

Lampiran 1

HASIL UJI ORGANOLEPTIK

MUTU HEDONIK (WARNA)

No	F1	F2	F3
1	7.5	7.2	3.5
2	6.2	7.9	5.0
3	6.4	7.6	3.2
4	8.5	6.8	4.0
5	6.7	5.7	5.4
6	8.3	6.9	3.1
7	7.0	4.1	1.7
8	8.0	7.2	3.0
9	8.3	6.2	1.7
10	8.0	6.8	1.5
11	6.3	6.1	5.1
12	8.9	5.2	3.4
13	2.1	5.0	3.5
14	6.4	6.5	6.1
15	9.4	5.4	5.8
16	1.1	8.2	6.1
17	3.4	3.6	8.2
18	6.5	3.8	6.2
19	8.0	4.2	2.5
20	9.5	6.2	1.1
21	6.2	3.6	7.9
22	7.2	8.0	7.9
23	7.2	7.6	6.8
24	1.1	8.2	6.1
25	6.7	4.1	4.3

HASIL UJI ORGANOLEPTIK

MUTU HEDONIK (AROMA)

No	F1	F2	F3
1	4.6	7.5	5.7
2	6.9	7.0	7.7
3	6.1	8.1	5.6
4	5.8	2.1	8.0
5	6.1	5.4	5.9
6	9.2	5.4	2.5
7	7.1	7.8	7.0
8	8.1	6.0	2.5
9	6.8	4.2	5.7
10	6.9	7.0	3.2
11	7.8	6.6	4.9
12	6.6	7.5	3.9
13	7.1	5.2	6.4
14	6.9	6.9	7.0
15	9.4	5.8	9.1
16	2.7	6.5	2.4
17	8.4	7.9	6.4
18	5.0	4.5	3.3
19	2.4	7.2	8.0
20	3.0	5.6	8.5
21	7.8	3.8	4.8
22	6.8	7.2	6.4
23	7.3	7.3	6.4
24	2.7	6.5	2.4
25	5.2	4.8	4.3

HASIL UJI ORGANOLEPTIK

MUTU HEDONIK (RASA)

No	F1	F2	F3
1	3.4	3.5	2.0
2	5.0	7.9	4.5
3	5.7	8.1	7.5
4	5.1	5.5	3.9
5	5.3	6.6	5.1
6	9.1	5.4	2.4
7	4.2	5.8	5.0
8	7.7	5.0	3.5
9	5.6	3.4	4.1
10	5.3	5.6	3.2
11	7.4	6.0	4.0
12	3.8	6.2	5.8
13	2.7	4.7	5.2
14	6.1	7.0	7.1
15	5.5	5.4	5.5
16	7.3	6.7	6.3
17	8.5	8.7	5.2
18	6.0	6.0	4.5
19	5.9	5.5	7.1
20	4.7	6.9	5.9
21	7.7	3.2	5.2
22	6.0	6.5	5.9
23	6.4	7.5	6.1
24	7.3	6.7	6.3
25	4.5	5.8	4.6

HASIL UJI ORGANOLEPTIK

MUTU HEDONIK (TEKSTUR PERMUKAAN)

No	F1	F2	F3
1	4.7	3.9	1.7
2	6.8	3.8	6.0
3	6.5	7.4	6.9
4	7.5	5.2	9.0
5	5.2	5.8	2.9
6	1.9	5.8	7.4
7	6.4	4.1	8.0
8	2.2	4.2	7.7
9	7.0	6.8	3.7
10	5.0	4.2	2.7
11	5.5	6.9	3.7
12	5.7	7.4	7.1
13	6.8	6.3	4.9
14	5.5	6.0	4.4
15	4.9	4.4	4.8
16	5.5	2.1	5.3
17	7.1	3.8	4.1
18	6.1	5.9	5.3
19	5.6	4.4	4.2
20	3.8	5.3	5.8
21	3.7	3.0	4.2
22	4.6	6.2	4.3
23	6.1	6.6	6.2
24	5.5	2.1	5.3
25	4.7	5.5	4.4

HASIL UJI ORGANOLEPTIK

MUTU HEDONIK (TEKSTUR SAAT DITEKAN)

No	F1	F2	F3
1	8.0	7.6	7.5
2	6.1	6.0	6.3
3	7.7	7.4	5.6
4	3.7	6.6	7.1
5	4.8	5.6	2.8
6	3.6	4.8	7.4
7	3.8	2.8	1.7
8	4.4	2.9	6.2
9	6.6	8.0	3.0
10	3.9	3.5	6.7
11	3.4	5.3	8.0
12	4.3	2.1	7.6
13	4.6	4.5	4.8
14	5.5	6.0	4.4
15	9.6	8.2	9.6
16	5.0	7.7	3.9
17	6.6	2.2	3.2
18	5.2	3.9	6.6
19	4.8	4.5	6.0
20	5.7	5.4	8.1
21	5.5	2.1	4.8
22	4.9	5.9	3.2
23	7.9	6.6	5.3
24	5.0	8.7	3.9
25	6.1	6.5	2.1

HASIL UJI ORGANOLEPTIK

MUTU HEDONIK (TEKSTUR SAAT DIGIGIT)

No	F1	F2	F3
1	5.4	2.6	2.7
2	3.5	4.9	1.7
3	4.5	7.5	5.8
4	2.5	8.2	1.3
5	3.5	5.7	2.7
6	8.3	6.0	2.7
7	3.2	3.6	1.9
8	7.6	5.2	2.9
9	6.5	3.4	1.7
10	5.1	5.7	3.0
11	5.4	5.7	6.4
12	2.4	4.8	5.3
13	7.8	6.5	3.2
14	5.2	6.0	4.9
15	5.4	5.1	5.6
16	8.1	3.0	6.5
17	6.9	5.1	3.3
18	6.2	5.7	2.8
19	6.2	5.3	1.7
20	2.4	7.5	1.4
21	3.7	2.1	4.6
22	3.0	5.5	3.0
23	7.7	7.4	3.3
24	8.1	3.0	6.5
25	6.2	4.5	1.8

Lampiran 2

HASIL UJI ORGANOLEPTIK

DAYA TERIMA (WARNA)

No	F1	F2	F3
1	6.0	7.7	8.2
2	6.9	8.0	4.4
3	6.5	7.6	6.9
4	6.0	8.8	1.4
5	5.5	5.9	6.6
6	8.8	6.0	2.6
7	7.7	6.9	6.2
8	4.2	6.6	2.4
9	7.1	3.4	6.1
10	8.1	5.4	3.3
11	5.9	6.5	6.2
12	7.7	9.7	5.9
13	7.7	6.4	4.4
14	6.1	7.2	6.4
15	5.0	9.5	5.6
16	4.8	6.3	5.5
17	8.5	7.1	4.1
18	6.6	5.3	4.3
19	7.9	7.0	6.2
20	4.0	6.5	5.7
21	8.9	3.9	6.9
22	7.5	8.0	7.9
23	7.2	7.5	5.4
24	4.8	6.3	5.5
25	5.2	5.6	3.4

HASIL UJI ORGANOLEPTIK

DAYA TERIMA (AROMA)

No	F1	F2	F3
1	5.1	7.0	5.8
2	6.1	6.4	6.7
3	5.3	7.8	4.0
4	8.8	2.8	1.4
5	5.0	6.2	4.2
6	8.8	6.0	4.5
7	6.8	7.4	6.7
8	4.6	6.0	4.3
9	6.4	3.8	6.3
10	6.5	6.9	3.3
11	7.3	6.1	3.5
12	8.4	9.4	1.7
13	7.0	6.6	4.4
14	6.1	7.4	6.5
15	9.5	4.7	5.9
16	7.3	5.4	4.2
17	9.0	8.0	5.1
18	6.8	6.2	7.0
19	9.0	7.2	5.0
20	4.0	6.4	5.7
21	8.8	3.3	6.3
22	6.2	7.4	7.6
23	8.1	8.2	5.2
24	7.3	5.4	4.2
25	5.4	6.2	3.2

HASIL UJI ORGANOLEPTIK

DAYA TERIMA (RASA)

No	F1	F2	F3
1	6.7	3.6	2.3
2	7.2	5.7	4.7
3	6.8	8.1	1.7
4	8.9	7.1	2.0
5	5.7	6.5	5.7
6	9.4	6.2	1.5
7	7.5	8.8	5.9
8	6.2	5.0	5.0
9	5.5	4.9	3.6
10	5.0	7.3	2.9
11	6.2	7.1	5.7
12	5.2	9.2	5.9
13	7.8	6.7	3.9
14	6.8	7.5	6.7
15	9.6	4.6	5.5
16	5.3	6.5	5.5
17	8.9	8.7	5.2
18	7.9	4.6	4.6
19	6.1	6.2	2.0
20	6.5	6.8	5.9
21	8.5	3.1	5.9
22	5.6	6.9	7.5
23	7.5	8.4	4.2
24	5.3	6.5	5.5
25	5.2	4.6	3.1

HASIL UJI ORGANOLEPTIK

DAYA TERIMA (TEKSTUR)

No	F1	F2	F3
1	5.1	3.2	1.9
2	6.0	4.9	3.5
3	5.6	8.5	5.8
4	7.6	8.2	2.0
5	6.5	6.8	5.7
6	9.4	6.2	1.6
7	8.2	8.8	2.7
8	4.6	5.1	2.5
9	6.5	4.4	4.2
10	5.0	6.4	3.3
11	6.4	7.7	5.3
12	6.9	9.1	5.6
13	7.9	7.1	3.3
14	6.9	7.5	5.5
15	9.4	4.8	5.9
16	3.8	6.7	4.3
17	9.0	8.5	4.0
18	8.9	5.4	2.8
19	6.2	4.3	1.7
20	2.8	6.8	5.9
21	8.3	3.1	5.3
22	5.2	6.1	6.9
23	6.4	7.5	3.2
24	3.8	6.7	4.3
25	5.4	5.1	2.2

HASIL UJI ORGANOLEPTIK

DAYA TERIMA (OVERALL)

No	F1	F2	F3
1	5.0	3.2	6.0
2	5.7	6.5	4.0
3	6.9	9.2	2.7
4	6.8	8.2	2.6
5	6.0	6.2	5.3
6	8.5	5.8	2.9
7	8.1	8.2	4.2
8	5.0	8.0	3.1
9	6.0	4.7	4.1
10	5.1	6.3	2.4
11	6.0	6.9	5.5
12	7.0	9.4	1.5
13	7.6	6.8	3.3
14	7.2	7.8	5.5
15	9.1	4.7	4.5
16	7.4	6.8	7.5
17	9.4	8.8	5.2
18	6.8	5.0	4.2
19	6.4	5.2	2.7
20	3.2	7.3	5.5
21	8.2	2.9	5.0
22	5.7	8.2	6.5
23	7.1	7.9	5.0
24	7.4	6.8	7.5
25	6.0	6.3	3.4

Lampiran 3

HASIL OUTPUT
MUTU HEDONIK

Warna

Statistics

		Mutu Hedonik Warna F1	Mutu Hedonik Warna F2	Mutu Hedonik Warna F3
N	Valid	25	25	25
	Missing	0	0	0
Mean		6.596	6.084	4.324
Std. Deviation		2.3275	1.5337	2.2046
Minimum		1.1	3.6	.8
Maximum		9.5	8.2	8.2

ANOVA

MtWarna

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	71.014	2	35.507	8.434	.001
Within Groups	303.109	72	4.210		
Total	374.123	74			

Multiple Comparisons

Dependent Variable: Mutu Hedonik Warna

Bonferroni

(I) Formulasi Produk	(J) Formulasi Produk	Mean Difference (I- J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1 (20:80)	Formula 2 (40:60)	.5120	.5803	1.000	-.911	1.935
	Formula 3 (60:40)	2.2720*	.5803	.001	.849	3.695
Formula 2 (40:60)	Formula 1 (20:80)	-.5120	.5803	1.000	-1.935	.911
	Formula 3 (60:40)	1.7600*	.5803	.010	.337	3.183
Formula 3 (60:40)	Formula 1 (20:80)	-2.2720*	.5803	.001	-3.695	-.849
	Formula 2 (40:60)	-1.7600*	.5803	.010	-3.183	-.337

*. The mean difference is significant at the 0.05 level.

Aroma

Statistics

		Mutu Hedonik Aroma F1	Mutu Hedonik Aroma F2	Mutu Hedonik Aroma F3
N	Valid	25	25	25
	Missing	0	0	0
Mean		6.268	5.952	5.520
Std. Deviation		1.9604	1.8198	2.0359
Minimum		2.4	.8	2.4
Maximum		9.4	8.1	9.1

ANOVA

MtAroma

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	7.050	2	3.525	.936	.397
Within Groups	271.197	72	3.767		
Total	278.247	74			

Multiple Comparisons

Dependent Variable: MtAroma

Bonferroni

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1 (20:80)	Formula 2 (40:60)	.31600	.54894	1.000	-1.0295	1.6615
	Formula 3 (60:40)	.74800	.54894	.532	-.5975	2.0935
Formula 2 (40:60)	Formula 1 (20:80)	-.31600	.54894	1.000	-1.6615	1.0295
	Formula 3 (60:40)	.43200	.54894	1.000	-.9135	1.7775
Formula 3 (60:40)	Formula 1 (20:80)	-.74800	.54894	.532	-2.0935	.5975
	Formula 2 (40:60)	-.43200	.54894	1.000	-1.7775	.9135

Rasa

Statistics

		Mutu Hedonik Rasa F1	Mutu Hedonik Rasa F2	Mutu Hedonik Rasa F3
N	Valid	25	25	25
	Missing	0	0	0
Mean		5.648	5.984	4.636
Std. Deviation		1.8599	1.3843	1.8362
Minimum		.9	3.2	.5
Maximum		9.1	8.7	7.5

ANOVA

MtRasa

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	24.618	2	12.309	4.222	.018
Within Groups	209.934	72	2.916		
Total	234.551	74			

Multiple Comparisons

Dependent Variable: MtRasa

Bonferroni

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1 (20:80)	Formula 2 (40:60)	-.33600	.48297	1.000	-1.5199	.8479
	Formula 3 (60:40)	1.01200	.48297	.119	-.1719	2.1959
Formula 2 (40:60)	Formula 1 (20:80)	.33600	.48297	1.000	-.8479	1.5199
	Formula 3 (60:40)	1.34800 [*]	.48297	.020	.1641	2.5319
Formula 3 (60:40)	Formula 1 (20:80)	-1.01200	.48297	.119	-2.1959	.1719
	Formula 2 (40:60)	-1.34800 [*]	.48297	.020	-2.5319	-.1641

*. The mean difference is significant at the 0.05 level.

Tekstur

A. Permukaan

Statistics

		Tekstur Permukaan F1	Tekstur Permukaan F2	Tekstur Permukaan F3
N	Valid	25	25	25
	Missing	0	0	0
Mean		5.372	5.084	5.000
Std. Deviation		1.4013	1.5148	1.9763
Minimum		1.9	2.1	.8
Maximum		7.5	7.4	9.0

ANOVA

Tekstur Permukaan Biskuit

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.903	2	.952	.350	.706
Within Groups	195.944	72	2.721		
Total	197.847	74			

Multiple Comparisons

Dependent Variable: Tekstur Permukaan Biskuit

Bonferroni

(I) Formulasi Produk	(J) Formulasi Produk	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1 (20:80)	Formula 2 (40:60)	.2880	.4666	1.000	-.856	1.432
	Formula 3 (60:40)	.3720	.4666	1.000	-.772	1.516
Formula 2 (40:60)	Formula 1 (20:80)	-.2880	.4666	1.000	-1.432	.856
	Formula 3 (60:40)	.0840	.4666	1.000	-1.060	1.228
Formula 3 (60:40)	Formula 1 (20:80)	-.3720	.4666	1.000	-1.516	.772
	Formula 2 (40:60)	-.0840	.4666	1.000	-1.228	1.060

B. Ditekan

Statistics

		Tekstur saat ditekan F1	Tekstur saat Ditekan F2	Tekstur saat Ditekan F3
N	Valid	25	25	25
	Missing	0	0	0
Mean		5.468	5.392	5.232
Std. Deviation		1.5668	2.0166	2.3104
Minimum		3.4	2.1	.6
Maximum		9.6	8.7	9.6

ANOVA

Tekstur saat Ditekan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	.726	2	.363	.092	.912
Within Groups	284.627	72	3.953		
Total	285.353	74			

Multiple Comparisons

Dependent Variable: Tekstur saat Ditekan

Bonferroni

(I) Formulasi Produk	(J) Formulasi Produk	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1 (20:80)	Formula 2 (40:60)	.0760	.5624	1.000	-1.302	1.454
	Formula 3 (60:40)	.2360	.5624	1.000	-1.142	1.614
Formula 2 (40:60)	Formula 1 (20:80)	-.0760	.5624	1.000	-1.454	1.302
	Formula 3 (60:40)	.1600	.5624	1.000	-1.218	1.538
Formula 3 (60:40)	Formula 1 (20:80)	-.2360	.5624	1.000	-1.614	1.142
	Formula 2 (40:60)	-.1600	.5624	1.000	-1.538	1.218

C. Digigit

Statistics

		Tekstur saat digigit F1	Tekstur saat Digigit F2	Tekstur saat Digigit F3
N	Valid	25	25	25
	Missing	0	0	0
Mean		5.392	5.200	2.868
Std. Deviation		1.9613	1.5956	1.7487
Minimum		2.4	2.1	.3
Maximum		8.3	8.2	6.5

ANOVA

Tekstur sat Digigit

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	98.714	2	49.357	15.668	.000
Within Groups	226.813	72	3.150		
Total	325.527	74			

Multiple Comparisons

Dependent Variable: Tekstur sat Digigit

Bonferroni

(I) Formulasi Produk	(J) Formulasi Produk	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1 (20:80)	Formula 2 (40:60)	.1920	.5020	1.000	-1.039	1.423
	Formula 3 (60:40)	2.5240*	.5020	.000	1.293	3.755
Formula 2 (40:60)	Formula 1 (20:80)	-.1920	.5020	1.000	-1.423	1.039
	Formula 3 (60:40)	2.3320*	.5020	.000	1.101	3.563
Formula 3 (60:40)	Formula 1 (20:80)	-2.5240*	.5020	.000	-3.755	-1.293
	Formula 2 (40:60)	-2.3320*	.5020	.000	-3.563	-1.101

*. The mean difference is significant at the 0.05 level.

DAYA TERIMA

Warna

Statistics

		Daya Terima Warna F1	Daya Terima Warna F2	Daya Terima Warna F3
N	Valid	25	25	25
	Missing	0	0	0
Mean		6.584	6.764	4.660
Std. Deviation		1.4291	1.4824	2.2481
Minimum		4.0	3.4	.6
Maximum		8.9	9.7	8.2

ANOVA

Daya Terima Warna

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	68.008	2	34.004	10.976	.000
Within Groups	223.051	72	3.098		
Total	291.059	74			

Multiple Comparisons

Dependent Variable: Daya Terima Warna

Bonferroni

(I) Formulasi Produk	(J) Formulasi Produk	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1 (20:80)	Formula 2 (40:60)	-.1800	.4978	1.000	-1.400	1.040
	Formula 3 (60:40)	1.9240*	.4978	.001	.704	3.144
Formula 2 (40:60)	Formula 1 (20:80)	.1800	.4978	1.000	-1.040	1.400
	Formula 3 (60:40)	2.1040*	.4978	.000	.884	3.324
Formula 3 (60:40)	Formula 1 (20:80)	-1.9240*	.4978	.001	-3.144	-.704
	Formula 2 (40:60)	-2.1040*	.4978	.000	-3.324	-.884

*. The mean difference is significant at the 0.05 level.

Aroma

Statistics

		Daya Terima Aroma F1	Daya Terima Aroma F2	Daya Terima Aroma F3
N	Valid	25	25	25
	Missing	0	0	0
Mean		6.744	6.328	4.708
Std. Deviation		2.0468	1.5230	1.7828
Minimum		.1	2.8	.7
Maximum		9.5	9.4	7.6

ANOVA

Daya Terima Aroma

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	66.696	2	33.348	12.634	.000
Within Groups	190.050	72	2.640		
Total	256.747	74			

Multiple Comparisons

Dependent Variable: Daya Terima Aroma

Bonferroni

(I) Formulasi Produk	(J) Formulasi Produk	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1 (20:80)	Formula 2 (40:60)	.6160	.4595	.553	-.510	1.742
	Formula 3 (60:40)	2.2360*	.4595	.000	1.110	3.362
Formula 2 (40:60)	Formula 1 (20:80)	-.6160	.4595	.553	-1.742	.510
	Formula 3 (60:40)	1.6200*	.4595	.002	.494	2.746
Formula 3 (60:40)	Formula 1 (20:80)	-2.2360*	.4595	.000	-3.362	-1.110
	Formula 2 (40:60)	-1.6200*	.4595	.002	-2.746	-.494

*. The mean difference is significant at the 0.05 level.

Rasa

Statistics

		Daya Terima Rasa F1	Daya Terima Rasa F2	Daya Terima Rasa F3
N	Valid	25	25	25
	Missing	0	0	0
Mean		6.852	6.424	3.896
Std. Deviation		1.4157	1.6141	2.0020
Minimum		5.0	3.1	.5
Maximum		9.6	9.2	7.5

ANOVA

Daya Terima Rasa

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	127.599	2	63.800	22.211	.000
Within Groups	206.818	72	2.872		
Total	334.417	74			

Multiple Comparisons

Dependent Variable: Daya Terima Rasa

Bonferroni

(I) Formulasi Produk	(J) Formulasi Produk	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1 (20:80)	Formula 2 (40:60)	.4280	.4794	1.000	-.747	1.603
	Formula 3 (60:40)	2.9560 [*]	.4794	.000	1.781	4.131
Formula 2 (40:60)	Formula 1 (20:80)	-.4280	.4794	1.000	-1.603	.747
	Formula 3 (60:40)	2.5280 [*]	.4794	.000	1.353	3.703
Formula 3 (60:40)	Formula 1 (20:80)	-2.9560 [*]	.4794	.000	-4.131	-1.781
	Formula 2 (40:60)	-2.5280 [*]	.4794	.000	-3.703	-1.353

*. The mean difference is significant at the 0.05 level.

Tekstur

Statistics

		Daya Terima Tekstur F1	Daya Terima Tekstur F2	Daya Terima Tekstur F3
N	Valid	25	25	25
	Missing	0	0	0
Mean		6.472	6.356	2.976
Std. Deviation		1.8096	1.6958	1.7548
Minimum		2.8	3.1	.3
Maximum		9.4	9.1	6.9

ANOVA

Daya Terima Tekstur

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	197.166	2	98.583	32.042	.000
Within Groups	221.518	72	3.077		
Total	418.683	74			

Multiple Comparisons

Dependent Variable: Daya Terima Tekstur

Bonferroni

(I) Formulasi Produk	(J) Formulasi Produk	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1 (20:80)	Formula 2 (40:60)	.1160	.4961	1.000	-1.100	1.332
	Formula 3 (60:40)	3.4960*	.4961	.000	2.280	4.712
Formula 2 (40:60)	Formula 1 (20:80)	-.1160	.4961	1.000	-1.332	1.100
	Formula 3 (60:40)	3.3800*	.4961	.000	2.164	4.596
Formula 3 (60:40)	Formula 1 (20:80)	-3.4960*	.4961	.000	-4.712	-2.280
	Formula 2 (40:60)	-3.3800*	.4961	.000	-4.596	-2.164

*. The mean difference is significant at the 0.05 level.

Overall

Statistics

		Overall F1	Overall F2	Overall F3
N	Valid	25	25	25
	Missing	0	0	0
Mean		6.704	6.684	4.204
Std. Deviation		1.4067	1.7165	1.7434
Minimum		3.2	2.9	.5
Maximum		9.4	9.4	7.5

ANOVA

Nilai Keseluruhan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	103.340	2	51.670	19.462	.000
Within Groups	191.153	72	2.655		
Total	294.493	74			

Multiple Comparisons

Dependent Variable: Nilai Keseluruhan

Bonferroni

(I) Formulasi Produk	(J) Formulasi Produk	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1 (20:80)	Formula 2 (40:60)	.0200	.4609	1.000	-1.110	1.150
	Formula 3 (60:40)	2.5000*	.4609	.000	1.370	3.630
Formula 2 (40:60)	Formula 1 (20:80)	-.0200	.4609	1.000	-1.150	1.110
	Formula 3 (60:40)	2.4800*	.4609	.000	1.350	3.610
Formula 3 (60:40)	Formula 1 (20:80)	-2.5000*	.4609	.000	-3.630	-1.370
	Formula 2 (40:60)	-2.4800*	.4609	.000	-3.610	-1.350

*. The mean difference is significant at the 0.05 level.

NILAI GIZI

Kadar air

Statistics

		Kadar_AirF1	Kadar_AirF2	Kadar_AirF3
N	Valid	2	2	2
	Missing	0	0	0
Mean		6.449250	7.816650	13.413900
Std. Deviation		.1166019	.0338704	.0964494

Kadar abu

Statistics

		Kadar_AbuF1	Kadar_AbuF2	Kadar_AbuF3
N	Valid	2	2	2
	Missing	0	0	0
Mean		2.152650	2.071950	2.159900
Std. Deviation		.0557907	.0147785	.0151321

Kadar protein

Statistics

		Kadar_ProteinF 1	Kadar_ProteinF 2	Kadar_ProteinF 3
N	Valid	2	2	2
	Missing	0	0	0
Mean		7.891750	8.240250	8.967100
Std. Deviation		.0108187	.0655488	.0077782

Kadar lemak

Statistics

		Kadar_LemakF 1	Kadar_LemakF 2	Kadar_LemakF 3
N	Valid	2	2	2
	Missing	0	0	0
Mean		16.830700	13.096950	10.252050
Std. Deviation		.0946109	.0045962	.0184555

Kadar serat

Statistics

	Kadar_SeratF1	Kadar_SeratF2	Kadar_SeratF3
N	Valid	2	2
	Missing	0	0
Mean	1.919000	2.818050	3.204300
Std. Deviation	.0627911	.0159099	.0104652

Kadar Karbohidrat

Statistics

	Kadar_KHF1	Kadar_KHF2	Kadar_KHF3
N	Valid	2	2
	Missing	0	0
Mean	64.606600	65.956200	62.002700
Std. Deviation	.0824487	.0350725	.1482096

Kadar betakaroten

Statistics

	BTkaroten_F1	BTkaroten_F2	BTkaroten_F3
N	Valid	2	2
	Missing	0	0
Mean	2.7200	1.4400	1.7500
Std. Deviation	.01414	.02828	.00707

Anova Nilai Gizi

ANOVA

		Sum of Squares	df	Mean Square	F	Sig.
Kadar_air	Between Groups	54.470	2	27.235	3397.920	.000
	Within Groups	.024	3	.008		
	Total	54.494	5			
Kadar_abu	Between Groups	.010	2	.005	4.017	.142
	Within Groups	.004	3	.001		
	Total	.013	5			
Kadar_protein	Between Groups	1.204	2	.602	403.680	.000
	Within Groups	.004	3	.001		
	Total	1.209	5			
Kadar_lemak	Between Groups	43.542	2	21.771	7013.136	.000
	Within Groups	.009	3	.003		
	Total	43.551	5			
Kadar_serat	Between Groups	1.740	2	.870	606.099	.000
	Within Groups	.004	3	.001		
	Total	1.744	5			
Kadar_KH	Between Groups	16.155	2	8.077	807.892	.000
	Within Groups	.030	3	.010		
	Total	16.185	5			

ANOVA

Kadar_BTkaroten

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.792	2	.896	2560.333	.000
Within Groups	.001	3	.000		
Total	1.793	5			

Multiple Comparisons

Bonferroni

Dependent Variable	(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
						Lower Bound	Upper Bound
Kadar_air	Formula 1	Formula 2	-1.3674000*	.0895278	.002	-1.802206	-.932594
		Formula 3	-6.9646500*	.0895278	.000	-7.399456	-6.529844
	Formula 2	Formula 1	1.3674000*	.0895278	.002	.932594	1.802206
		Formula 3	-5.5972500*	.0895278	.000	-6.032056	-5.162444
	Formula 3	Formula 1	6.9646500*	.0895278	.000	6.529844	7.399456
		Formula 2	5.5972500*	.0895278	.000	5.162444	6.032056
Kadar_abu	Formula 1	Formula 2	.0807000	.0344480	.303	-.086602	.248002
		Formula 3	-.0072500	.0344480	1.000	-.174552	.160052
	Formula 2	Formula 1	-.0807000	.0344480	.303	-.248002	.086602
		Formula 3	-.0879500	.0344480	.251	-.255252	.079352
	Formula 3	Formula 1	.0072500	.0344480	1.000	-.160052	.174552
		Formula 2	.0879500	.0344480	.251	-.079352	.255252
Kadar_protein	Formula 1	Formula 2	-.3485000*	.0386186	.009	-.536057	-.160943
		Formula 3	-1.0753500*	.0386186	.000	-1.262907	-.887793
	Formula 2	Formula 1	.3485000*	.0386186	.009	.160943	.536057
		Formula 3	-.7268500*	.0386186	.001	-.914407	-.539293
	Formula 3	Formula 1	1.0753500*	.0386186	.000	.887793	1.262907
		Formula 2	.7268500*	.0386186	.001	.539293	.914407
Kadar_lemak	Formula 1	Formula 2	3.7337500*	.0557164	.000	3.463155	4.004345
		Formula 3	6.5786500*	.0557164	.000	6.308055	6.849245
	Formula 2	Formula 1	-3.7337500*	.0557164	.000	-4.004345	-3.463155
		Formula 3	2.8449000*	.0557164	.000	2.574305	3.115495
	Formula 3	Formula 1	-6.5786500*	.0557164	.000	-6.849245	-6.308055
		Formula 2	-2.8449000*	.0557164	.000	-3.115495	-2.574305
Kadar_serat	Formula 1	Formula 2	-.8990500*	.0378830	.000	-1.083035	-.715065
		Formula 3	-1.2853000*	.0378830	.000	-1.469285	-1.101315
	Formula 2	Formula 1	.8990500*	.0378830	.000	.715065	1.083035
		Formula 3	-.3862500*	.0378830	.006	-.570235	-.202265
	Formula 3	Formula 1	1.2853000*	.0378830	.000	1.101315	1.469285
		Formula 2	.3862500*	.0378830	.006	.202265	.570235
Kadar_KH	Formula 1	Formula 2	-1.3496000*	.0999899	.003	-1.835217	-.863983
		Formula 3	2.6039000*	.0999899	.000	2.118283	3.089517
	Formula 2	Formula 1	1.3496000*	.0999899	.003	.863983	1.835217
		Formula 3	3.9535000*	.0999899	.000	3.467883	4.439117
	Formula 3	Formula 1	-2.6039000*	.0999899	.000	-3.089517	-2.118283

Formula 2	-3.953500*	.0999899	.000	-4.439117	-3.467883
-----------	------------	----------	------	-----------	-----------

*. The mean difference is significant at the 0.05 level.

Multiple Comparisons

Dependent Variable: Kadar_BTkaroten

Bonferroni

(I) Formula	(J) Formula	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
Formula 1	Formula 2	1.29000*	.01871	.000	1.1991	1.3809
	Formula 3	.95500*	.01871	.000	.8641	1.0459
Formula 2	Formula 1	-1.29000*	.01871	.000	-1.3809	-1.1991
	Formula 3	-.33500*	.01871	.001	-.4259	-.2441
Formula 3	Formula 1	-.95500*	.01871	.000	-1.0459	-.8641
	Formula 2	.33500*	.01871	.001	.2441	.4259

*. The mean difference is significant at the 0.05 level.

NASKAH PENJELASAN PENELITIAN



**PENGEMBANGAN BISKUIT MP-ASI DENGAN BAHAN DASAR BUAH
ALKESA
(*Pouteria campechiana (Kunth) Baehni*) UNTUK ANAK USIA 6-24 BULAN**

Penelitian ini berjudul “Pengembangan Biskuit MP-ASI Dengan Bahan Dasar Buah Alkesa (*Pouteria campechiana (Kunth) Baehni*) Untuk Anak Usia 6-24 Bulan”. Desain penelitian yang digunakan yaitu studi eksperimental dengan 3 perlakuan pada buah alkesa yaitu 20g, 40g, dan 60g. *biskuit* MP-ASI ini akan diuji organoleptik kepada 30 orang panelis agak terlatih.

Adapun sasaran penelitian ini adalah mahasiswa Program Studi Gizi yang bersedia menjadi panelis dan telah terpilih sesuai kriteria, yaitu tidak dalam keadaan lapar atau kenyang (1 jam sebelum makan atau 2 jam sesudah makan), sehat (tidak dalam keadaan sakit flu, panas dalam/sariawan dan demam), dilarang berkomunikasi dengan panelis lain di ruang uji organoleptik dan bersedia meluangkan waktu untuk melakukan uji organoleptik hingga selesai.

Pemberian biskuit MP-ASI kepada panelis akan dilakukan selama 1 hari yang sama. Penilaian dilaksanakan dengan cara, panelis akan disajikan 3 macam biskuit MP-ASI dengan kode yang berbeda dan 1 gelas air minum kemasan. Sebelum panelis mencicipi masing-masing biskuit, panelis diberikan waktu untuk minum atau berkumur menggunakan air minum yang telah disediakan dan istirahat sebentar sebelum mencicipi biskuit selanjutnya. Setiap pergantian mencicip biskuit selanjutnya meminum kembali air mineral.

Biskuit MP-ASI ini memiliki berat sekitar 5 gram tiap kepingnya. Panelis tidak harus menghabiskan semua biskuit, cukup sampai sifat organoleptik biskuit dapat digambarkan. Panelis kemudian memberikan penilaian terhadap 3 macam biskuit sesuai dengan tingkat kesukaan panelis meliputi warna, rasa, aroma, dan tekstur. Masing-masing diberikan waktu 3 menit untuk menilai tingkat kesukaan biskuit yang disajikan dengan memberikan sebuah titik tebal (•) diantara garis VAS (Visual Analog Scale) yang tersedia sesuai dengan penilaian, sehingga total waktu yang diberikan adalah 10 menit.

Manfaat dari penelitian ini yaitu sebagai camilan sehat yang memiliki kandungan nutrisi seperti energi, karbohidrat, dan vitamin dan dapat menambah informasi mengenai pangan yang beraturan dasar buah alkesa. Produk biskuit MP-ASI ini aman dikonsumsi karena bahan yang digunakan yaitu buah alkesa, tepung terigu, gula, mentega, butter, kuning telur, tepung susu skim, dan baking powder tidak terdapat kandungan kimia yang dapat menimbulkan resiko kesehatan bagi tubuh.

Partisipasi Sdr/Sdri bersifat sukarela tanpa adanya paksaan dan bila tidak berkenan dapat menolak, atau sewaktu-waktu dapat mengundurkan diri tanpa sanksi apapun. Semua informasi dan hasil penilaian yang telah dilakukan Sdr/Sdri akan dijaga kerahasiaannya. Semua data tidak akan dihubungkan dengan identitas Sdr/Sdri.

Apabila Sdr/Sdri memerlukan penjelasan lebih lanjut mengenai ini, dapat menghubungi peneliti utama a.n Gumiwang Inten Sosoca di Jl. H.Sanusi Taming No.70, Kel Duri Kapa, Kec. Kebon Jeruk, Jakarta Barat. Hp: 081214591894, atau email gumiwangis@gmail.com

PERSETUJUAN SETELAH PENJELASAN / PSP
(INFORMED CONSENT)

Saya telah mendapatkan penjelasan secara rinci dan mengerti mengenai hal yang berkaitan dengan penelitian yang dilaksanakan oleh mahasiswa program studi Ilmu Gizi di Universitas Esa Unggul. Untuk itu, saya menyatakan kesediaan berpartisipasi pada penelitian tersebut secara sukarela tanpa paksaan. Bila saya ingin, saya dapat mengundurkan diri sewaktu-waktu tanpa sanksi apapun.

Nama Subyek	Tanggal/Bulan/Tahun	Tanda Tangan
Nama Saksi	Tanggal/Bulan/Tahun	Tanda Tangan

FORMULIR UJI ORGANOLEPTIK
UJI MUTU HEDONIK

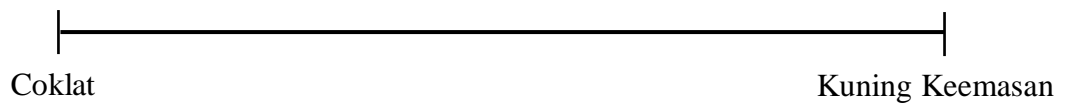
Nama Panelis :

Hari/tanggal :

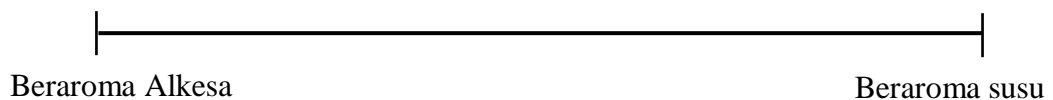
KODE PRODUK :

Dihadapan saudara disajikan sebuah produk biskuit MP-ASI. Anda diminta memberikan penilaian terhadap produk makanan tersebut. Penilaiannya dengan memberikan sebuah titik tebal (•) diantara garis VAS (Visual Analog Scale) yang tersedia sesuai dengan penilaian saudara.

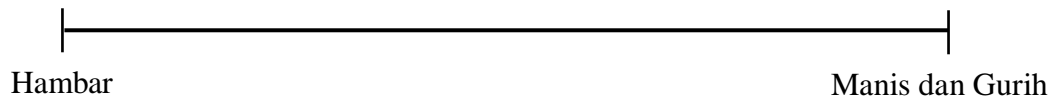
- Warna



- Aroma

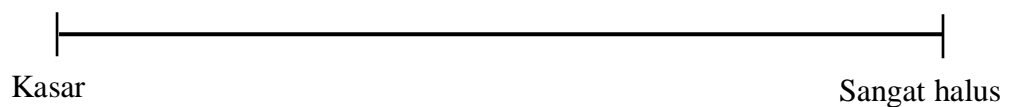


- Rasa

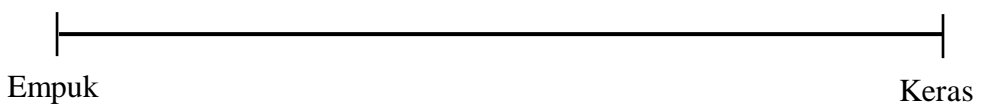


- Tekstur

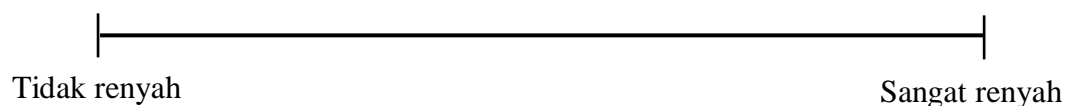
- Permukaan



- Ditekan



- Digigit



Kritik dan Saran:

FORMULIR UJI ORGANOLEPTIK
DAYA TERIMA

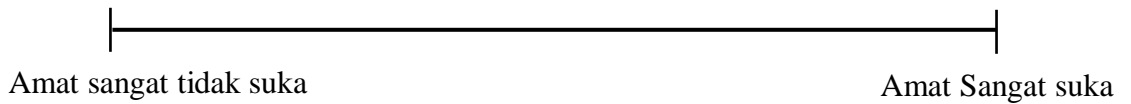
Nama Panelis :

Hari/tanggal :

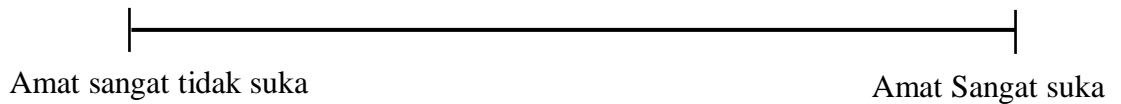
KODE PRODUK :

Dihadapan saudara disajikan sebuah produk biskuit MP-ASI. Anda diminta memberikan penilaian terhadap produk makanan tersebut. Penilaiannya dengan memberikan sebuah titik tebal (•) diantara garis VAS (Visual Analog Scale) yang tersedia sesuai dengan penilaian saudara.

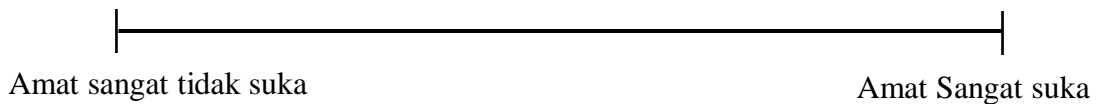
- Warna



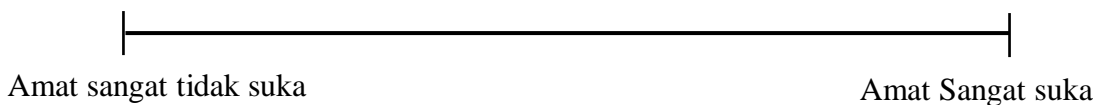
- Aroma



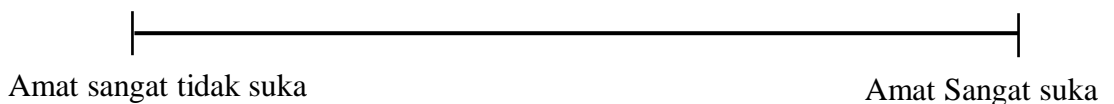
- Rasa



- Tekstur




- *Overall*




Kritik dan Saran:

.....
.....
.....

Lampiran 5



KEMENTERIAN RISET TEKNOLOGI DAN PENDIDIKAN TINGGI
POLITEKNIK NEGERI LAMPUNG
LABORATORIUM TEKNOLOGI HASIL PERTANIAN
Jl. Soekarno-Hatta No.10 Rajabasa - Bandar Lampung Telp. 0721 703995



Data Analisis

Dari : Sdr. Gumiwang (Mahasiswa Universitas Esa Unggul - Jakarta)
 Sampel : Biscuit Buah Alkesah
 Analisis : Proksimat dan ALT
 Tanggal : 14 Agustus 2017

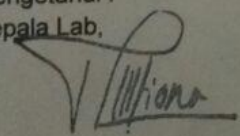
Ulangan I

No	Kode Sampel	Air	Abu	Protein	Lemak	Serat Ksr.	Karbohidrat
		(%)					
1	F1	6.3668	2.1132	7.8994	16.8976	1.8746	64.8483
2	F2	7.7927	2.0824	8.2866	13.1002	2.8068	65.9314
3	F3	13.3457	2.1492	8.9616	10.2390	3.1969	62.1075


Ulangan II

No	Kode Sampel	Air	Abu	Protein	Lemak	Serat Ksr.	Karbohidrat
		(%)					
1	F1	6.5317	2.1921	7.8841	16.7638	1.9634	64.6649
2	F2	7.8406	2.0615	8.1939	13.0937	2.8293	65.9810
3	F3	13.4821	2.1706	8.9726	10.2651	3.2117	61.8979

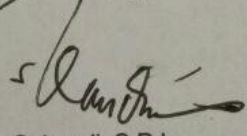
Mengetahui :
Kepala Lab,




Surfiana, S.P., M.Si.
NIP 19680113 199402 2001



B. Lampung, 18 Agustus 2017
PLP Penguji,



Subandi, S.Pd.
NIP 19660623 198910 1 001



QEC26

Lampiran 6

