

## **LAMPIRAN**

Lampiran 1. Perhitungan Formulasi *Snack bar* dengan Penambahan Tepung Biji Alpukat

A1 (90 : 10)

$$\begin{aligned} \text{TBM} &= \frac{60}{100} \times 90 = 54 \longrightarrow \frac{54}{100} \times 100 = 54 \text{ gram} \\ \text{KM} &= \frac{40}{100} \times 90 = 36 \longrightarrow \frac{36}{100} \times 100 = 36 \text{ gram} \\ \text{TBA} &= \frac{10}{100} \times 100 = 10 \text{ gram} \end{aligned}$$

A2 (85 : 15)

$$\begin{aligned} \text{TBM} &= \frac{60}{100} \times 85 = 51 \longrightarrow \frac{51}{100} \times 100 = 51 \text{ gram} \\ \text{KM} &= \frac{40}{100} \times 85 = 34 \longrightarrow \frac{34}{100} \times 100 = 34 \text{ gram} \\ \text{TBA} &= \frac{15}{100} \times 100 = 15 \text{ gram} \end{aligned}$$

A3 (80 : 20)

$$\begin{aligned} \text{TBM} &= \frac{60}{100} \times 80 = 48 \longrightarrow \frac{48}{100} \times 100 = 48 \text{ gram} \\ \text{KM} &= \frac{40}{100} \times 80 = 32 \longrightarrow \frac{32}{100} \times 100 = 32 \text{ gram} \\ \text{TBA} &= \frac{20}{100} \times 100 = 20 \text{ gram} \end{aligned}$$

A4 (75 : 25)

$$\begin{aligned} \text{TBM} &= \frac{60}{100} \times 75 = 45 \longrightarrow \frac{45}{100} \times 100 = 45 \text{ gram} \\ \text{KM} &= \frac{40}{100} \times 75 = 30 \longrightarrow \frac{30}{100} \times 100 = 30 \text{ gram} \\ \text{TBA} &= \frac{25}{100} \times 100 = 25 \text{ gram} \end{aligned}$$

A5 (70 : 30)

$$\begin{aligned} \text{TBM} &= \frac{60}{100} \times 70 = 42 \longrightarrow \frac{42}{100} \times 100 = 42 \text{ gram} \\ \text{KM} &= \frac{40}{100} \times 70 = 28 \longrightarrow \frac{28}{100} \times 100 = 28 \text{ gram} \\ \text{TBA} &= \frac{30}{100} \times 100 = 30 \text{ gram} \end{aligned}$$

Keterangan : TBM = Tepung Beras Merah  
KM = Kacang Merah  
TBA = Tepung Biji Alpukat

Lampiran 2. Hasil Uji Kadar Protein dan Data SPSS Kadar Protein *Snack bar*

**Tests of Between-Subjects Effects**

Dependent Variable: Protein

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	73.657 <sup>a</sup>	4	18.414	366.013	.000
Intercept	1459.506	1	1459.506	29010.249	.000
Perlakuan	73.657	4	18.414	366.013	.000
Error	.252	5	.050		
Total	1533.414	10			
Corrected Total	73.908	9			

a. R Squared = ,997 (Adjusted R Squared = ,994)

b. Duncan

**Protein**

Duncan<sup>a,b</sup>

Perlakuan	N	Subset				
		1	2	3	4	5
Penambahan tepung biji alpukat 30%	2	8.1500				
Penambahan tepung biji alpukat 25%	2		9.8750			
Penambahan tepung biji alpukat 20%	2			12.9650		
Penambahan tepung biji alpukat 15%	2				13.7250	
Penambahan tepung biji alpukat 10%	2					15.6900
Sig.		1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,050.

a. Uses Harmonic Mean Sample Size = 2,000.

b. Alpha = ,05.

Lampiran 3. Hasil Uji Kadar Serat dan Data SPSS Kadar Serat Kasar *Snack bar*

**Tests of Between-Subjects Effects**

Dependent Variable: Serat Kasar

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	105.266 <sup>a</sup>	4	26.316	170.003	.000
Intercept	2197.510	1	2197.510	14195.799	.000
Perlakuan	105.266	4	26.316	170.003	.000
Error	.774	5	.155		
Total	2303.550	10			
Corrected Total	106.040	9			

a. R Squared = ,993 (Adjusted R Squared = ,987)

b. Duncan

**Serat\_Kasar**

Duncan<sup>a,b</sup>

Perlakuan	N	Subset				
		1	2	3	4	5
Penambahan tepung biji alpukat 10%	2	10.1750				
Penambahan tepung biji alpukat 15%	2		12.6550			
Penambahan tepung biji alpukat 20%	2			15.1950		
Penambahan tepung biji alpukat 25%	2				16.4050	
Penambahan tepung biji alpukat 30%	2					19.6900
Sig.		1.000	1.000	1.000	1.000	1.000

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = ,155.

a. Uses Harmonic Mean Sample Size = 2,000.

b. Alpha = ,05.

Lampiran 4. Hasil Uji Nilai Kalori dan Data SPSS Nilai Kalori *Snack bar*

**Tests of Between-Subjects Effects**

Dependent Variable: Nilai\_Kalori

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	290.258 <sup>a</sup>	4	72.565	6.540	.032
Intercept	2030493.721	1	2030493.721	183012.108	.000
Perlakuan	290.258	4	72.565	6.540	.032
Error	55.474	5	11.095		
Total	2030839.453	10			
Corrected Total	345.732	9			

a. R Squared = ,840 (Adjusted R Squared = ,711)

b. Duncan

**Nilai\_Kalori**

Duncan<sup>a,b</sup>

Perlakuan	N	Subset	
		1	2
Penambahan tepung biji alpukat 10%	2	441.0850	
Penambahan tepung biji alpukat 15%	2		449.7900
Penambahan tepung biji alpukat 20%	2		450.6300
Penambahan tepung biji alpukat 25%	2		455.3100
Penambahan tepung biji alpukat 30%	2		456.2350
Sig.		1.000	.122

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 11,095.

a. Uses Harmonic Mean Sample Size = 2,000.

b. Alpha = ,05.

Lampiran 5. Lembar Penilaian Uji Hedonik

**Uji Hedonik**

Nama : \_\_\_\_\_ Hari/Tanggal : \_\_\_\_\_

**Produk : *Snack Bar* dengan Penambahan Tepung Biji Alpukat**

Intruksi :

Berikan penilaian intensitas karakteristik berdasarkan parameter warna, rasa, aroma, tekstur dan *overall* masing-masing sampel dengan memberikan tanda garis vertikal atau tanda silang pada garis horizontal. Sebelum mencicipi produk netralkan terlebih dahulu dengan meminum air putih yang telah disediakan.

**Kode sampel :**

<p>Warna</p> <p>0  -----  10</p> <p>Sangat tidak suka Sangat suka</p>
<p>Rasa</p> <p>0  -----  10</p> <p>Sangat tidak suka Sangat suka</p>
<p>Aroma</p> <p>0  -----  10</p> <p>Sangat tidak suka Sangat suka</p>
<p>Tekstur</p> <p>0  -----  10</p> <p>Sangat tidak suka Sangat suka</p>
<p><i>Overall</i></p> <p>0  -----  10</p> <p>Sangat tidak suka Sangat suka</p>

**Komentar :**

Lampiran 6. Hasil Data Uji Hedonik *Snack bar*

Panelis	Warna			Rasa			Aroma			Tekstur			Overall		
	A1	A2	A3	A1	A2	A3	A1	A2	A3	A1	A2	A3	A1	A2	A3
1	6,4	8,4	7,4	9	8,4	3,2	8,1	8,4	2,4	8,4	1,5	8,4	7,4	8,2	3
2	4	5,1	3,3	4,7	5	4	5,1	4,2	2	3	2,3	2,4	4,2	5	3,4
3	4,2	4,3	6	5,4	6	4,1	6,1	6,1	4,1	4,1	6,1	5	5,1	6,2	4,2
4	6,4	8,4	7	3,3	6,3	5	7,5	7,5	8,5	2,5	4,2	7,3	4	7,5	7
5	4,7	4,5	5,1	3,7	3,6	3,5	6,1	3,3	6,3	6,5	3,2	6,5	5,5	4,3	4,5
6	5,3	3	4,5	5,3	6,5	3	7	5,3	8,3	4,4	4,3	7,3	5,1	6,1	4,6
7	6,1	7	7,1	3,5	3,5	3,6	5	6,2	7,3	4	4,5	5,6	5,1	6,1	4,5
8	7,2	7,4	7,5	5,4	7	8	6,5	6,4	9	5,6	5,6	5,3	5,6	6,3	6,6
9	7,5	5	6,5	7,5	8,2	4,6	6,4	9,4	7,1	3,3	5,5	5,5	6,3	7,3	4,6
10	6,3	7,05	5,4	4,5	4,05	3,3	5,1	6,5	7,05	2,5	3	2,2	5,2	4,3	4,5
11	6,6	7	7	5	6,5	8	7	6,4	8	6	8	7	7,5	7,5	7,1
12	7	7,5	6,5	4	4,1	4,2	5,6	5,6	6,6	2,7	3,3	5,1	5,2	5,2	5
13	9	8,2	8,6	8	7,6	8,1	8,1	7,5	9,1	9,8	9,1	9	8	7,5	8
14	7	5,4	9,1	5,3	7,4	7,4	7,4	6,7	6,5	8,4	6,2	7,4	7,4	9,5	7,3
15	8,6	7,4	8,5	9,6	8	7,2	9,1	8,6	6,3	6,4	6	8	9,2	8,4	6,5
16	9,5	9,6	9,1	9	6,5	3,3	9,8	5,6	9,8	6,3	4,3	5,2	9,8	5,6	7,6
17	9	9,05	9,1	8,7	9	9	9	6,6	8,8	8,1	8,6	7,3	8	8,2	9
18	7,2	7,1	6,5	6,7	5,3	7,41	7,2	7,41	7,7	7,6	8,6	6,6	7,65	7	9
19	6,5	6,5	7,1	7,1	5,5	6	8,2	5,5	7,3	5,4	4,5	4,2	6,6	5	5,5
20	6,9	6,1	7	4,3	4,1	6,1	7,2	3,5	6,6	6,2	5,3	6	7,3	5,4	6
21	3,6	5,35	7,1	6,2	7,3	7,7	8	7,7	7,6	7,6	3	7,5	6,35	7,7	6,4
22	6,2	7	3,9	6,4	5,9	5,3	6,2	4,6	6,2	3,2	5	3,2	5,9	4	6,1
23	9,1	9,6	9,1	9,4	8,5	9,4	8,1	9,8	10	8,4	9,2	8	9,1	9,1	9,3
24	2,1	4,4	7,1	5,5	4,2	5,1	3,6	7,3	6,2	4	7,5	4,6	5,9	4	6
25	7,8	7	7,6	7,2	8,1	5	8	8	8	6,1	5,2	6,1	7	7,4	7,1
26	7,3	8	8,1	8,4	8,2	8,05	7,7	8	8,1	7	8	8	7,3	7,6	8
27	6,4	4,3	8,6	4,3	1,6	1	8	7,4	7	6	3,8	7	6,95	5,9	4,6
28	7,5	9,3	5,1	8	5,71	8,9	7,6	8,3	1,7	8,7	9,35	8,15	7,4	7,2	8,25
29	8	7,3	8	7,9	7,6	6,1	7,15	7,5	4,1	3	5	8,2	6	7,1	6
30	7,65	7,2	7,7	9,2	8,5	6	7,9	7,75	5,3	9,5	6,3	8,1	9,3	8,65	6,5
<b>Rata-rata</b>	<b>6,70</b>	<b>6,78</b>	<b>7,02</b>	<b>6,42</b>	<b>6,27</b>	<b>5,72</b>	<b>7,13</b>	<b>6,87</b>	<b>6,67</b>	<b>5,82</b>	<b>5,48</b>	<b>6,34</b>	<b>6,71</b>	<b>6,66</b>	<b>6,21</b>

Lampiran 7. Data SPSS Hedonik Warna *Snack bar*

**Tests of Between-Subjects Effects**

Dependent Variable: Warna

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	1.645 <sup>a</sup>	2	.823	.297	.744
Intercept	4203.867	1	4203.867	1516.963	.000
Konsentrasi_Tepung_Biji_Alpukat	1.645	2	.823	.297	.744
Error	241.098	87	2.771		
Total	4446.610	90			
Corrected Total	242.743	89			

a. R Squared = ,007 (Adjusted R Squared = -,016)

**Warna**

Duncan<sup>a,b</sup>

Konsentrasi_Tepung_Biji_Alpukat	N	Subset 1
Penambahan Tepung Biji Alpukat 10%	30	6.7017
Penambahan Tepung Biji Alpukat 15%	30	6.7817
Penambahan Tepung Biji Alpukat 20%	30	7.0200
Sig.		.490

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 2,771.

a. Uses Harmonic Mean Sample Size = 30,000.

b. Alpha = ,05.



Lampiran 8. Data SPSS Hedonik Rasa *Snack bar*

**Tests of Between-Subjects Effects**

Dependent Variable: Rasa

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	8.143 <sup>a</sup>	2	4.072	1.010	.368
Intercept	3388.299	1	3388.299	840.901	.000
Konsentrasi_Tepung_Biji_Apukat	8.143	2	4.072	1.010	.368
Error	350.555	87	4.029		
Total	3746.997	90			
Corrected Total	358.698	89			

a. R Squared = ,023 (Adjusted R Squared = ,000)

**Rasa**

Duncan<sup>a,b</sup>

Konsentrasi_Tepung_Biji_Apukat	N	Subset 1
Penambahan Tepung Biji Apukat 20%	30	5.7187
Penambahan Tepung Biji Apukat 15%	30	6.2720
Penambahan Tepung Biji Apukat 10%	30	6.4167
Sig.		.208

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 4,029.

a. Uses Harmonic Mean Sample Size = 30,000.

b. Alpha = ,05.

Lampiran 9. Data SPSS Hedonik Aroma *Snack bar*

**Tests of Between-Subjects Effects**

Dependent Variable: Aroma

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	3.192 <sup>a</sup>	2	1.596	.536	.587
Intercept	4266.428	1	4266.428	1431.764	.000
Konsentrasi_Tepung_Biji_Alpukat	3.192	2	1.596	.536	.587
Error	259.246	87	2.980		
Total	4528.866	90			
Corrected Total	262.438	89			

a. R Squared = .012 (Adjusted R Squared = -.011)

**Aroma**

Duncan<sup>a,b</sup>

Konsentrasi_Tepung_Biji_Alpukat	N	Subset 1
Penambahan Tepung Biji Alpukat 20%	30	6.6650
Penambahan Tepung Biji Alpukat 15%	30	6.8653
Penambahan Tepung Biji Alpukat 10%	30	7.1250
Sig.		.336

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 2,980.

a. Uses Harmonic Mean Sample Size = 30,000.

b. Alpha = ,05.

Lampiran 10. Data SPSS Hedonik Tekstur *Snack bar*

**Tests of Between-Subjects Effects**

Dependent Variable: Tekstur

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	9.650 <sup>a</sup>	2	4.825	1.118	.331
Intercept	3136.441	1	3136.441	727.006	.000
Konsentrasi_Tepung_Biji_Alpukat	9.650	2	4.825	1.118	.331
Error	375.335	87	4.314		
Total	3521.425	90			
Corrected Total	384.984	89			

a. R Squared = ,025 (Adjusted R Squared = ,003)

**Tekstur**

Duncan<sup>a,b</sup>

Konsentrasi_Tepung_Biji_Alpukat	N	Subset 1
Penambahan Tepung Biji Alpukat 15%	30	5.5483
Penambahan Tepung Biji Alpukat 10%	30	5.8233
Penambahan Tepung Biji Alpukat 20%	30	6.3383
Sig.		.169

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 4,314.

a. Uses Harmonic Mean Sample Size = 30,000.

b. Alpha = ,05.

Lampiran 11. Data SPSS Hedonik *Overall Snack bar*

**Tests of Between-Subjects Effects**

Dependent Variable: Overall

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4.651 <sup>a</sup>	2	2.325	.928	.399
Intercept	3831.806	1	3831.806	1529.098	.000
Konsentrasi_Tepung_Biji_Apukat	4.651	2	2.325	.928	.399
Error	218.016	87	2.506		
Total	4054.473	90			
Corrected Total	222.666	89			

a. R Squared = ,021 (Adjusted R Squared = -,002)

**Overall**

Duncan<sup>a,b</sup>

Konsentrasi_Tepung_Biji_Apukat	N	Subset 1
Penambahan Tepung Biji Apukat 20%	30	6.2050
Penambahan Tepung Biji Apukat 15%	30	6.6583
Penambahan Tepung Biji Apukat 10%	30	6.7117
Sig.		.247

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = 2,506.

a. Uses Harmonic Mean Sample Size = 30,000.

b. Alpha = ,05.

Lampiran 12. Produk *Snack Bar*

