

Lampiran 1. Formulir Uji Hedonik

Formulir Uji Hedonik

Nama Panelis :

Tanggal :

Di hadapan Anda disajikan sampel *food bar*. Berikan penilaian Anda terhadap warna, aroma, rasa, dan tekstur dengan ketentuan sebagai berikut:

1. Beri tanda garis vertikal (I) pada garis yang telah disediakan pada masing-masing kategori pengukuran sesuai penilaian Anda.
2. Silahkan minum/berkumur terlebih dahulu sebelum Anda menilai sampel berikutnya.
3. Mohon **tidak membandingkan** antar sampel.

Kode Sampel:

Hedonik

Warna *food bar*

Sangat Tidak Suka |-----| Sangat Suka

Aroma *food bar*

Sangat Tidak Suka |-----| Sangat Suka

Rasa *food bar*

Sangat Tidak Suka |-----| Sangat Suka

Tekstur *food bar*

Sangat Tidak Suka |-----| Sangat Suka

Kesluruhan *food bar*/ Overall

Sangat Tidak Suka |-----| Sangat Suka

Komentar :

Lampiran 2. Formulir Uji Mutu Hedonik

Formulir Uji Mutu Hedonik

Nama Panelis :

Tanggal :

Di hadapan Anda disajikan sampel *food bar*. Berikan penilaian Anda terhadap warna, aroma, rasa, dan tekstur dengan ketentuan sebagai berikut:

4. Beri tanda garis vertikal (I) pada garis yang telah disediakan pada masing-masing kategori pengukuran sesuai penilaian Anda.
5. Silahkan minum/berkumur terlebih dahulu sebelum Anda menilai sampel berikutnya.
6. Mohon **tidak membandingkan** antar sampel.

Kode Sampel:

Mutu Hedonik

Warna *food bar*

Putih ————— Coklat

Aroma *food bar*

Lemah ————— Kuat

Rasa *food bar*

Hambar ————— Manis

Tekstur *food bar*

Keras ————— Renyah

Komentar :

Lampiran 3. Formulasi *Food Bar* dan Perhitungan Nilai Gizi

| | | D1 | D2 | D3 | D4 |
|----------------------------|----------|-----------|-----------|-----------|-----------|
| | | 10:10:10 | 15:10:05 | 10:15:05 | 15:15:00 |
| Tepung Talas Bogor | 100 gram | 10 gram | 15 gram | 10 gram | 15 gram |
| Protein | 3.9 | 0.39 | 0.585 | 0.39 | 0.585 |
| Lemak | 2.01 | 0.201 | 0.3015 | 0.201 | 0.3015 |
| Karbohidrat | 84 | 8.4 | 12.6 | 8.4 | 12.6 |
| Energi | 400.9 | 40.09 | 60.135 | 40.09 | 60.135 |
| Tepung Kacang Merah | 100 gram | 10 gram | 10 gram | 15 gram | 15 gram |
| Protein | 22.85 | 2.285 | 2.285 | 3.4275 | 3.4275 |
| Lemak | 2.4 | 0.24 | 0.24 | 0.36 | 0.36 |
| Karbohidrat | 64.15 | 6.415 | 6.415 | 9.6225 | 9.6225 |
| Energi | 369.35 | 36.935 | 36.935 | 55.4025 | 55.4025 |
| Tepung Labu Kuning | 100 gram | 10 gram | 5 gram | 5 gram | 0 gram |
| Protein | 15.69 | 1.569 | 0.7845 | 0.7845 | |
| Lemak | 1.62 | 0.162 | 0.081 | 0.081 | |
| Karbohidrat | 4.28 | 0.428 | 0.214 | 0.214 | |
| Energi | 94.46 | 9.446 | 4.723 | 4.723 | |
| Gula | 100 gram | 12 gram | 12 gram | 12 gram | 12 gram |
| Protein | | | | | |
| Lemak | | | | | |
| Karbohidrat | 94 | 11.28 | 11.28 | 11.28 | 11.28 |
| Energi | 394 | 47.28 | 47.28 | 47.28 | 47.28 |
| Margarin | 100 gram | 8 gram | 8 gram | 8 gram | 8 gram |
| Protein | 0.6 | 0.048 | 0.048 | 0.048 | 0.048 |
| Lemak | 81 | 6.48 | 6.48 | 6.48 | 6.48 |
| Karbohidrat | 0.4 | 0.032 | 0.032 | 0.032 | 0.032 |
| Energi | 720 | 57.6 | 57.6 | 57.6 | 57.6 |
| Susu Full Cream | 100 gram | 10 gram | 10 gram | 10 gram | 10 gram |
| Protein | 27 | 2.7 | 2.7 | 2.7 | 2.7 |
| Lemak | 26 | 2.6 | 2.6 | 2.6 | 2.6 |
| Karbohidrat | 40 | 4 | 4 | 4 | 4 |
| Energi | 502 | 50.2 | 50.2 | 50.2 | 50.2 |
| TOTAL | | D1 | D2 | D3 | D4 |
| Protein | | 6.992 | 6.4025 | 7.35 | 6.7605 |
| Lemak | | 9.683 | 9.7025 | 9.722 | 9.7415 |
| Karbohidrat | | 30.555 | 34.541 | 33.5485 | 37.5345 |
| Energi | | 241.551 | 256.873 | 255.2955 | 270.6175 |

Lampiran 4. Informed Consent

PROGRAM STUDI ILMU GIZI
FAKULTAS ILMU-ILMU KESEHATAN
UNIVERSITAS ESA UNGGUL
Jl. Arjuna Utara 9, Kebon Jeruk, Jakarta Barat 11510
Telp. (021) 5674223 Fax (021) 5674248

**LEMBAR PERSETUJUAN PANELIS
(INFORMED CONSENT)**

Saya yang bertanda tangan di bawah ini :

Nama :
Umur :
Fakultas/Jurusan :

Menyatakan bersedia menjadi panelis penelitian dari :

Nama : Della Juita
NIM : 2013-32-029
Judul : **Analisis Daya Terima dan Nilai Gizi Food Bar dengan Campuran Tepung Talas Bogor (*Colocasia esculenta* (L) Schott), Kacang Merah (*Phaseolus vulgaris* L.), dan Labu Kuning (*Cucurbita moschata*) untuk Pangan Darurat Bencana (Emergency Food)**

Saya telah mendapat penjelasan dari peneliti mengenai tujuan penelitian ini. Saya mengerti bahwa penelitian ini tidak akan membahayakan diri saya. Identitas dan jawaban yang akan saya berikan akan dijaga kerahasiaannya dan hanya diperlukan sebagai bahan penelitian.

Demikian surat pernyataan ini saya tandatangani secara sadar dan tanpa ada paksaan dari pihak manapun.

Jakarta, 2017
Panelis

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Lampiran 5. Daftar Hadir Uji Organoleptik

DAFTAR HADIR PANELIS UJI ORGANOLEPTIK FOOD BAR

| No. | NAMA | ANGKATAN | TTD |
|-----|-----------------------|----------|-----|
| 1. | Ikke Amelia | 2015 | |
| 2. | Feni Evita P. | 2015 | |
| 3. | Dharmira R. | 2015 | |
| 4. | Nadya Farodilla | 2015 | |
| 5. | HURLINDA | 2015 | |
| 6. | BALLYNY | 2015 | |
| 7. | Inni Fatmawati | 2015 | |
| 8. | Isni Jasmin Rai Putri | 2015 | |
| 9. | Yemi Frederika | 2015 | |
| 10. | Azalea Putri Yunita | 2015 | |
| 11. | Della Jihanita | 2015 | |
| 12. | Murjanah | 2013 | |
| 13. | Anita Devi R. | 2013 | |
| 14. | Desiana Dwi Saputri | 2013 | |
| 15. | Arif. Nugandoko | 2016 | |
| 16. | OKTRIMA KURNIAMTO | 2016 | |
| 17. | ANN DESA SUWITONARASI | 2016 | |
| 18. | KRISTIPANTI GRES | 2016 | |
| 19. | WIWI ULFAMATI S. | 2016 | |
| 20. | Mandari Parulan | 2016 | |
| 21. | Mur Apri R. Abdul | 2016 | |
| 22. | FADILA T. | 2016 | |
| 23. | Septiarni N.S | 2016 | |
| 24. | Sholcha Ekti | 2013 | |
| 25. | Anah | 2013 | |
| 26. | Una | 2015 | |
| 27. | Rima ym | 2013 | |
| 28. | Anni F | 2013 | |
| 29. | Ahmad Aric | 2013 | |
| 30. | Abigail D. | 2013 | |

Lampiran 6. Hasil Uji One Way ANOVA

Descriptives

Warna uji hedonik food bar

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|-----|-------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| D1 | 25 | 51.48 | 12.781 | 2.556 | 46.20 | 56.76 | 23 | 80 |
| D2 | 25 | 69.84 | 11.810 | 2.362 | 64.97 | 74.71 | 44 | 98 |
| D3 | 25 | 69.92 | 14.966 | 2.993 | 63.74 | 76.10 | 43 | 95 |
| D4 | 25 | 76.68 | 8.924 | 1.785 | 73.00 | 80.36 | 60 | 96 |
| Total | 100 | 66.98 | 15.352 | 1.535 | 63.93 | 70.03 | 23 | 98 |

ANOVA

Warna uji hedonik food bar

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 8779.080 | 3 | 2926.360 | 19.301 | .000 |
| Within Groups | 14554.880 | 96 | 151.613 | | |
| Total | 23333.960 | 99 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Warna uji hedonik food bar

Bonferroni

| (I) Formula Food Bar | (J) Formula Food Bar | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|----------------------|----------------------|-----------------------|------------|-------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| D1 | D2 | -18.360* | 3.483 | .000 | -27.74 | -8.98 |
| | D3 | -18.440* | 3.483 | .000 | -27.82 | -9.06 |
| | D4 | -25.200* | 3.483 | .000 | -34.58 | -15.82 |
| D2 | D1 | 18.360* | 3.483 | .000 | 8.98 | 27.74 |
| | D3 | -.080 | 3.483 | 1.000 | -9.46 | 9.30 |
| | D4 | -6.840 | 3.483 | .315 | -16.22 | 2.54 |
| D3 | D1 | 18.440* | 3.483 | .000 | 9.06 | 27.82 |
| | D2 | .080 | 3.483 | 1.000 | -9.30 | 9.46 |
| | D4 | -6.760 | 3.483 | .331 | -16.14 | 2.62 |
| D4 | D1 | 25.200* | 3.483 | .000 | 15.82 | 34.58 |
| | D2 | 6.840 | 3.483 | .315 | -2.54 | 16.22 |
| | D3 | 6.760 | 3.483 | .331 | -2.62 | 16.14 |

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

Descriptives

Aroma uji hedonik food bar

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|-----|-------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| D1 | 25 | 55.00 | 9.265 | 1.853 | 51.18 | 58.82 | 25 | 75 |
| D2 | 25 | 80.12 | 10.910 | 2.182 | 75.62 | 84.62 | 55 | 97 |
| D3 | 25 | 64.00 | 10.243 | 2.049 | 59.77 | 68.23 | 31 | 83 |
| D4 | 25 | 73.20 | 8.855 | 1.771 | 69.54 | 76.86 | 51 | 91 |
| Total | 100 | 68.08 | 13.592 | 1.359 | 65.38 | 70.78 | 25 | 97 |

ANOVA

Aroma uji hedonik food bar

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 8972.720 | 3 | 2990.907 | 30.819 | .000 |
| Within Groups | 9316.640 | 96 | 97.048 | | |
| Total | 18289.360 | 99 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Aroma uji hedonik food bar
Bonferroni

| (I) Formula Food Bar | (J) Formula Food Bar | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|----------------------|----------------------|-----------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| D1 | D2 | -25.120* | 2.786 | .000 | -32.63 | -17.61 |
| | D3 | -9.000* | 2.786 | .010 | -16.51 | -1.49 |
| | D4 | -18.200* | 2.786 | .000 | -25.71 | -10.69 |
| D2 | D1 | 25.120* | 2.786 | .000 | 17.61 | 32.63 |
| | D3 | 16.120* | 2.786 | .000 | 8.61 | 23.63 |
| | D4 | 6.920 | 2.786 | .088 | -.59 | 14.43 |
| D3 | D1 | 9.000* | 2.786 | .010 | 1.49 | 16.51 |
| | D2 | -16.120* | 2.786 | .000 | -23.63 | -8.61 |
| | D4 | -9.200* | 2.786 | .008 | -16.71 | -1.69 |
| D4 | D1 | 18.200* | 2.786 | .000 | 10.69 | 25.71 |
| | D2 | -6.920 | 2.786 | .088 | -14.43 | .59 |
| | D3 | 9.200* | 2.786 | .008 | 1.69 | 16.71 |

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

Descriptives

Rasa uji hedonik food bar

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|-----|-------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| D1 | 25 | 58.36 | 10.340 | 2.068 | 54.09 | 62.63 | 29 | 73 |
| D2 | 25 | 79.24 | 12.891 | 2.578 | 73.92 | 84.56 | 49 | 98 |
| D3 | 25 | 65.20 | 14.617 | 2.923 | 59.17 | 71.23 | 26 | 90 |
| D4 | 25 | 67.40 | 11.251 | 2.250 | 62.76 | 72.04 | 34 | 93 |
| Total | 100 | 67.55 | 14.350 | 1.435 | 64.70 | 70.40 | 26 | 98 |

ANOVA

Rasa uji hedonik food bar

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 5666.430 | 3 | 1888.810 | 12.318 | .000 |
| Within Groups | 14720.320 | 96 | 153.337 | | |
| Total | 20386.750 | 99 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Rasa uji hedonik food bar

Bonferroni

| (I) Formula Food Bar | (J) Formula Food Bar | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|----------------------|----------------------|-----------------------|------------|-------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| D1 | D2 | -20.880* | 3.502 | .000 | -30.32 | -11.44 |
| | D3 | -6.840 | 3.502 | .322 | -16.28 | 2.60 |
| | D4 | -9.040 | 3.502 | .068 | -18.48 | .40 |
| D2 | D1 | 20.880* | 3.502 | .000 | 11.44 | 30.32 |
| | D3 | 14.040* | 3.502 | .001 | 4.60 | 23.48 |
| | D4 | 11.840* | 3.502 | .006 | 2.40 | 21.28 |
| D3 | D1 | 6.840 | 3.502 | .322 | -2.60 | 16.28 |
| | D2 | -14.040* | 3.502 | .001 | -23.48 | -4.60 |
| | D4 | -2.200 | 3.502 | 1.000 | -11.64 | 7.24 |
| D4 | D1 | 9.040 | 3.502 | .068 | -.40 | 18.48 |
| | D2 | -11.840* | 3.502 | .006 | -21.28 | -2.40 |
| | D3 | 2.200 | 3.502 | 1.000 | -7.24 | 11.64 |

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

Descriptives

Tekstur uji hedonik food bar

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|-----|-------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| D1 | 25 | 52.60 | 14.347 | 2.869 | 46.68 | 58.52 | 19 | 69 |
| D2 | 25 | 75.04 | 11.436 | 2.287 | 70.32 | 79.76 | 52 | 96 |
| D3 | 25 | 76.12 | 7.618 | 1.524 | 72.98 | 79.26 | 63 | 94 |
| D4 | 25 | 78.52 | 10.947 | 2.189 | 74.00 | 83.04 | 45 | 96 |
| Total | 100 | 70.57 | 15.332 | 1.533 | 67.53 | 73.61 | 19 | 96 |

ANOVA

Tekstur uji hedonik food bar

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 10922.670 | 3 | 3640.890 | 28.307 | .000 |
| Within Groups | 12347.840 | 96 | 128.623 | | |
| Total | 23270.510 | 99 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Tekstur uji hedonik food bar

Bonferroni

| (I) Formula Food Bar | (J) Formula Food Bar | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|----------------------|----------------------|-----------------------|------------|-------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| D1 | D2 | -22.440* | 3.208 | .000 | -31.08 | -13.80 |
| | D3 | -23.520* | 3.208 | .000 | -32.16 | -14.88 |
| | D4 | -25.920* | 3.208 | .000 | -34.56 | -17.28 |
| D2 | D1 | 22.440* | 3.208 | .000 | 13.80 | 31.08 |
| | D3 | -1.080 | 3.208 | 1.000 | -9.72 | 7.56 |
| | D4 | -3.480 | 3.208 | 1.000 | -12.12 | 5.16 |
| D3 | D1 | 23.520* | 3.208 | .000 | 14.88 | 32.16 |
| | D2 | 1.080 | 3.208 | 1.000 | -7.56 | 9.72 |
| | D4 | -2.400 | 3.208 | 1.000 | -11.04 | 6.24 |
| D4 | D1 | 25.920* | 3.208 | .000 | 17.28 | 34.56 |
| | D2 | 3.480 | 3.208 | 1.000 | -5.16 | 12.12 |
| | D3 | 2.400 | 3.208 | 1.000 | -6.24 | 11.04 |

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

Descriptives

Keseluruhan uji hedonik food bar

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|-----|-------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| D1 | 25 | 57.64 | 11.452 | 2.290 | 52.91 | 62.37 | 14 | 76 |
| D2 | 25 | 76.84 | 8.721 | 1.744 | 73.24 | 80.44 | 62 | 96 |
| D3 | 25 | 68.12 | 7.474 | 1.495 | 65.03 | 71.21 | 51 | 81 |
| D4 | 25 | 75.72 | 7.569 | 1.514 | 72.60 | 78.84 | 56 | 90 |
| Total | 100 | 69.58 | 11.706 | 1.171 | 67.26 | 71.90 | 14 | 96 |

ANOVA

Keseluruhan uji hedonik food bar

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 5877.560 | 3 | 1959.187 | 24.462 | .000 |
| Within Groups | 7688.800 | 96 | 80.092 | | |
| Total | 13566.360 | 99 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Keseluruhan uji hedonik food bar
Bonferroni

| (I) Formula Food Bar | (J) Formula Food Bar | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|----------------------|----------------------|-----------------------|------------|-------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| D1 | D2 | -19.200* | 2.531 | .000 | -26.02 | -12.38 |
| | D3 | -10.480* | 2.531 | .000 | -17.30 | -3.66 |
| | D4 | -18.080* | 2.531 | .000 | -24.90 | -11.26 |
| D2 | D1 | 19.200* | 2.531 | .000 | 12.38 | 26.02 |
| | D3 | 8.720* | 2.531 | .005 | 1.90 | 15.54 |
| | D4 | 1.120 | 2.531 | 1.000 | -5.70 | 7.94 |
| D3 | D1 | 10.480* | 2.531 | .000 | 3.66 | 17.30 |
| | D2 | -8.720* | 2.531 | .005 | -15.54 | -1.90 |
| | D4 | -7.600* | 2.531 | .020 | -14.42 | -.78 |
| D4 | D1 | 18.080* | 2.531 | .000 | 11.26 | 24.90 |
| | D2 | -1.120 | 2.531 | 1.000 | -7.94 | 5.70 |
| | D3 | 7.600* | 2.531 | .020 | .78 | 14.42 |

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

Descriptives

Warna uji mutu hedonik food bar

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|-----|-------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| D1 | 25 | 80.44 | 11.214 | 2.243 | 75.81 | 85.07 | 55 | 100 |
| D2 | 25 | 71.96 | 11.171 | 2.234 | 67.35 | 76.57 | 46 | 91 |
| D3 | 25 | 69.28 | 10.294 | 2.059 | 65.03 | 73.53 | 43 | 86 |
| D4 | 25 | 37.24 | 13.364 | 2.673 | 31.72 | 42.76 | 11 | 63 |
| Total | 100 | 64.73 | 20.033 | 2.003 | 60.76 | 68.70 | 11 | 100 |

ANOVA

Warna uji mutu hedonik food bar

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 26886.990 | 3 | 8962.330 | 66.994 | .000 |
| Within Groups | 12842.720 | 96 | 133.778 | | |
| Total | 39729.710 | 99 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Warna uji mutu hedonik food bar
Bonferroni

| (I) Formula Food Bar | (J) Formula Food Bar | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|----------------------|----------------------|-----------------------|------------|-------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| D1 | D2 | 8.480 | 3.271 | .066 | -.33 | 17.29 |
| | D3 | 11.160* | 3.271 | .006 | 2.35 | 19.97 |
| | D4 | 43.200* | 3.271 | .000 | 34.39 | 52.01 |
| D2 | D1 | -8.480 | 3.271 | .066 | -17.29 | .33 |
| | D3 | 2.680 | 3.271 | 1.000 | -6.13 | 11.49 |
| | D4 | 34.720* | 3.271 | .000 | 25.91 | 43.53 |
| D3 | D1 | -11.160* | 3.271 | .006 | -19.97 | -2.35 |
| | D2 | -2.680 | 3.271 | 1.000 | -11.49 | 6.13 |
| | D4 | 32.040* | 3.271 | .000 | 23.23 | 40.85 |
| D4 | D1 | -43.200* | 3.271 | .000 | -52.01 | -34.39 |
| | D2 | -34.720* | 3.271 | .000 | -43.53 | -25.91 |
| | D3 | -32.040* | 3.271 | .000 | -40.85 | -23.23 |

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

Descriptives

Aroma uji mutu hedonik food bar

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|-----|-------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| D1 | 25 | 78.40 | 5.276 | 1.055 | 76.22 | 80.58 | 71 | 91 |
| D2 | 25 | 55.32 | 8.240 | 1.648 | 51.92 | 58.72 | 41 | 70 |
| D3 | 25 | 66.72 | 7.982 | 1.596 | 63.43 | 70.01 | 46 | 86 |
| D4 | 25 | 62.60 | 8.670 | 1.734 | 59.02 | 66.18 | 45 | 76 |
| Total | 100 | 65.76 | 11.291 | 1.129 | 63.52 | 68.00 | 41 | 91 |

ANOVA

Aroma uji mutu hedonik food bar

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 6991.760 | 3 | 2330.587 | 39.737 | .000 |
| Within Groups | 5630.480 | 96 | 58.651 | | |
| Total | 12622.240 | 99 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Aroma uji mutu hedonik food bar
Bonferroni

| (I) Formula Food Bar | (J) Formula Food Bar | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|----------------------|----------------------|-----------------------|------------|------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| D1 | D2 | 23.080* | 2.166 | .000 | 17.24 | 28.92 |
| | D3 | 11.680* | 2.166 | .000 | 5.84 | 17.52 |
| | D4 | 15.800* | 2.166 | .000 | 9.96 | 21.64 |
| D2 | D1 | -23.080* | 2.166 | .000 | -28.92 | -17.24 |
| | D3 | -11.400* | 2.166 | .000 | -17.24 | -5.56 |
| | D4 | -7.280* | 2.166 | .007 | -13.12 | -1.44 |
| D3 | D1 | -11.680* | 2.166 | .000 | -17.52 | -5.84 |
| | D2 | 11.400* | 2.166 | .000 | 5.56 | 17.24 |
| | D4 | 4.120 | 2.166 | .361 | -1.72 | 9.96 |
| D4 | D1 | -15.800* | 2.166 | .000 | -21.64 | -9.96 |
| | D2 | 7.280* | 2.166 | .007 | 1.44 | 13.12 |
| | D3 | -4.120 | 2.166 | .361 | -9.96 | 1.72 |

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

Descriptives

Rasa uji mutu hedonik food bar

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|-----|-------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| D1 | 25 | 58.76 | 9.532 | 1.906 | 54.83 | 62.69 | 39 | 78 |
| D2 | 25 | 73.44 | 8.799 | 1.760 | 69.81 | 77.07 | 55 | 96 |
| D3 | 25 | 61.96 | 11.642 | 2.328 | 57.15 | 66.77 | 42 | 85 |
| D4 | 25 | 71.32 | 12.648 | 2.530 | 66.10 | 76.54 | 48 | 93 |
| Total | 100 | 66.37 | 12.279 | 1.228 | 63.93 | 68.81 | 39 | 96 |

ANOVA

Rasa uji mutu hedonik food bar

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 3796.190 | 3 | 1265.397 | 10.913 | .000 |
| Within Groups | 11131.120 | 96 | 115.949 | | |
| Total | 14927.310 | 99 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Rasa uji mutu hedonik food bar

Bonferroni

| (I) Formula Food Bar | (J) Formula Food Bar | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|----------------------|----------------------|-----------------------|------------|-------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| D1 | D2 | -14.680* | 3.046 | .000 | -22.89 | -6.47 |
| | D3 | -3.200 | 3.046 | 1.000 | -11.41 | 5.01 |
| | D4 | -12.560* | 3.046 | .000 | -20.77 | -4.35 |
| D2 | D1 | 14.680* | 3.046 | .000 | 6.47 | 22.89 |
| | D3 | 11.480* | 3.046 | .002 | 3.27 | 19.69 |
| | D4 | 2.120 | 3.046 | 1.000 | -6.09 | 10.33 |
| D3 | D1 | 3.200 | 3.046 | 1.000 | -5.01 | 11.41 |
| | D2 | -11.480* | 3.046 | .002 | -19.69 | -3.27 |
| | D4 | -9.360* | 3.046 | .017 | -17.57 | -1.15 |
| D4 | D1 | 12.560* | 3.046 | .000 | 4.35 | 20.77 |
| | D2 | -2.120 | 3.046 | 1.000 | -10.33 | 6.09 |
| | D3 | 9.360* | 3.046 | .017 | 1.15 | 17.57 |

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

Descriptives

Tekstur uji mutu hedonik food bar

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|-------|-----|-------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| D1 | 25 | 59.24 | 6.796 | 1.359 | 56.43 | 62.05 | 45 | 72 |
| D2 | 25 | 69.52 | 7.383 | 1.477 | 66.47 | 72.57 | 56 | 85 |
| D3 | 25 | 71.00 | 8.718 | 1.744 | 67.40 | 74.60 | 52 | 89 |
| D4 | 25 | 75.12 | 9.960 | 1.992 | 71.01 | 79.23 | 56 | 93 |
| Total | 100 | 68.72 | 10.070 | 1.007 | 66.72 | 70.72 | 45 | 93 |

ANOVA

Tekstur uji mutu hedonik food bar

| | Sum of Squares | df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|--------|------|
| Between Groups | 3416.720 | 3 | 1138.907 | 16.512 | .000 |
| Within Groups | 6621.440 | 96 | 68.973 | | |
| Total | 10038.160 | 99 | | | |

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Tekstur uji mutu hedonik food bar
Bonferroni

| (I) Formula Food Bar | (J) Formula Food Bar | Mean Difference (I-J) | Std. Error | Sig. | 95% Confidence Interval | |
|----------------------|----------------------|-----------------------|------------|-------|-------------------------|-------------|
| | | | | | Lower Bound | Upper Bound |
| D1 | D2 | -10.280* | 2.349 | .000 | -16.61 | -3.95 |
| | D3 | -11.760* | 2.349 | .000 | -18.09 | -5.43 |
| | D4 | -15.880* | 2.349 | .000 | -22.21 | -9.55 |
| D2 | D1 | 10.280* | 2.349 | .000 | 3.95 | 16.61 |
| | D3 | -1.480 | 2.349 | 1.000 | -7.81 | 4.85 |
| | D4 | -5.600 | 2.349 | .115 | -11.93 | .73 |
| D3 | D1 | 11.760* | 2.349 | .000 | 5.43 | 18.09 |
| | D2 | 1.480 | 2.349 | 1.000 | -4.85 | 7.81 |
| | D4 | -4.120 | 2.349 | .496 | -10.45 | 2.21 |
| D4 | D1 | 15.880* | 2.349 | .000 | 9.55 | 22.21 |
| | D2 | 5.600 | 2.349 | .115 | -.73 | 11.93 |
| | D3 | 4.120 | 2.349 | .496 | -2.21 | 10.45 |

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

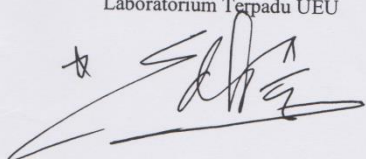
Lampiran 7. Hasil Proksimat dan Bomb Calorimeter

LABORATORIUM TERPADU FIKES
UNIVERSITAS ESA UNGGUL
*Jalan Arjuna Utara No.9, RT.1/RW.2, Duri Keba, Kebon Jeruk, RT.1/RW.2, Duri Keba, Kb. Jeruk,
Kota Jakarta Barat, Daerah Khusus Ibukota Jakarta 11510*

**HASIL ANALISIS PROKSIMAT DAN BOMB
CALORIMETER**

| Kode Sampel | Ulangan | Kadar Air (%) | Kadar Abu (%) | Kadar Lemak (%) | Kadar Serat (%) | Kadar Protein (%) | Energi (kcal/g) |
|-------------|-----------|---------------|---------------|-----------------|-----------------|-------------------|-----------------|
| D2 | 1 | 0.28 | 3.51 | 20.54 | 0.47 | 19.59 | 5.47 |
| | 2 | 0.17 | 3.56 | 20.98 | 0.46 | 19.50 | |
| | Rata-rata | 0.23 | 3.54 | 20.76 | 0.47 | 19.55 | |

Jakarta, 3 Agustus 2017
Laboratorium Terpadu UEU



Eddy Poerwoto Boedijono, S.Si., M.Farm

Lampiran 8. Perhitungan Sumbangan Makronutrien *Food Bar D2*

1. Protein

$$\frac{19.55\% \times 50 \times 4}{273.5} = 14.3\%$$

$$14.3\% \times \frac{273.5}{4} = 9.77 \text{ gram}$$

2. Lemak

$$\frac{20.76\% \times 50 \times 9}{273.5} = 34.15\%$$

$$34.15\% \times \frac{273.5}{9} = 10.37 \text{ gram}$$

3. Karbohidrat

$$\frac{55.45\% \times 50 \times 4}{273.5} = 40.54\%$$

$$40.54\% \times \frac{273.5}{4} = 27.21 \text{ gram}$$

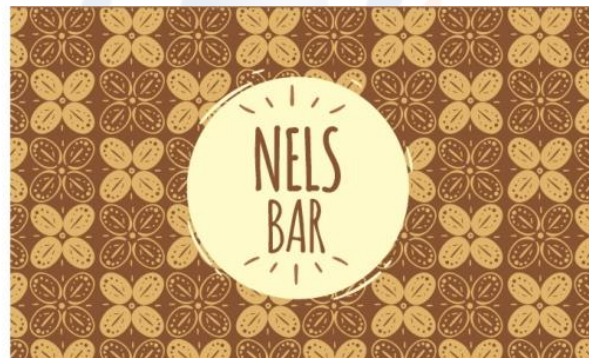
Lampiran 9. Perkiraan Harga *Food Bar* D2

| Bahan | Harga (Rp) | Harga (Rp) D2 Per Bar |
|---------------------|-------------------|------------------------------|
| Tepung Talas Bogor | 22.000/ 1000 gram | 330/ 15 gram |
| Kacang Merah | 25000/ 1000 gram | 250/ 10 gram |
| Labu Kuning | 75000/ 750 gram | 500/ 5 gram |
| Gula | 17950/ 1000 gram | 215.4/ 12 gram |
| Susu | 44650/ 400 gram | 1120/ 10 gram |
| Margarin | 5000/ 200 gram | 200/ 8 gram |
| Total Rp | | 2615.4 |

Lampiran 10. Dokumentasi Uji Organoleptik



Lampiran 11. Dokumentasi Uji Proksimat dan *Bomb Calorimeter*

Lampiran 12. Design Produk *Food Bar*

| INFORMASI NILAI GIZI | | | |
|---|--------------------------|-------------|------------|
| Takaran Saji 1 bar (50 gram) | | | %AKG* |
| Jumlah Sajian per Kemasan : 3 | Lemak Total | 10 g | 15% |
| | Protein | 10 g | 17% |
| | Karbohidrat Total | 28 g | 10% |
| Energi Total 270 kkal | | | |
| *Persen AKG berdasarkan kebutuhan energi 2000 kkal. Kebutuhan energi Anda mungkin lebih tinggi atau lebih rendah | | | |
| Komposisi : Tepung talas bogor, tepung kacang merah, tepung labu kuning, susu <i>full cream</i> , margarin, gula. | | | |