512
	Kurtosis	-.461	.992

**Tests of Normality**

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
kdr.protein	.243	20	.003	.800	20	.001

a. Lilliefors Significance Correction

**Descriptives**

		Statistic	Std. Error
kdr_protein	Mean	1.0201	.06282
	95% Confidence Interval for Lower Bound	.8886	
	Mean Upper Bound	1.1516	
	5% Trimmed Mean	1.0293	
	Median	1.1070	
	Variance	.079	
	Std. Deviation	.28096	
	Minimum	.55	





Maximum	1.32	
Range	.77	
Interquartile Range	.37	
Skewness	-.696	.512
Kurtosis	-.915	.992

**Tests of Normality**

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
kdr_protein	.205	20	.027	.852	20	.006

a. Lilliefors Significance Correction

**Kruskal-Wallis Test**

Ranks			
	taraf_p erlaku n	N	Mean Rank
kdr_protein	0	4	2.50
	1	4	6.50
	2	4	10.50
	3	4	14.50
	4	4	18.50
	Total	20	

Test Statistics <sup>a,b</sup>	
	kdr_protein
Chi-Square	18.299
df	4
Asymp. Sig.	.001

a. Kruskal Wallis Test

b. Grouping Variable:

taraf\_perlakuan



### Mann-Whitney Test

Ranks

taraf_p erlaku n	N	Mean Rank	Sum of Ranks
kdr_protein 0	4	2.50	10.00
1	4	6.50	26.00
Total	8		

Test Statistics<sup>b</sup>

	kdr_protein
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.309
Asymp. Sig. (2-tailed)	.021
Exact Sig. [2*(1-tailed Sig.)]	.029 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: taraf\_perlakuan

Ranks

taraf_p erlaku n	N	Mean Rank	Sum of Ranks
kdr_protein 0	4	2.50	10.00
2	4	6.50	26.00
Total	8		

Test Statistics<sup>b</sup>

	kdr_protein
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.323
Asymp. Sig. (2-tailed)	.020
Exact Sig. [2*(1-tailed Sig.)]	.029 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: taraf\_perlakuan



**Ranks**

taraf_p erlakuan n	N	Mean Rank	Sum of Ranks
kdr_protein 0	4	2.50	10.00
3	4	6.50	26.00
Total	8		

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

	kdr_protein
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.309
Asymp. Sig. (2-tailed)	.021
Exact Sig. [2*(1-tailed Sig.)]	.029 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: taraf\_perlakuan

**Ranks**

taraf_p erlakuan n	N	Mean Rank	Sum of Ranks
kdr_protein 0	4	2.50	10.00
4	4	6.50	26.00
Total	8		

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

	kdr_protein
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.309
Asymp. Sig. (2-tailed)	.021
Exact Sig. [2*(1-tailed Sig.)]	.029 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: taraf\_perlakuan

Test Statistics<sup>b</sup>

	kdr_protein
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.309
Asymp. Sig. (2-tailed)	.021
Exact Sig. [2*(1-tailed Sig.)]	.029 <sup>a</sup>

a. Not corrected for ties.

Tabel Nilai *p* pada Uji *Mann-Whitney* Antar Kelompok

Kelompok	P0	P1	P2	P3	P4
<b>P0</b>		0.021	0.020	0.021	0.021
<b>P1</b>	0.021		0.020	0.021	0.021
<b>P2</b>	0.020	0.020		0.020	0.020
<b>P3</b>	0.021	0.021	0.020		0.021
<b>P4</b>	0.021	0.021	0.020	0.021	

Keterangan : (Substitusi MOCAF dan Tepung Belut)

P0 = 100% : 0% P1 = 90% : 10% P2 = 80% : 20% p3 = 70% : 30% p4 = 60% : 40%



## Lampiran 8. Perhitungan Mutu protein

Tabel 8.1 Perhitungan Skor Asam Amino

no.	jenis bahan makanan	berat (g)	protein (g)	Asam Amino			
				lysine (mg)	treonine (mg)	tryptophan (mg)	methionine (mg)
1	tepung belut	0	0.00	0.00	0.00	0.00	0.00
2	mocaf	623.9601	7.49	306.24	204.41	95.09	129.53
3	telur ayam	35	4.27	260.47	183.18	52.52	181.48
4	margarin	0	0.00	0.00	0.00	0.00	0.00
5	garam	0	0.00	0.00	0.00	0.00	0.00
6							
	jumlah	658.96	11.76	566.71	387.59	147.61	311.01
	konsumsi AA per gram protein (mg/g)			48.20	32.97	12.55	26.45
	Pola WHO/FAO/UNU (mg/g protein)			58	34	11.0	25
	TKAE (lysine)		83				
	TKAE (treonine)		97				
	TKAE (tryptophan)		114				
	TKAE (methionine)		106				

## p11

no.	jenis bahan makanan	berat (g)	protein (g)	Asam Amino			
				lysin (mg)	treonin (mg)	triptofan (mg)	metsin (mg)
1	tepung belut	114.5038	21.76	1949.31	905.04	232.79	831.07
2	mocaf	561.5641	6.74	275.62	183.97	85.58	116.58
3	telur ayam	35	4.27	260.47	183.18	52.52	181.48
4	margarin	0	0.00	0.00	0.00	0.00	0.00
5	garam	0	0.00	0.00	0.00	0.00	0.00
6							
	jumlah	711.07	32.76	2485.40	1272.19	370.89	1129.12
	konsumsi AA per gram protein (mg/g)			75.86	38.83	11.32	34.46
	Pola WHO/FAO/UNU (mg/g protein)			58	34	11.0	25
	TKAE (lysin)		131				
	TKAE (treonin)		114				
	TKAE (triptofan)		103				
	TKAE (metsin)		138				

## p21

no.	jenis bahan makanan	berat (g)	protein (g)	Asam Amino			
				lysin (mg)	treonin (mg)	triptofan (mg)	metsin (mg)

1	tepung belut	229.0076	43.51	3898.63	1810.08	465.57	1662.14
2	mocaf	499.1681	4.99	204.16	136.27	63.39	86.36
3	telur ayam	35	4.27	260.47	183.18	52.52	181.48
4	margarin	0	0.00	0.00	0.00	0.00	0.00
5	garam	0	0.00	0.00	0.00	0.00	0.00
6							
	jumlah	763.18	52.77	4363.26	2129.53	581.49	1929.97
	konsumsi AA per gram protein (mg/g)			82.68	40.35	11.02	36.57
	Pola WHO/FAO/UNU (mg/g protein)			58	34	11.0	25
	TKAE (lysin)		143				
	TKAE (treonin)		119				
	TKAE (triptofan)		100				
	TKAE (metsin)		146				

## p31

no.	jenis bahan makanan	berat (g)	protein (g)	Asam Amino			
				lysin (mg)	treonin (mg)	triptofan (mg)	metsin (mg)
1	tepung belut	343.5115	65.27	5847.94	2715.11	698.36	2493.21
2	mocaf	436.772	4.37	178.64	119.24	55.47	75.56
3	telur ayam	35	4.27	260.47	183.18	52.52	181.48
4	margarin	0	0.00	0.00	0.00	0.00	0.00

5	garam	0	0.00	0.00	0.00	0.00	0.00
6							
	jumlah	815.28	73.90	6287.05	3017.54	806.35	2750.24
	konsumsi AA per gram protein (mg/g)			85.07	40.83	10.91	37.21
	Pola WHO/FAO/UNU (mg/g protein)			58	34	11.0	25
	TKAE (lysin)			147			
	TKAE (treonin)			120			
	TKAE (triptofan)			99			
	TKAE (metsin)			149			
<b>p41</b>							
no.	jenis bahan makanan	berat (g)	protein (g)	Asam Amino			
				lysin (mg)	treonin (mg)	triptofan (mg)	metsin (mg)
1	tepung belut	458.0153	87.02	7797.25	3620.15	931.15	3324.27
2	mocaf	374.376	3.74	153.12	102.20	47.55	64.77
3	telur ayam	35	4.27	260.47	183.18	52.52	181.48
4	margarin	0	0.00	0.00	0.00	0.00	0.00
5	garam	0	0.00	0.00	0.00	0.00	0.00
6							
	jumlah	867.39	95.04	8210.84	3905.54	1031.21	3570.52



konsumsi AA per gram protein (mg/g)	86.40	41.10	10.85	37.57
Pola WHO/FAO/UNU (mg/g protein)	58	34	11.0	25
TKAE (lysin)	149			
TKAE (treonin)	121			
TKAE (triptofan)	99			
TKAE (metsin)	150			

Tabel 8.2 Perhitungan NPV

	SAA	% protein	NPV
<b>p0</b>	83	1.78	1.48
<b>p1</b>	103	4.61	4.75
<b>p2</b>	100	6.91	6.91
<b>p3</b>	99	9.06	8.97
<b>p4</b>	99	10.94	10.83

Tabel 8.3 Perbandingan Prosentase Perhitungan % Protein dengan Metode Kjeldahl dan Perhitungan Mutu Protein

	Metode Kjeldahl (%)	Perhitungan teoritis (%)
<b>p0</b>	3.60	1.78
<b>p1</b>	7.70	4.61
<b>p2</b>	12.80	6.91
<b>p3</b>	17.26	9.06
<b>p4</b>	20.78	10.94

Lampiran 9. Hasil Pengamatan Gelembung Gas pada Tabung Durham

Perlakuan	Rep Dup		Inkubasi ± 24 jam			Inkubasi ± 48 jam		
			10 <sup>-1</sup>	10 <sup>-2</sup>	10 <sup>-3</sup>	10 <sup>-1</sup>	10 <sup>-2</sup>	10 <sup>-3</sup>
<b>P0</b>	1	1	0	0	0	1	1	1
		2	0	0	0	1	1	1
	2	1	0	0	0	1	1	1
		2	0	0	0	1	1	1
<b>P1</b>	1	1	0	0	0	1	1	1
		2	0	0	0	1	1	1
	2	1	0	0	0	1	1	1
		2	0	0	0	1	1	1
<b>P2</b>	1	1	0	0	0	1	1	1
		2	0	0	0	1	1	1
	2	1	0	0	0	1	1	1
		2	0	0	0	1	1	1
<b>P3</b>	1	1	0	0	0	1	1	1
		2	0	0	0	1	1	1
	2	1	0	0	0	1	1	1
		2	0	0	0	1	1	1
<b>P4</b>	1	1	0	0	0	1	2	1
		2	0	0	0	1	2	1
	2	1	0	0	0	1	2	1
		2	0	0	0	1	2	1



Lampiran 10. Hasil Analisa Uji mikrobiologi

Descriptives

		Statistic	Std. Error
jumlah.bakteri	Mean	11.8000	.36707
	95% Confidence Interval for Lower Bound	11.0317	
	Mean Upper Bound	12.5683	
	5% Trimmed Mean	11.6667	
	Median	11.0000	
	Variance	2.695	
	Std. Deviation	1.64157	
	Minimum	11.00	
	Maximum	15.00	
	Range	4.00	
	Interquartile Range	.00	
	Skewness	1.624	.512
	Kurtosis	.699	.992

Tests of Normality

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
jumlah.bakteri	.487	20	.000	.495	20	.000

a. Lilliefors Significance Correction

Descriptives

		Statistic	Std. Error
jml.bakteri	Mean	.2928	.00397
	95% Confidence Interval for Lower Bound	.2845	
	Mean Upper Bound	.3012	
	5% Trimmed Mean	.2943	
	Median	.3015	
	Variance	.000	
	Std. Deviation	.01778	

Minimum	.26	
Maximum	.30	
Range	.04	
Interquartile Range	.00	
Skewness	-1.624	.512
Kurtosis	.699	.992

**Tests of Normality**

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
jml.bakteri	.487	20	.000	.495	20	.000

a. Lilliefors Significance Correction

**Ranks**

	taraf_p erlakuan	N	Mean Rank
jml.bakteri	0	4	12.50
	1	4	12.50
	2	4	12.50
	3	4	12.50
	4	4	2.50
	Total	20	

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

	jml.bakteri
Chi-Square	19.000
df	4
Asymp. Sig.	.001

a. Kruskal Wallis Test

b. Grouping Variable: taraf\_perlakuan



### Mann-Whitney Test

Ranks

taraf_p erlakuan n		N	Mean Rank	Sum of Ranks
jml_bakteri	0	4	4.50	18.00
	1	4	4.50	18.00
	Total	8		

Test Statistics<sup>b</sup>

	jml_bakteri
Mann-Whitney U	8.000
Wilcoxon W	18.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: taraf\_perlakuan

Ranks

taraf_p erlakuan n		N	Mean Rank	Sum of Ranks
jml_bakteri	0	4	4.50	18.00
	2	4	4.50	18.00
	Total	8		

Test Statistics<sup>b</sup>

	jml_bakteri
Mann-Whitney U	8.000
Wilcoxon W	18.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: taraf\_perlakuan



**Ranks**

taraf_p erlakua n	N	Mean Rank	Sum of Ranks
jml_bakteri 0	4	4.50	18.00
3	4	4.50	18.00
Total	8		

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

	jml_bakteri
Mann-Whitney U	8.000
Wilcoxon W	18.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: taraf\_perlakuan

**Ranks**

taraf_p erlakua n	N	Mean Rank	Sum of Ranks
jml_bakteri 0	4	2.50	10.00
4	4	6.50	26.00
Total	8		

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

	jml_bakteri
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008

Exact Sig. [2\*(1-tailed Sig.)] .029<sup>a</sup>

- a. Not corrected for ties.
- b. Grouping Variable: taraf\_perlakuan

**Ranks**

taraf_perlakuan	n	N	Mean Rank	Sum of Ranks
jml_bakteri	1	4	2.50	10.00
	4	4	6.50	26.00
Total		8		

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

	jml_bakteri
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 <sup>a</sup>

- a. Not corrected for ties.
- b. Grouping Variable: taraf\_perlakuan

**Ranks**

taraf_perlakuan	n	N	Mean Rank	Sum of Ranks
jml_bakteri	2	4	2.50	10.00
	4	4	6.50	26.00
Total		8		

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

	jml_bakteri
Mann-Whitney U	.000



Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: taraf\_perlakuan

Ranks				
taraf_p erlakuan	n	N	Mean Rank	Sum of Ranks
jml_bakteri	3	4	2.50	10.00
	4	4	6.50	26.00
Total		8		

Test Statistics <sup>b</sup>	
	jml_bakteri
Mann-Whitney U	.000
Wilcoxon W	10.000
Z	-2.646
Asymp. Sig. (2-tailed)	.008
Exact Sig. [2*(1-tailed Sig.)]	.029 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: taraf\_perlakuan

Ranks				
taraf_p erlakuan	n	N	Mean Rank	Sum of Ranks
jml_bakteri	2	4	4.50	18.00
	3	4	4.50	18.00
Total		8		



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

	jml_bakteri
Mann-Whitney U	8.000
Wilcoxon W	18.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: taraf\_perlakuan

**Ranks**

taraf_perlakuan	n	N	Mean Rank	Sum of Ranks
jml_bakteri 1	1	4	4.50	18.00
2	2	4	4.50	18.00
Total	3	8		

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

	jml_bakteri
Mann-Whitney U	8.000
Wilcoxon W	18.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: taraf\_perlakuan



**Ranks**

taraf_p erlakuan n	N	Mean Rank	Sum of Ranks
jml_bakteri 1	4	4.50	18.00
3	4	4.50	18.00
Total	8		

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

	jml_bakteri
Mann-Whitney U	8.000
Wilcoxon W	18.000
Z	.000
Asymp. Sig. (2-tailed)	1.000
Exact Sig. [2*(1-tailed Sig.)]	1.000 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: taraf\_perlakuan

**Tabel Nilai p pada Uji Mann-Whitney antar Perlakuan**

Kelompok	P0	P1	P2	P3	P4
<b>P0</b>		1.000	1.000	1.000	0.008*
<b>P1</b>	1.000		1.000	1.000	0.008*
<b>P2</b>	1.000	1.000		1.000	0.008*
<b>P3</b>	1.000	1.000	1.000		0.008*
<b>P4</b>	0.008*	0.008*	0.008*	0.008*	

Keterangan : \*terdapat perbedaan yang bermakna (p < 0,005)

(Substitusi MOCAF dan Tepung Belut)

P0 = 100% : 0% P1 = 90% : 10% P2 = 80% : 20% p3 = 70% : 30% p4 = 60% : 40%

Lampiran 11. Hasil Penilaian Panelis pada Uji Organoleptik

p	p0				p1				p2				p3				p4			
	warna	rasa	aroma	tekstur	warna	rasa	aroma	tekstur	warna	rasa	aroma	tekstur	warna	rasa	aroma	tekstur	warna	rasa	aroma	tekstur
1	11	8	10	8	11	10	10	11	11	10	11	11	11	11	10	11	8	8	8	11
2	10	8	8	9	10	8	8	9	10	9	8	9	10	8	8	9	10	8	8	9
3	10	10	8	11	11	10	9	10	11	10	10	10	8	8	10	10	8	7	8	11
4	10	10	8	11	9	9	9	8	10	9	7	9	9	8	8	10	7	9	7	10
5	9	9	9	8	9	9	9	9	9	10	10	10	10	10	10	10	10	9	10	10
6	10	9	9	11	10	10	9	11	7	8	10	8	7	11	9	11	9	10	9	12
7	7	7	9	9	8	10	10	8	10	9	10	10	10	9	10	10	6	10	10	10
8	10	7	7	7	9	9	9	9	7	8	9	10	8	8	8	8	7	9	10	9
9	10	10	9	9	8	7	10	8	9	8	7	8	9	9	9	9	8	6	7	7
10	9	10	8	10	10	8	8	9	8	8	9	9	8	8	9	10	8	10	10	10
11	7	9	9	11	8	8	9	10	11	8	8	11	10	10	7	8	9	8	8	9
12	8	6	7	7	7	7	8	9	7	6	6	9	6	6	6	9	8	8	8	9
13	9	7	7	9	9	7	7	7	7	7	7	7	9	7	7	9	7	6	7	10
14	11	8	10	11	11	9	10	11	11	10	11	11	11	11	10	11	8	8	11	11
15	10	8	8	9	10	8	9	9	10	9	8	9	10	8	8	9	10	8	8	9
16	10	10	8	11	11	10	8	10	11	10	10	10	8	7	10	8	8	7	8	7
17	10	10	8	8	9	10	8	10	10	9	8	10	9	7	8	10	7	9	7	9
18	9	9	9	9	9	9	9	9	9	8	10	10	10	10	10	10	10	9	10	10
19	10	9	9	11	10	9	9	8	8	10	9	8	7	8	9	11	9	10	9	12
20	9	7	9	8	8	10	10	11	10	9	9	10	10	10	10	10	6	10	10	10
TS	4	9	10	6	5	7	6	5	6	8	8	4	7	11	8	3	13	10	11	2
S	16	11	10	14	15	13	14	15	14	12	12	16	13	9	12	17	7	10	9	18

\*merah : skor tidak suka, hitam : skor suka

Lampiran 12. Hasil Analisa Penilaian Organoleptik Panelis

Case Processing Summary

	Cases					
	Valid		Missing		Total	
	N	Percent	N	Percent	N	Percent
warna	100	80.0%	25	20.0%	125	100.0%
rasa	100	80.0%	25	20.0%	125	100.0%
aroma	100	80.0%	25	20.0%	125	100.0%
tekstur	100	80.0%	25	20.0%	125	100.0%

Descriptives

		Statistic	Std. Error
warna	Mean	9.0400	.13553
	95% Confidence Interval for Mean		
	Lower Bound	8.7711	
	Upper Bound	9.3089	
	5% Trimmed Mean	9.0778	
	Median	9.0000	
	Variance	1.837	
	Std. Deviation	1.35527	
	Minimum	6.00	
	Maximum	11.00	
	Range	5.00	
	Interquartile Range	2.00	
	Skewness	-.372	.241
	Kurtosis	-.794	.478
rasa	Mean	8.6600	.12409
	95% Confidence Interval for Mean		
	Lower Bound	8.4138	
	Upper Bound	8.9062	

	5% Trimmed Mean		8.7000	
	Median		9.0000	
	Variance		1.540	
	Std. Deviation		1.24089	
	Minimum		6.00	
	Maximum		11.00	
	Range		5.00	
	Interquartile Range		2.00	
	Skewness		-.294	.241
	Kurtosis		-.673	.478
aroma	Mean		8.7300	.11446
	95% Confidence Interval for Mean	Lower Bound	8.5029	
		Upper Bound	8.9571	
	5% Trimmed Mean		8.7444	
	Median		9.0000	
	Variance		1.310	
	Std. Deviation		1.14464	
	Minimum		6.00	
	Maximum		11.00	
	Range		5.00	
	Interquartile Range		2.00	
	Skewness		-.192	.241
	Kurtosis		-.683	.478
tekstur	Mean		9.5000	.12019
	95% Confidence Interval for Mean	Lower Bound	9.2615	
		Upper Bound	9.7385	
	5% Trimmed Mean		9.5333	
	Median		10.0000	
	Variance		1.444	
	Std. Deviation		1.20185	
	Minimum		7.00	
	Maximum		12.00	

Range	5.00	
Interquartile Range	1.00	
Skewness	-.232	.241
Kurtosis	-.556	.478

**Tests of Normality**

	Kolmogorov-Smirnov <sup>a</sup>			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
warna	.211	100	.000	.914	100	.000
rasa	.170	100	.000	.918	100	.000
aroma	.168	100	.000	.918	100	.000
tekstur	.171	100	.000	.926	100	.000

a. Lilliefors Significance Correction

**Kruskal-Wallis Test**

**Ranks**

	perlakuan	N	Mean Rank
rec.warna	0	20	58.00
	1	20	55.50
	2	20	53.00
	3	20	50.50
	4	20	35.50
	Total		100
rec.rasa	0	20	50.50
	1	20	55.50
	2	20	53.00
	3	20	45.50
	4	20	48.00



	Total	100	
rec.aroma	0	20	47.00
	1	20	57.00
	2	20	52.00
	3	20	52.00
	4	20	44.50
	Total	100	
rec.tekstur	0	20	45.50
	1	20	48.00
	2	20	50.50
	3	20	53.00
	4	20	55.50
	Total	100	

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

	rec.warna	rec.rasa	rec.aroma	rec.tekstur
Chi-Square	10.879	2.000	3.070	3.094
df	4	4	4	4
Asymp. Sig.	.028	.736	.546	.542

a. Kruskal Wallis Test

b. Grouping Variable: perlakuan

**Mann-Whitney Test**

**Ranks**

	perlakuan	N	Mean Rank	Sum of Ranks
rec.warna	0	20	21.00	420.00
	1	20	20.00	400.00
	Total	40		
rec.rasa	0	20	19.50	390.00

	1	20	21.50	430.00
	Total	40		
rec.aroma	0	20	18.50	370.00
	1	20	22.50	450.00
	Total	40		
rec.tekstur	0	20	20.00	400.00
	1	20	21.00	420.00
	Total	40		

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

	rec.warna	rec.rasa	rec.aroma	rec.tekstur
Mann-Whitney U	190.000	180.000	160.000	190.000
Wilcoxon W	400.000	390.000	370.000	400.000
Z	-.374	-.637	-1.275	-.350
Asymp. Sig. (2-tailed)	.708	.524	.202	.727
Exact Sig. [2*(1-tailed Sig.)]	.799 <sup>a</sup>	.602 <sup>a</sup>	.289 <sup>a</sup>	.799 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: perlakuan

**Ranks**

	perlakuan	N	Mean Rank	Sum of Ranks
rec.warna	0	20	21.50	430.00
	2	20	19.50	390.00
	Total	40		
rec.rasa	0	20	20.00	400.00
	2	20	21.00	420.00
	Total	40		
rec.aroma	0	20	19.50	390.00
	2	20	21.50	430.00



	Total	40		
rec.tekstur	0	20	19.50	390.00
	2	20	21.50	430.00
	Total	40		

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

	rec.warna	rec.rasa	rec.aroma	rec.tekstur
Mann-Whitney U	180.000	190.000	180.000	180.000
Wilcoxon W	390.000	400.000	390.000	390.000
Z	-.721	-.316	-.628	-.721
Asymp. Sig. (2-tailed)	.471	.752	.530	.471
Exact Sig. [2*(1-tailed Sig.)]	.602 <sup>a</sup>	.799 <sup>a</sup>	.602 <sup>a</sup>	.602 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: perlakuan

**Ranks**

	perlakuan	N	Mean Rank	Sum of Ranks
rec.warna	0	20	22.00	440.00
	3	20	19.00	380.00
	Total	40		
rec.rasa	0	20	21.50	430.00
	3	20	19.50	390.00
	Total	40		
rec.aroma	0	20	19.50	390.00
	3	20	21.50	430.00
	Total	40		
rec.tekstur	0	20	19.00	380.00
	3	20	22.00	440.00
	Total	40		



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

	rec.warna	rec.rasa	rec.aroma	rec.tekstur
Mann-Whitney U	170.000	180.000	180.000	170.000
Wilcoxon W	380.000	390.000	390.000	380.000
Z	-1.049	-.624	-.628	-1.122
Asymp. Sig. (2-tailed)	.294	.532	.530	.262
Exact Sig. [2*(1-tailed Sig.)]	.429 <sup>a</sup>	.602 <sup>a</sup>	.602 <sup>a</sup>	.429 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: perlakuan

**Ranks**

	perlakuan	N	Mean Rank	Sum of Ranks
rec.warna	0	20	25.00	500.00
	4	20	16.00	320.00
	Total	40		
rec.rasa	0	20	21.00	420.00
	4	20	20.00	400.00
	Total	40		
rec.aroma	0	20	21.00	420.00
	4	20	20.00	400.00
	Total	40		
rec.tekstur	0	20	18.50	370.00
	4	20	22.50	450.00
	Total	40		

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

	rec.warna	rec.rasa	rec.aroma	rec.tekstur
Mann-Whitney U	110.000	190.000	190.000	160.000



Wilcoxon W	320.000	400.000	400.000	370.000
Z	-2.842	-.313	-.313	-1.561
Asymp. Sig. (2-tailed)	.004	.755	.755	.118
Exact Sig. [2*(1-tailed Sig.)]	.014 <sup>a</sup>	.799 <sup>a</sup>	.799 <sup>a</sup>	.289 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: perlakuan

Ranks				
	perlakuan	N	Mean Rank	Sum of Ranks
rec.warna	1	20	24.50	490.00
	4	20	16.50	330.00
	Total	40		
rec.rasa	1	20	22.00	440.00
	4	20	19.00	380.00
	Total	40		
rec.aroma	1	20	23.00	460.00
	4	20	18.00	360.00
	Total	40		
rec.tekstur	1	20	19.00	380.00
	4	20	22.00	440.00
	Total	40		

Test Statistics<sup>b</sup>

	rec.warna	rec.rasa	rec.aroma	rec.tekstur
Mann-Whitney U	120.000	170.000	150.000	170.000
Wilcoxon W	330.000	380.000	360.000	380.000
Z	-2.511	-.947	-1.579	-1.233
Asymp. Sig. (2-tailed)	.012	.343	.114	.218
Exact Sig. [2*(1-tailed Sig.)]	.030 <sup>a</sup>	.429 <sup>a</sup>	.183 <sup>a</sup>	.429 <sup>a</sup>

a. Not corrected for ties.



Test Statistics<sup>b</sup>

	rec.warna	rec.rasa	rec.aroma	rec.tekstur
Mann-Whitney U	120.000	170.000	150.000	170.000
Wilcoxon W	330.000	380.000	360.000	380.000
Z	-2.511	-.947	-1.579	-1.233
Asymp. Sig. (2-tailed)	.012	.343	.114	.218
Exact Sig. [2*(1-tailed Sig.)]	.030 <sup>a</sup>	.429 <sup>a</sup>	.183 <sup>a</sup>	.429 <sup>a</sup>

b. Grouping Variable: perlakuan

Ranks

	perlakuan	N	Mean Rank	Sum of Ranks
rec.warna	2	20	24.00	480.00
	4	20	17.00	340.00
	Total	40		
rec.rasa	2	20	21.50	430.00
	4	20	19.50	390.00
	Total	40		
rec.aroma	2	20	22.00	440.00
	4	20	19.00	380.00
	Total	40		
rec.tekstur	2	20	19.50	390.00
	4	20	21.50	430.00
	Total	40		

Test Statistics<sup>b</sup>

	rec.warna	rec.rasa	rec.aroma	rec.tekstur
Mann-Whitney U	130.000	180.000	170.000	180.000
Wilcoxon W	340.000	390.000	380.000	390.000
Z	-2.188	-.628	-.938	-.874
Asymp. Sig. (2-tailed)	.029	.530	.348	.382



Exact Sig. [2*(1-tailed Sig.)]	.060 <sup>a</sup>	.602 <sup>a</sup>	.429 <sup>a</sup>	.602 <sup>a</sup>
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a. Not corrected for ties.

b. Grouping Variable: perlakuan

**Ranks**

	perlakuan	N	Mean Rank	Sum of Ranks
rec.warna	3	20	23.50	470.00
	4	20	17.50	350.00
	Total	40		
rec.rasa	3	20	20.00	400.00
	4	20	21.00	420.00
	Total	40		
rec.aroma	3	20	22.00	440.00
	4	20	19.00	380.00
	Total	40		
rec.tekstur	3	20	20.00	400.00
	4	20	21.00	420.00
	Total	40		

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

	rec.warna	rec.rasa	rec.aroma	rec.tekstur
Mann-Whitney U	140.000	190.000	170.000	190.000
Wilcoxon W	350.000	400.000	380.000	400.000
Z	-1.873	-.313	-.938	-.472
Asymp. Sig. (2-tailed)	.061	.755	.348	.637
Exact Sig. [2*(1-tailed Sig.)]	.108 <sup>a</sup>	.799 <sup>a</sup>	.429 <sup>a</sup>	.799 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: perlakuan



**Ranks**

	perlakuan	N	Mean Rank	Sum of Ranks
rec.warna	1	20	21.50	430.00
	3	20	19.50	390.00
	Total	40		
rec.rasa	1	20	22.50	450.00
	3	20	18.50	370.00
	Total	40		
rec.aroma	1	20	21.50	430.00
	3	20	19.50	390.00
	Total	40		
rec.tekstur	1	20	19.50	390.00
	3	20	21.50	430.00
	Total	40		

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

	rec.warna	rec.rasa	rec.aroma	rec.tekstur
Mann-Whitney U	180.000	160.000	180.000	180.000
Wilcoxon W	390.000	370.000	390.000	390.000
Z	-.681	-1.255	-.655	-.781
Asymp. Sig. (2-tailed)	.496	.209	.513	.435
Exact Sig. [2*(1-tailed Sig.)]	.602 <sup>a</sup>	.289 <sup>a</sup>	.602 <sup>a</sup>	.602 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: perlakuan

**Ranks**

	perlakuan	N	Mean Rank	Sum of Ranks
rec.warna	2	20	21.00	420.00
	3	20	20.00	400.00



	Total	40		
rec.rasa	2	20	22.00	440.00
	3	20	19.00	380.00
	Total	40		
rec.aroma	2	20	20.50	410.00
	3	20	20.50	410.00
	Total	40		
rec.tekstur	2	20	20.00	400.00
	3	20	21.00	420.00
	Total	40		

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

	rec.warna	rec.rasa	rec.aroma	rec.tekstur
Mann-Whitney U	190.000	170.000	200.000	190.000
Wilcoxon W	400.000	380.000	410.000	400.000
Z	-.333	-.938	.000	-.411
Asymp. Sig. (2-tailed)	.739	.348	1.000	.681
Exact Sig. [2*(1-tailed Sig.)]	.799 <sup>a</sup>	.429 <sup>a</sup>	1.000 <sup>a</sup>	.799 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: perlakuan

**Ranks**

	perlakuan	N	Mean Rank	Sum of Ranks
rec.warna	1	20	21.00	420.00
	2	20	20.00	400.00
	Total	40		
rec.rasa	1	20	21.00	420.00
	2	20	20.00	400.00
	Total	40		



rec.aroma	1	20	21.50	430.00
	2	20	19.50	390.00
	Total	40		
rec.tekstur	1	20	20.00	400.00
	2	20	21.00	420.00
	Total	40		

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

	rec.warna	rec.rasa	rec.aroma	rec.tekstur
Mann-Whitney U	190.000	190.000	180.000	190.000
Wilcoxon W	400.000	400.000	390.000	400.000
Z	-.350	-.322	-.655	-.374
Asymp. Sig. (2-tailed)	.727	.747	.513	.708
Exact Sig. [2*(1-tailed Sig.)]	.799 <sup>a</sup>	.799 <sup>a</sup>	.602 <sup>a</sup>	.799 <sup>a</sup>

a. Not corrected for ties.

b. Grouping Variable: perlakuan

**Tabel Nilai p pada Uji Mann-Whitney antar Perlakuan (warna pada cookies)**

Kelompok	P0	P1	P2	P3	P4
<b>P0</b>		0.708	0.471	0.294	0.004*
<b>P1</b>	0.708		0.727	0.496	0.012*
<b>P2</b>	0.471	0.727		0.739	0.029*
<b>P3</b>	0.294	0.496	0.739		0.061*
<b>P4</b>	0.004*	0.012*	0.029*	0.061*	

Keterangan : \*terdapat perbedaan yang bermakna (p < 0,005)

(Substitusi MOCAF dan Tepung Belut)

P0 = 100% : 0% P1 = 90% : 10% P2 = 80% : 20% p3 = 70% : 30% p4 = 60% : 40%



Lampiran 13. Hasil Perhitungan Nh pada Uji Organoleptik

	p0				p1				p2			
	warna	rasa	aroma	tekstur	warna	rasa	aroma	tekstur	warna	rasa	aroma	tekstur
<b>jumlah</b>	188	171	169	187	187	177	178	186	186	175	177	189
<b>rata-rata</b>	9.4	8.55	8.45	9.35	9.35	8.85	8.9	9.3	9.3	8.75	8.85	9.45
<b>max</b>	11	10	10	11	11	10	10	11	11	10	11	11
<b>min</b>	7	6	7	7	7	7	7	7	7	6	6	7
<b>rata-rata max</b>	9.4	8.85	8.9	9.75	9.4	8.85	8.9	9.75	9.4	8.85	8.9	9.75
<b>bobot variabel</b>	1	0.966102	0.949438	0.958974	0.994681	1	1	0.953846	0.989362	0.988701	0.994382	0.969231
<b>bobot normal</b>	0.207965	0.19746	0.193585	0.196842	0.206858	0.204388	0.203895	0.195789	0.205752	0.202079	0.202749	0.198947
<b>Ne</b>	0.6	0.6375	0.483333	0.5875	0.5875	0.616667	0.633333	0.575	0.575	0.6875	0.57	0.6125
<b>Nh</b>	0.124779	0.12588	0.093566	0.115645	0.121529	0.126039	0.129133	0.112579	0.118308	0.138929	0.115567	0.121855
<b>Nh tot</b>	0.45987				0.489281				0.494659			

	p3				p4			
	warna	rasa	aroma	tekstur	warna	rasa	aroma	tekstur
<b>jumlah</b>	180	174	176	193	163	169	173	195
<b>rata-rata</b>	9	8.7	8.8	9.65	8.15	8.45	8.65	9.75
<b>max</b>	11	11	10	11	10	10	11	12
<b>min</b>	6	6	6	8	6	6	7	7
<b>rata-rata</b>	9.4	8.85	8.9	9.75	9.4	8.85	8.9	9.75
<b>max</b>								
<b>bobot variabel</b>	0.957447	0.983051	0.988764	0.989744	0.867021	0.954802	0.97191	1
<b>bobot normal</b>	0.199115	0.200924	0.201604	0.203158	0.18031	0.19515	0.198167	0.205263
<b>Ne</b>	0.6	0.54	0.7	0.55	0.5375	0.6125	0.4125	0.55
<b>Nh</b>	0.119469	0.108499	0.141123	0.111737	0.096916	0.119529	0.081744	0.112895
<b>Nh tot</b>	0.480827				0.411085			

### Lampiran 14. Dokumentasi Kegiatan

#### Pembuatan Cookies

a. Persiapan bahan



b. pengocokan bahan



b. Penambahan MOCAF



c. penambahan tepung belut



d. pencampuran



e. penggilingan adonan



f.pencetakan adonan



g. pengambilan adonan cetakan



h.penataan di Loyang kue



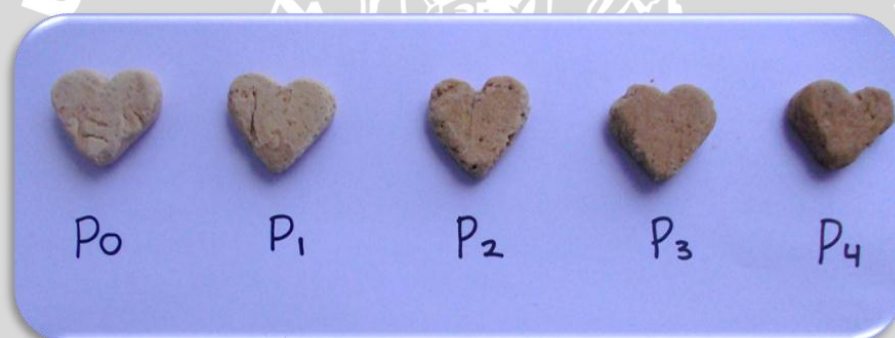
i. kue setelah dioven



Hasil Penelitian



Gambar 1. Tepung Daging Belut



Gambar 2. Cookies

### Penelitian Mikrobiologi



### Penelitian Organoleptik



### Lampiran 15. Resep Cookies MOCAF dan Tepung Belut

Bahan :

- Bahan Tepung 150 g (MOCAF dan tepung belut)
- Margarin 90 g
- telur 1 btr
- Garam  $\frac{1}{4}$  sdt
- Bubuk bawang putih  $\frac{1}{4}$  sdt

Cara Membuat :

1. Kocok margarin tambahkan telur sambil dikocok sampai tercampur merata
2. Masukkan bahan tepung sampai tercampur merata, tambahkan garam dan bubuk bawang putih
3. Cetak adonan sesuai selera lalu susun di atas loyang yang sudah diolesi margarin
4. Panggang adonan dengan oven pada suhu  $180^{\circ}\text{C}$  selama  $\pm 20$  menit (sampai matang)
5. Keluarkan kue dari oven dan siap disajikan

(Resep diadaptasi dari resep kue MOCAF, tanpa tahun)

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131

**Lampiran 16. Pernyataan Keaslian Tulisan**

**PERNYATAAN KEASLIAN TULISAN**

Saya yang bertandatangan dibawah ini :

Nama : Izzati Nur Khoiriani

NIM : 0910730056

Program Studi : Program Studi Ilmu Gizi Kesehatan

Fakultas Kedokteran Universitas Brawijaya

Menyatakan dengan sebenarnya bahwa Tugas Akhir yang saya tulis ini benar-benar hasil karya saya sendiri, bukan merupakan pengambilan tulisan atau pemikiran orang lain yang saya aku sebagai tulisan atau pikiran saya sendiri. Apabila di kemudian hari dapat dibuktikan bahwa Tugas Akhir ini adalah hasil jiplakan, maka saya bersedia menerima sanksi atas perbuatan tersebut.

Malang, 14 Juli 2013

Yang membuat pernyataan,

(Izzati Nur Khoriani)

NIM. 0910730056

