

Lampiran 1. Lembar Persetujuan Panelis Semi Terlatih

LEMBAR PERSETUJUAN PANELIS (*INFORMED CONSENT*)

Saya (Fitri Meleni) adalah mahasiswa Program Studi D III Gizi Poltekkes Kemenkes Riau, saat ini sedang melakukan pengambilan data untuk uji hedonik pada produk makanan nugget tahu dengan penambahan jamur merang. Kegiatan ini dilakukan untuk melengkapi data Laporan Tugas Akhir yang mana menjadi salah satu syarat dalam memperoleh gelar diploma gizi. Oleh karena itu, saya memohon kesediaan waktu rekan-rekan untuk menjadi panelis agak terlatih. Perlu saya informasikan bahwa keikutsertaan rekan-rekan sebagai panelis agak terlatih bersifat sukarela dan tidak mempunyai alergi terhadap jamur dan gluten (tepung-tepungan). Oleh karena itu, saya memohon kesediaan waktu rekan-rekan untuk mengisi formulir penilaian kesukaan terhadap produk yang disajikan. Saya akan merahasiakan seluruh informasi yang rekan-rekan berikan. Atas kerja samanya saya ucapkan terimakasih.

Informed Consent

Setelah mendapat penjelasan mengenai tujuan dan manfaat pengambilan data tersebut, dengan ini saya

Nama :

Umur :

Jenis Kelamin :

Dengan ini menyatakan bersedia menjadi panelis penelitian dari :

Nama : Fitri Meleni

NIM : P031813411051

Produk : *Nugget* tahu dengan penambahan jamur merang

Pekanbaru, 2021
Panelis

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Lampiran 2. Formulir Penilaian Uji Hedonik

FORMULIR PENILAIAN UJI HEDONIK

Nama Panelis :

Hari/Tanggal :

Jenis Produk : Nugget Tahu Jamur Merang

Petunjuk :

1. Dihadapan anda telah disajikan 4 macam produk nugget tahu jamur merang dengan kode sampel yang berbeda-beda. Sebelum melakukan uji organoleptik, kumur terlebih dahulu dengan air yang telah disediakan.
2. Nyatakan pilihan anda terhadap warna, aroma, tekstur dan rasa masing-masing sampel dengan menuliskan angka yang tertera di keterangan

| Parameter : | Kode sampel | | | |
|-------------|-------------|-----|-----|-----|
| | Penilaian | | | |
| | 130 | 180 | 474 | 761 |
| Rasa | | | | |
| Warna | | | | |
| Aroma | | | | |
| Tekstur | | | | |

Ket :

5 = sangat suka

4 = suka

3 = agak suka

2 = tidak suka

1 = sangat tidak suka

Terimakasih atas partisipasinya.

Lampiran 3. Hasil Penilaian Tingkat Kesukaan Terhadap Rasa

| Nomor Responden | RASA (S1) | | | |
|-----------------|-----------|------|------|------|
| | S1P0 | S1P1 | S1P2 | S1P3 |
| 1 | 3 | 3 | 4 | 5 |
| 2 | 4 | 3 | 4 | 5 |
| 3 | 3 | 4 | 4 | 4 |
| 4 | 3 | 4 | 4 | 3 |
| 5 | 3 | 3 | 3 | 4 |
| 6 | 3 | 3 | 5 | 5 |
| 7 | 4 | 3 | 3 | 4 |
| 8 | 3 | 4 | 2 | 4 |
| 9 | 4 | 4 | 2 | 4 |
| 10 | 4 | 3 | 3 | 4 |
| 11 | 4 | 4 | 4 | 4 |
| 12 | 3 | 4 | 4 | 4 |
| 13 | 4 | 4 | 3 | 4 |
| 14 | 2 | 2 | 3 | 4 |
| 15 | 4 | 5 | 5 | 4 |
| 16 | 4 | 5 | 5 | 4 |
| 17 | 4 | 4 | 3 | 3 |
| 18 | 4 | 3 | 4 | 3 |
| 19 | 3 | 3 | 3 | 3 |
| 20 | 3 | 4 | 3 | 5 |
| 21 | 4 | 4 | 3 | 5 |
| 22 | 3 | 3 | 4 | 4 |
| 23 | 3 | 3 | 4 | 4 |
| 24 | 3 | 3 | 4 | 4 |
| 25 | 2 | 4 | 4 | 5 |
| Total | 84 | 89 | 90 | 102 |
| Rata-rata | 3.36 | 3.56 | 3.6 | 4.08 |

Lampiran 4. Hasil Penilaian Tingkat Kesukaan Terhadap Warna

| No Responden | WARNA (S2) | | | |
|--------------|------------|------|------|------|
| | S2P0 | S2P1 | S2P2 | S2P3 |
| 1 | 3 | 2 | 3 | 3 |
| 2 | 5 | 3 | 3 | 3 |
| 3 | 4 | 2 | 4 | 4 |
| 4 | 4 | 2 | 4 | 4 |
| 5 | 3 | 4 | 5 | 5 |
| 6 | 3 | 3 | 4 | 3 |
| 7 | 3 | 3 | 4 | 4 |
| 8 | 3 | 3 | 3 | 3 |
| 9 | 4 | 3 | 3 | 4 |
| 10 | 3 | 3 | 3 | 4 |
| 11 | 4 | 4 | 2 | 4 |
| 12 | 4 | 4 | 4 | 3 |
| 13 | 4 | 4 | 4 | 4 |
| 14 | 4 | 4 | 4 | 2 |
| 15 | 4 | 4 | 4 | 4 |
| 16 | 3 | 4 | 5 | 3 |
| 17 | 4 | 3 | 3 | 3 |
| 18 | 4 | 4 | 3 | 3 |
| 19 | 4 | 4 | 3 | 3 |
| 20 | 4 | 4 | 4 | 4 |
| 21 | 4 | 4 | 4 | 2 |
| 22 | 4 | 4 | 4 | 4 |
| 23 | 4 | 4 | 4 | 4 |
| 23 | 4 | 2 | 4 | 4 |
| 25 | 3 | 4 | 3 | 4 |
| Total | 93 | 85 | 91 | 88 |
| Rata-rata | 3.72 | 3.4 | 3.64 | 3.52 |

Lampiran 5. Hasil Penilaian Tingkat Kesukaan Terhadap Aroma

| No Responden | AROMA(S3) | | | |
|--------------|-----------|------|------|------|
| | S3P0 | S3P1 | S3P2 | S3P3 |
| 1 | 3 | 3 | 3 | 3 |
| 2 | 4 | 3 | 4 | 4 |
| 3 | 4 | 2 | 4 | 3 |
| 4 | 4 | 3 | 5 | 3 |
| 5 | 4 | 3 | 5 | 5 |
| 6 | 3 | 3 | 3 | 3 |
| 7 | 3 | 3 | 4 | 4 |
| 8 | 4 | 3 | 3 | 4 |
| 9 | 3 | 2 | 2 | 4 |
| 10 | 3 | 4 | 2 | 4 |
| 11 | 4 | 4 | 2 | 4 |
| 12 | 4 | 4 | 4 | 3 |
| 13 | 4 | 4 | 4 | 4 |
| 14 | 3 | 2 | 3 | 2 |
| 15 | 5 | 5 | 5 | 5 |
| 16 | 4 | 3 | 4 | 4 |
| 17 | 4 | 4 | 2 | 4 |
| 18 | 4 | 4 | 4 | 4 |
| 19 | 4 | 4 | 4 | 4 |
| 20 | 3 | 5 | 4 | 4 |
| 21 | 3 | 3 | 4 | 3 |
| 22 | 4 | 4 | 4 | 4 |
| 23 | 4 | 4 | 4 | 4 |
| 24 | 4 | 2 | 4 | 3 |
| 25 | 3 | 4 | 4 | 4 |
| Total | 92 | 85 | 91 | 93 |
| Rata-rata | 3.68 | 3.4 | 3.64 | 3.72 |

Lampiran 6. Hasil Penilaian Tingkat Kesukaan Terhadap Tekstur

| No Responden | TEKSTUR (S4) | | | |
|--------------|--------------|------|------|------|
| | S4P0 | S4P1 | S4P2 | S4P3 |
| 1 | 3 | 3 | 3 | 3 |
| 2 | 4 | 4 | 4 | 4 |
| 3 | 4 | 4 | 4 | 3 |
| 4 | 4 | 4 | 4 | 4 |
| 5 | 3 | 4 | 4 | 5 |
| 6 | 3 | 3 | 3 | 3 |
| 7 | 3 | 3 | 3 | 4 |
| 8 | 4 | 3 | 1 | 2 |
| 9 | 1 | 4 | 4 | 4 |
| 10 | 3 | 4 | 4 | 4 |
| 11 | 4 | 4 | 2 | 4 |
| 12 | 4 | 4 | 3 | 3 |
| 13 | 4 | 4 | 4 | 3 |
| 14 | 4 | 4 | 4 | 4 |
| 15 | 5 | 5 | 4 | 4 |
| 16 | 4 | 3 | 4 | 3 |
| 17 | 3 | 2 | 4 | 2 |
| 18 | 2 | 2 | 4 | 3 |
| 19 | 4 | 4 | 4 | 3 |
| 20 | 4 | 5 | 3 | 3 |
| 21 | 3 | 2 | 4 | 3 |
| 22 | 4 | 4 | 3 | 3 |
| 23 | 4 | 4 | 3 | 4 |
| 24 | 4 | 4 | 4 | 4 |
| 25 | 4 | 4 | 4 | 4 |
| Total | 89 | 91 | 88 | 86 |
| Rata-rata | 3.56 | 3.64 | 3.52 | 3.44 |

Lampiran 7. Hasil Analisa Terhadap Rasa Nugget Tahu Jamur Merang

Descriptives

Rasa

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|--------------|-----|------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| P0 (Kontrol) | 25 | 3.36 | .638 | .128 | 3.10 | 3.62 | 2 | 4 |
| P1 (50%) | 25 | 3.56 | .712 | .142 | 3.27 | 3.85 | 2 | 5 |
| P2 (75%) | 25 | 3.60 | .816 | .163 | 3.26 | 3.94 | 2 | 5 |
| P3 (90%) | 25 | 4.08 | .640 | .128 | 3.82 | 4.34 | 3 | 5 |
| Total | 100 | 3.65 | .744 | .074 | 3.50 | 3.80 | 2 | 5 |

ANOVA

Rasa

| | Sum of Squares | Df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 6.990 | 3 | 2.330 | 4.683 | .004 |
| Within Groups | 47.760 | 96 | .498 | | |
| Total | 54.750 | 99 | | | |

**Post Hoc Tests
Homogeneous Subsets**

| Rasa | | | |
|---|----|-------------------------|------|
| Duncan ^a | | | |
| Tingkat Kesukaan dan Analisa kadar Protein Nugget Tahu dengan Penambahan Jamur Merang | N | Subset for alpha = 0.01 | |
| | | 1 | 2 |
| P0 (Kontrol) | 25 | 3.36 | |
| P1 (50%) | 25 | 3.56 | 3.56 |
| P2 (75%) | 25 | 3.60 | 3.60 |
| P3 (90%) | 25 | | 4.08 |
| Sig. | | .261 | .014 |
| Means for groups in homogeneous subsets are displayed. | | | |
| a. Uses Harmonic Mean Sample Size = 25.000. | | | |

Lampiran 8. Hasil Analisa Terhadap Warna Nugget Tahu Jamur Merang

Descriptives

Warna

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|--------------|-----|------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| P0 (Kontrol) | 25 | 3.72 | .542 | .108 | 3.50 | 3.94 | 3 | 5 |
| P1 (50%) | 25 | 3.40 | .764 | .153 | 3.08 | 3.72 | 2 | 4 |
| P2 (75%) | 25 | 3.64 | .700 | .140 | 3.35 | 3.93 | 2 | 5 |
| P3 (90%) | 25 | 3.52 | .714 | .143 | 3.23 | 3.81 | 2 | 5 |
| Total | 100 | 3.57 | .685 | .069 | 3.43 | 3.71 | 2 | 5 |

ANOVA

Warna

| | Sum of Squares | Df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 1.470 | 3 | .490 | 1.044 | .377 |
| Within Groups | 45.040 | 96 | .469 | | |
| Total | 46.510 | 99 | | | |

Lampiran 9. Hasil Analisa Terhadap Aroma Nugget Tahu Jamur Merang

Descriptives

Aroma

| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
|--------------|-----|------|----------------|------------|----------------------------------|-------------|---------|---------|
| | | | | | Lower Bound | Upper Bound | | |
| P0 (Kontrol) | 25 | 3.68 | .557 | .111 | 3.45 | 3.91 | 3 | 5 |
| P1 (50%) | 25 | 3.40 | .866 | .173 | 3.04 | 3.76 | 2 | 5 |
| P2 (75%) | 25 | 3.64 | .907 | .181 | 3.27 | 4.01 | 2 | 5 |
| P3 (90%) | 25 | 3.72 | .678 | .136 | 3.44 | 4.00 | 2 | 5 |
| Total | 100 | 3.61 | .764 | .076 | 3.46 | 3.76 | 2 | 5 |

ANOVA

Aroma

| | Sum of Squares | Df | Mean Square | F | Sig. |
|----------------|----------------|----|-------------|------|------|
| Between Groups | 1.550 | 3 | .517 | .882 | .453 |
| Within Groups | 56.240 | 96 | .586 | | |
| Total | 57.790 | 99 | | | |

Lampiran 10. Hasil Analisa Terhadap Tekstur Nugget Tahu Jamur Merang

| Descriptives | | | | | | | | |
|--------------|-----|------|----------------|------------|----------------------------------|-------------|---------|---------|
| Tekstur | | | | | | | | |
| | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | | Minimum | Maximum |
| | | | | | Lower Bound | Upper Bound | | |
| P0 (Kontrol) | 25 | 3.56 | .821 | .164 | 3.22 | 3.90 | 1 | 5 |
| P1 (50%) | 25 | 3.64 | .810 | .162 | 3.31 | 3.97 | 2 | 5 |
| P2 (75%) | 25 | 3.52 | .770 | .154 | 3.20 | 3.84 | 1 | 4 |
| P3 (90%) | 25 | 3.44 | .712 | .142 | 3.15 | 3.73 | 2 | 5 |
| Total | 100 | 3.54 | .771 | .077 | 3.39 | 3.69 | 1 | 5 |

| ANOVA | | | | | |
|----------------|----------------|----|-------------|------|------|
| Tekstur | | | | | |
| | Sum of Squares | Df | Mean Square | F | Sig. |
| Between Groups | .520 | 3 | .173 | .285 | .836 |
| Within Groups | 58.320 | 96 | .608 | | |
| Total | 58.840 | 99 | | | |

Lampiran 11. Analisa Rata-Rata Kandungan Gizi

Analisa gizi perlakuan 0 (kontrol)

| Bahan | Berat (gr) | Energi | Protein | Lemak | Karbohidrat |
|---------------|------------|--------|---------|-------|-------------|
| Tahu | 200 gr | 80 | 6 | 3 | 8 |
| Wortel | 20 gr | 6.24 | 0.1 | - | 0.625 |
| Tepung terigu | 20 gr | 70 | 1.6 | - | 16 |
| Putih telur | 50 gr | 75 | 7 | 5 | - |
| Tepung roti | 20 gr | 70 | 1.6 | - | 16 |
| Total | | 301 | 16.3 | 9.5 | 40.6 |

Analisa gizi perlakuan 1 (50% penambahan jamur merang)

| Bahan | Berat (gr) | Energi | Protein | Lemak | Karbohidrat |
|---------------|------------|--------|---------|-------|-------------|
| Tahu | 200 gr | 80 | 6 | 3 | 8 |
| Jamur merang | 100 gr | 30 | 3.5 | 0.2 | 4 |
| Wortel | 20 gr | 6.24 | 0.1 | - | 0.625 |
| Tepung terigu | 20 gr | 70 | 1.6 | - | 16 |
| Putih telur | 50 gr | 75 | 7 | 5 | - |
| Tepung roti | 20 gr | 70 | 1.6 | - | 16 |
| Total | | 331,24 | 19.8 | 8.2 | 65.825 |

Analisa gizi perlakuan 2 (75% penambahan jamur merang)

| Bahan | Berat (gr) | Energi | Protein | Lemak | Karbohidrat |
|---------------|------------|---------------|-------------|-------------|--------------|
| Tahu | 200 gr | 80 | 6 | 3.5 | 8 |
| Jamur merang | 150 gr | 50 | 5 | 0.271 | 5.48 |
| Wortel | 20 gr | 6.24 | 0.1 | - | 0.625 |
| Tepung terigu | 20 gr | 70 | 1.6 | - | 16 |
| Putih telur | 50 gr | 75 | 7 | 5 | - |
| Tepung roti | 20 gr | 70 | 1.6 | - | 16 |
| Total | | 351,24 | 21.3 | 8.77 | 46.10 |

Analisis gizi perlakuan 3 (90% penambahan jamur merang)

| Bahan | Berat (gr) | Energi | Protein | Lemak | Karbohidrat |
|---------------|------------|---------------|--------------|-------------|--------------|
| Tahu | 200 gr | 80 | 6 | 3.5 | 8 |
| Jamur merang | 180 gr | 60 | 5.75 | 0.29 | 5.8 |
| Wortel | 20 gr | 6.24 | 0.1 | - | 0.625 |
| Tepung terigu | 20 gr | 70 | 1.6 | - | 16 |
| Putih telur | 50 gr | 75 | 7 | 5 | - |
| Tepung roti | 20 gr | 70 | 1.6 | - | 16 |
| Total | | 361.24 | 22.05 | 8.79 | 46.42 |

Lampiran 12. Dokumentasi



Gambar 8. Pematangan jamur merang



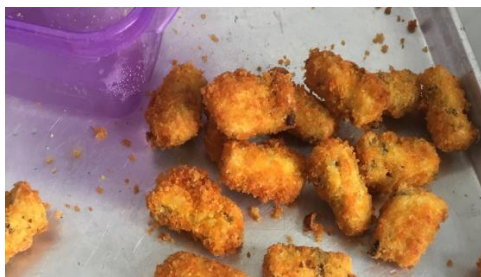
Gambar 9. Pengukusan jamur merang



Gambar 10. Pencampuran bahan-bahan



Gambar 11. Proses penggorengan



Gambar 12. Nugget tahu jamur merang



Gambar 13. Panelis uji organoleptik

Lampiran 13. Hasil Analisis Protein



**KEMENTERIAN PENDIDIKAN DAN KEBUDAYAAN
FAKULTAS PERTANIAN UNIVERSITAS RIAU
LABORATORIUM ANALISIS HASIL PERTANIAN**

HASIL ANALISIS PROTEIN

Pengirim : Fitri Meleni
Jumlah Sampel : 4 Sampel

Tanggal Sampel Masuk : 24 April 2021
Tanggal Sampel selesai : 27 April 2021

| NO | Kode Sampel | Protein % |
|----|-------------|-----------|
| 1 | P0 | 8,13 |
| 2 | P1 | 9,41 |
| 3 | P2 | 10,30 |
| 4 | P3 | 12,05 |


Ketua Laboratorium AHP
Fitri Meleni
NIP.197806132003122003