

LAMPIRAN

Lampiran 1. Pernyataan Persetujuan Menjadi Responden

PERNYATAAN PERSETUJUAAN MENJADI RESPONDEN

Bahwa saya yang bernama

Nama :

Umur :

Jenis Kelamin :

Berikan tanda (X) pada jawaban yang Anda pilih

1. Apakah saat ini Anda sedang sakit?

Ya, sakit.....

Tidak

2. Apakah Anda ada alergi terhadap ikan lele?

Ya

Tidak

Dengan ini bersedia menjadi responden dalam penelitian yang dilakukan oleh mahasiswa Politeknik Kesehatan Kemenkes Riau, yang bernama Tri Anna Maria Hulu dengan judul penelitian “Uji Tingkat Kesukaan Rengginang Ubi Kayu Dengan Penambahan Ikan Lele Dumbo”.

Tertanda

Responden

Lampiran 2. Formulir Uji Hedonik

Nama :
Tanggal Pengujian :
Jenis Produk :
Petunjuk :

1. Dihadapan Anda telah disajikan 4 jenis rengginang ubi kayu ikan lele dumbo 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, rasa dan tekstur. Masing-masing sampel dengan memberikan penilaian sesuai dengan skala penilaian angka (1-5) pada kolom yang tersedia.
 - 1 = sangat tidak suka
 - 2 = tidak suka
 - 3 = cukup suka
 - 4 = suka
 - 5 = sangat suka

| Parameter | Kode Sampel | | | |
|-----------|-------------|-----|-----|-----|
| | 330 | 478 | 560 | 890 |
| Warna | | | | |
| Aroma | | | | |
| Rasa | | | | |
| Tekstur | | | | |

Kritik dan Saran :

.....
.....

Atas perhatian dan partisipasinya saya ucapkan terima kasih.

Lampiran 3. Hasil Uji Anova terhadap Warna Rengginang Ubi Kayu Lele

| ANOVA | | | | | |
|---------------------------|-------------------------|-----|-------------|----------|------|
| Dependent Variable: Warna | | | | | |
| Source | Type III Sum of Squares | df | Mean Square | F | Sig. |
| Corrected Model | 20.040 ^a | 27 | .742 | 2.062 | .008 |
| Intercept | 1584.040 | 1 | 1584.040 | 4400.111 | .000 |
| Panelis | 16.960 | 24 | .707 | 1.963 | .015 |
| Sampel | 3.080 | 3 | 1.027 | 2.852 | .043 |
| Error | 25.920 | 72 | .360 | | |
| Total | 1630.000 | 100 | | | |
| Corrected Total | 45.960 | 99 | | | |

a. R Squared = .436 (Adjusted R Squared = .225)

| Descriptives | | | | | |
|--------------|------------|----------------|-------------|----------|----------|
| SAMPEL | N | Std. Deviation | Mean | Max | Min |
| P0_330 | 25 | .702 | 3.92 | 5 | 2 |
| P1_478 | 25 | .542 | 4.28 | 5 | 3 |
| P2_560 | 25 | .666 | 3.88 | 5 | 3 |
| P3_890 | 25 | .746 | 3.84 | 5 | 2 |
| Total | 100 | .681 | 3.98 | 5 | 2 |

| Duncan ^{a,b} | | | |
|-----------------------|----|--------|-------|
| Sampel | N | Subset | |
| | | 1 | 2 |
| P3_890 | 25 | 3.84 | |
| P2_560 | 25 | 3.88 | |
| P0_330 | 25 | 3.92 | |
| P1_478 | 25 | | 4.28 |
| Sig. | | .661 | 1.000 |

a. Uses Harmonic Mean Sample Size = 25.000.
b. Alpha = 0.05.

Lampiran 4. Hasil Uji Hedonik terhadap Warna Rengginang Ubi Kayu Lele

| Panelis | Perlakuan | | | | Total |
|------------------|-------------|-------------|-------------|-------------|--------------|
| | P0 | P1 | P2 | P3 | |
| | 330 | 478 | 560 | 890 | |
| 1 | 4 | 4 | 4 | 4 | 16 |
| 2 | 4 | 4 | 5 | 3 | 16 |
| 3 | 4 | 5 | 3 | 4 | 16 |
| 4 | 4 | 4 | 3 | 4 | 15 |
| 5 | 3 | 4 | 3 | 3 | 13 |
| 6 | 3 | 4 | 4 | 4 | 15 |
| 7 | 5 | 5 | 3 | 2 | 15 |
| 8 | 4 | 4 | 4 | 4 | 16 |
| 9 | 2 | 3 | 4 | 3 | 12 |
| 10 | 4 | 4 | 4 | 5 | 17 |
| 11 | 4 | 4 | 4 | 4 | 16 |
| 12 | 4 | 4 | 4 | 4 | 16 |
| 13 | 3 | 4 | 3 | 4 | 14 |
| 14 | 4 | 4 | 5 | 3 | 16 |
| 15 | 4 | 5 | 5 | 5 | 19 |
| 16 | 4 | 4 | 4 | 4 | 16 |
| 17 | 5 | 5 | 4 | 4 | 18 |
| 18 | 4 | 5 | 3 | 4 | 16 |
| 19 | 5 | 5 | 5 | 5 | 20 |
| 20 | 5 | 5 | 3 | 5 | 18 |
| 21 | 4 | 4 | 4 | 4 | 16 |
| 22 | 3 | 4 | 4 | 4 | 15 |
| 23 | 4 | 4 | 4 | 3 | 15 |
| 24 | 4 | 5 | 4 | 3 | 16 |
| 25 | 4 | 4 | 4 | 4 | 16 |
| Jumlah | 98 | 107 | 97 | 96 | 398 |
| Rata-Rata | 3.92 | 4.28 | 3.88 | 3.84 | 15.92 |

Lampiran 5. Hasil Uji Anova terhadap Aroma Rengginang Ubi Kayu Lele

ANOVA

Dependent Variable: Aroma

| Source | Type III Sum of Squares | df | Mean Square | F | Sig. |
|-----------------|-------------------------|-----|-------------|----------|------|
| Corrected Model | 12.340 ^a | 27 | .457 | 1.503 | .088 |
| Intercept | 1413.760 | 1 | 1413.760 | 4647.978 | .000 |
| Panelis | 8.740 | 24 | .364 | 1.197 | .274 |
| Sampel | 3.600 | 3 | 1.200 | 3.945 | .012 |
| Error | 21.900 | 72 | .304 | | |
| Total | 1448.000 | 100 | | | |
| Corrected Total | 34.240 | 99 | | | |

a. R Squared = .360 (Adjusted R Squared = .121)

Homogeneous Subsets

Aroma

Duncan^{a,b}

| Sampel | N | Subset | |
|--------|----|--------|------|
| | | 1 | 2 |
| P3_890 | 25 | 3.44 | |
| P2_560 | 25 | | 3.80 |
| P0_330 | 25 | | 3.88 |
| P1_478 | 25 | | 3.92 |
| Sig. | | 1.000 | .474 |

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .304.

a. Uses Harmonic Mean Sample Size = 25.000.

b. Alpha = 0.05.

Lampiran 6. Hasil Uji Hedonik terhadap Aroma Rengginang Ubi Kayu Lele

| Panelis | Perlakuan | | | | Total |
|------------------|-------------|-------------|------------|-------------|--------------|
| | P0 | P1 | P2 | P3 | |
| | 330 | 478 | 560 | 890 | |
| 1 | 4 | 4 | 3 | 3 | 14 |
| 2 | 4 | 4 | 4 | 3 | 15 |
| 3 | 4 | 4 | 4 | 4 | 16 |
| 4 | 3 | 4 | 4 | 3 | 14 |
| 5 | 3 | 3 | 3 | 3 | 12 |
| 6 | 4 | 4 | 5 | 3 | 16 |
| 7 | 4 | 4 | 5 | 3 | 16 |
| 8 | 4 | 4 | 4 | 4 | 16 |
| 9 | 4 | 4 | 4 | 2 | 14 |
| 10 | 4 | 3 | 3 | 5 | 15 |
| 11 | 4 | 4 | 4 | 3 | 15 |
| 12 | 4 | 4 | 4 | 4 | 16 |
| 13 | 3 | 4 | 3 | 3 | 13 |
| 14 | 4 | 5 | 4 | 3 | 16 |
| 15 | 3 | 3 | 4 | 3 | 13 |
| 16 | 4 | 4 | 4 | 4 | 16 |
| 17 | 4 | 4 | 4 | 5 | 17 |
| 18 | 4 | 4 | 4 | 4 | 16 |
| 19 | 4 | 4 | 4 | 4 | 16 |
| 20 | 5 | 4 | 3 | 3 | 15 |
| 21 | 4 | 4 | 4 | 4 | 16 |
| 22 | 4 | 4 | 4 | 3 | 15 |
| 23 | 3 | 4 | 3 | 4 | 14 |
| 24 | 4 | 4 | 4 | 3 | 15 |
| 25 | 5 | 4 | 3 | 3 | 15 |
| Jumlah | 97 | 98 | 95 | 86 | 376 |
| Rata-Rata | 3.88 | 3.92 | 3.8 | 3.44 | 15.04 |

Lampiran 7. Hasil Uji Anova terhadap Rasa Rengginang Ubi Kayu Lele

ANOVA

Dependent Variable: Rasa

| Source | Type III Sum of Squares | df | Mean Square | F | Sig. |
|-----------------|-------------------------|-----|-------------|----------|------|
| Corrected Model | 20.770 ^a | 27 | .769 | 1.516 | .083 |
| Intercept | 1497.690 | 1 | 1497.690 | 2951.113 | .000 |
| Panelis | 11.060 | 24 | .461 | .908 | .591 |
| Sampel | 9.710 | 3 | 3.237 | 6.378 | .001 |
| Error | 36.540 | 72 | .508 | | |
| Total | 1555.000 | 100 | | | |
| Corrected Total | 57.310 | 99 | | | |

a. R Squared = .362 (Adjusted R Squared = .123)

Homogeneous Subsets

Rasa

Duncan^{a,b}

| Sampel | N | Subset | |
|--------|----|--------|------|
| | | 1 | 2 |
| P3_890 | 25 | 3.36 | |
| P0_330 | 25 | | 3.92 |
| P2_560 | 25 | | 4.00 |
| P1_478 | 25 | | 4.20 |
| Sig. | | 1.000 | .195 |

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .508.

a. Uses Harmonic Mean Sample Size = 25.000.

b. Alpha = 0.05.

Lampiran 8. Hasil Uji Hedonik terhadap Rasa Rengginang Ubi Kayu Lele

| Panelis | Perlakuan | | | | Total |
|------------------|-------------|------------|------------|-------------|--------------|
| | P0 | P1 | P2 | P3 | |
| | 330 | 478 | 560 | 890 | |
| 1 | 4 | 4 | 5 | 4 | 17 |
| 2 | 4 | 4 | 4 | 3 | 15 |
| 3 | 5 | 5 | 4 | 3 | 17 |
| 4 | 3 | 4 | 4 | 3 | 14 |
| 5 | 3 | 4 | 5 | 3 | 15 |
| 6 | 3 | 4 | 5 | 3 | 15 |
| 7 | 5 | 5 | 3 | 2 | 15 |
| 8 | 4 | 5 | 4 | 3 | 16 |
| 9 | 3 | 4 | 4 | 4 | 15 |
| 10 | 4 | 3 | 4 | 5 | 16 |
| 11 | 4 | 4 | 3 | 2 | 13 |
| 12 | 4 | 4 | 4 | 4 | 16 |
| 13 | 4 | 3 | 4 | 2 | 13 |
| 14 | 4 | 5 | 5 | 4 | 18 |
| 15 | 4 | 4 | 4 | 3 | 15 |
| 16 | 3 | 3 | 4 | 4 | 14 |
| 17 | 3 | 4 | 3 | 4 | 14 |
| 18 | 5 | 5 | 5 | 2 | 17 |
| 19 | 4 | 5 | 5 | 4 | 18 |
| 20 | 4 | 5 | 4 | 4 | 17 |
| 21 | 4 | 5 | 3 | 4 | 16 |
| 22 | 4 | 4 | 4 | 3 | 15 |
| 23 | 4 | 4 | 4 | 3 | 15 |
| 24 | 5 | 4 | 3 | 4 | 16 |
| 25 | 4 | 4 | 3 | 4 | 15 |
| Jumlah | 98 | 105 | 100 | 84 | 387 |
| Rata-Rata | 3.92 | 4.2 | 4 | 3.36 | 15.48 |

Lampiran 9. Hasil Uji Anova terhadap Tekstur Rengginang Ubi Kayu Lele

ANOVA

Dependent Variable: Tekstur

| Source | Type III Sum of Squares | df | Mean Square | F | Sig. |
|-----------------|-------------------------|-----|-------------|----------|------|
| Corrected Model | 56.240 ^a | 27 | 2.083 | 3.076 | .000 |
| Intercept | 1369.000 | 1 | 1369.000 | 2021.493 | .000 |
| Panelis | 27.000 | 24 | 1.125 | 1.661 | .052 |
| Sampel | 29.240 | 3 | 9.747 | 14.392 | .000 |
| Error | 48.760 | 72 | .677 | | |
| Total | 1474.000 | 100 | | | |
| Corrected Total | 105.000 | 99 | | | |

a. R Squared = .536 (Adjusted R Squared = .361)

Homogeneous Subsets

Tekstur

Duncan^{a,b}

| Sampel | N | Subset | |
|--------|----|--------|------|
| | | 1 | 2 |
| P3_890 | 25 | 2.80 | |
| P2_560 | 25 | | 3.76 |
| P0_330 | 25 | | 4.08 |
| P1_478 | 25 | | 4.16 |
| Sig. | | 1.000 | .109 |

Means for groups in homogeneous subsets are displayed.

Based on observed means.

The error term is Mean Square(Error) = .677.

a. Uses Harmonic Mean Sample Size = 25.000.

b. Alpha = 0.05.

Lampiran 10. Hasil Uji Hedonik terhadap Tekstur Rengginang Ubi Kayu Lele

| Panelis | Perlakuan | | | | Total |
|------------------|-------------|-------------|-------------|------------|-------------|
| | P0 | P1 | P2 | P3 | |
| | 330 | 478 | 560 | 890 | |
| 1 | 4 | 4 | 5 | 3 | 16 |
| 2 | 4 | 3 | 4 | 2 | 13 |
| 3 | 5 | 5 | 4 | 3 | 17 |
| 4 | 3 | 4 | 3 | 3 | 13 |
| 5 | 4 | 4 | 4 | 2 | 14 |
| 6 | 5 | 5 | 5 | 3 | 18 |
| 7 | 4 | 4 | 2 | 1 | 11 |
| 8 | 4 | 4 | 4 | 2 | 14 |
| 9 | 4 | 3 | 4 | 2 | 13 |
| 10 | 4 | 2 | 2 | 5 | 13 |
| 11 | 5 | 5 | 2 | 2 | 14 |
| 12 | 5 | 4 | 3 | 4 | 16 |
| 13 | 4 | 3 | 2 | 2 | 11 |
| 14 | 4 | 5 | 5 | 2 | 16 |
| 15 | 3 | 4 | 3 | 2 | 12 |
| 16 | 4 | 4 | 4 | 3 | 15 |
| 17 | 5 | 4 | 5 | 3 | 17 |
| 18 | 3 | 5 | 5 | 3 | 16 |
| 19 | 5 | 5 | 5 | 5 | 20 |
| 20 | 4 | 4 | 4 | 3 | 15 |
| 21 | 4 | 5 | 3 | 3 | 15 |
| 22 | 3 | 5 | 5 | 3 | 16 |
| 23 | 3 | 5 | 3 | 3 | 14 |
| 24 | 4 | 5 | 4 | 3 | 16 |
| 25 | 5 | 3 | 4 | 3 | 15 |
| Jumlah | 102 | 104 | 94 | 70 | 370 |
| Rata-Rata | 4.08 | 4.16 | 3.76 | 2.8 | 14.8 |

Lampiran 11. Dokumentasi



Ubi kayu



Ubi kayu dibersihkan



Ubi kayu diparut



Ubi kayu direndam



Ubi kayu diperas



Setelah diperas



Air rendaman ubi kayu



Pati dari ubi kayu



Daging ikan lele



Daging ikan lele di blender



Bawang putih diblender



Daging ikan lele, bawang putih, garam dan ubi kayu ditimbang



Campur semua bahan



Pencetakan



Pengukusan



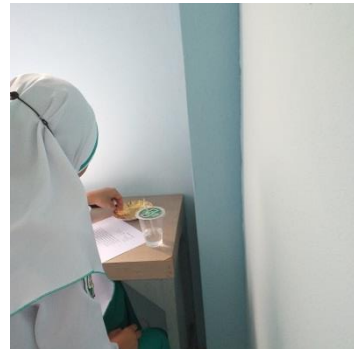
Setelah dicetak



Setelah dioven



Pengorengan



Lampiran 12. Surat Izin Penelitian

SURAT IZIN PENELITIAN

Kepada Yth,
Direktur Poltekkes Kemenkes Riau
Di Pekanbaru

Dengan Hormat,

Saya yang bertanda tangan dibawah ini :

Nama : Tri Anna Maria Hulu
NIM : P031913411039
No. Hp : 0823-9066-4693
Prodi : DIII Gizi
Judul Penelitian : Uji Tingkat Kesukaan Rengginang Ubi Kayu Dengan Penambahan Ikan Lele Dumbo
Tempat Penelitian : Laboratorium Pangan Politeknik Kesehatan Kemenkes Riau

Dengan ini mengajukan surat izin penelitian dengan judul penelitian yang telah disetujui oleh dosen pembimbing untuk memenuhi Tugas Akhir Jurusan Gizi Poltekkes Kemenkes Riau Tahun 2021/2022

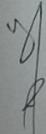
Demikian surat ini saya sampaikan atas izin Bapak saya ucapkan terima kasih.

Pekanbaru, 19 April 2022

Mengetahui,

Pembimbing Penelitian I

Mahasiswa



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NIM. P031913411039