

# LAMPIRAN

### Lampiran 1. Formulasi *Dim Sum*

| Standar Kebutuhan         | E (kkal) | P (g) | L (g) | KH (g) | Vit C (mg) | Zat Besi (mg) |
|---------------------------|----------|-------|-------|--------|------------|---------------|
|                           | 300      | 6     | 13    | 40     | 6,75       | 1,5           |
| Taraf Perlakuan (empiris) | E (kkal) | P (g) | L (g) | KH (g) | Vit C (mg) | Zat Besi (mg) |
| P0 (100 : 0 : 0)          | 208,0    | 12,8  | 8,4   | 19,9   | 3,5        | 1,0           |
| P1 (75 : 15 : 10)         | 207,3    | 12,3  | 8,0   | 21,2   | 4,2        | 2,0           |
| P2 (65 : 25 : 10)         | 208,1    | 13,6  | 7,6   | 22,4   | 4,8        | 2,0           |
| P3 (55 : 35 : 10)         | 208,8    | 13,6  | 7,5   | 22,3   | 4,9        | 2,2           |

Perhitungan nilai gizi *Dim Sum* ditentukan berdasarkan perhitungan empiris sesuai Tabel Komposisi Pangan Indonesia dengan metode *calculated value* yang dikoreksi dengan faktor kehilangan atau penambahan berat bahan makanan (*yield factor*) dan perubahan zat gizi (*retention factor*) akibat proses pengolahan.

## Lampiran 2. Formulir Uji Mutu Organoleptik

Uji Skala Kesukaan (*Hedonic Scale Test*)

Nama : Hariyanto  
Tanggal Uji : 18 Februari 2023  
Nama Produk : "Formulasi Dimsum Ikan Patin, Tepung Tempe, dan Daun Kelor sebagai PMT-AS (Analisis Mutu Gizi, Nilai Energi, dan Mutu Organoleptik)"

Kriteria mutu yang dinilai : Warna, aroma, rasa, dan tekstur

Instruksi :

Di hadapan saudara disajikan 4 buah contoh "Dimsum". Saudara diminta untuk memberikan penilaian terhadap warna, aroma, rasa, dan tekstur dengan menggunakan skala penilaian sebagai berikut:

1 = Sangat Tidak Suka                      3 = Suka  
2 = Tidak Suka                              4 = Sangat Suka

Setelah saudara mencicipi salah satu sampel, saudara diminta berkumur dengan air putih yang telah disediakan sebelum mencicipi sampel yang lain. Selain itu saudara juga diminta memberikan kritik dan saran.

| Kode Contoh | Kriteria Penilaian |       |      |         |
|-------------|--------------------|-------|------|---------|
|             | Warna              | Aroma | Rasa | Tekstur |
| 259         | 3                  | 3     | 4    | 4       |
| 714         | 3                  | 3     | 2    | 3       |
| 502         | 3                  | 3     | 2    | 3       |
| 825         | 3                  | 3     | 2    | 4       |

Kritik dan Saran:

Semangat penelitian dan olah data.

502 agak pahit dan bau tempe sekali.

Terimakasih Atas Partisipasinya ☺

### Lampiran 3. Data Penelitian

| Panelis          | Skor Penilaian Kesukaan |      |      |      | Panelis          | Skor Penilaian Kesukaan |      |      |      |
|------------------|-------------------------|------|------|------|------------------|-------------------------|------|------|------|
|                  | Warna                   |      |      |      |                  | Aroma                   |      |      |      |
|                  | P0                      | P1   | P2   | P3   |                  | P0                      | P1   | P2   | P3   |
| 1                | 4                       | 4    | 3    | 2    | 1                | 4                       | 4    | 2    | 1    |
| 2                | 4                       | 4    | 3    | 2    | 2                | 4                       | 4    | 3    | 2    |
| 3                | 4                       | 4    | 3    | 2    | 3                | 4                       | 3    | 2    | 1    |
| 4                | 2                       | 3    | 3    | 2    | 4                | 3                       | 2    | 2    | 2    |
| 5                | 2                       | 3    | 3    | 2    | 5                | 3                       | 2    | 2    | 2    |
| 6                | 4                       | 3    | 2    | 2    | 6                | 4                       | 3    | 2    | 2    |
| 7                | 4                       | 3    | 3    | 2    | 7                | 4                       | 3    | 2    | 3    |
| 8                | 4                       | 3    | 3    | 2    | 8                | 4                       | 3    | 2    | 2    |
| 9                | 4                       | 3    | 3    | 2    | 9                | 4                       | 3    | 2    | 3    |
| 10               | 4                       | 3    | 3    | 2    | 10               | 4                       | 3    | 3    | 2    |
| 11               | 4                       | 3    | 2    | 2    | 11               | 4                       | 3    | 3    | 2    |
| 12               | 4                       | 4    | 3    | 3    | 12               | 4                       | 4    | 3    | 2    |
| 13               | 4                       | 4    | 3    | 1    | 13               | 4                       | 3    | 2    | 2    |
| 14               | 4                       | 4    | 3    | 1    | 14               | 4                       | 3    | 2    | 2    |
| 15               | 4                       | 4    | 3    | 3    | 15               | 4                       | 4    | 3    | 2    |
| 16               | 3                       | 3    | 3    | 3    | 16               | 3                       | 3    | 3    | 3    |
| 17               | 3                       | 3    | 3    | 3    | 17               | 3                       | 3    | 3    | 3    |
| 18               | 4                       | 4    | 4    | 4    | 18               | 4                       | 4    | 4    | 4    |
| 19               | 4                       | 4    | 4    | 4    | 19               | 4                       | 4    | 4    | 4    |
| 20               | 4                       | 4    | 4    | 2    | 20               | 4                       | 4    | 4    | 2    |
| 21               | 4                       | 4    | 4    | 2    | 21               | 4                       | 4    | 4    | 2    |
| 22               | 4                       | 4    | 3    | 3    | 22               | 4                       | 4    | 3    | 2    |
| 23               | 4                       | 4    | 3    | 1    | 23               | 4                       | 3    | 2    | 2    |
| 24               | 4                       | 3    | 3    | 2    | 24               | 4                       | 3    | 2    | 3    |
| 25               | 4                       | 4    | 3    | 3    | 25               | 4                       | 4    | 3    | 2    |
| <b>Jumlah</b>    | 94                      | 89   | 77   | 57   | <b>Jumlah</b>    | 96                      | 83   | 67   | 57   |
| <b>Rata-rata</b> | 3,76                    | 3,56 | 3,08 | 2,28 | <b>Rata-rata</b> | 3,84                    | 3,32 | 2,68 | 2,28 |
| <b>Modus</b>     | 4                       | 4    | 3    | 2    | <b>Modus</b>     | 4                       | 3    | 2    | 2    |

| Panelis          | Skor Penilaian<br>Kesukaan |     |      |      | Panelis          | Skor Penilaian<br>Kesukaan |      |     |      |
|------------------|----------------------------|-----|------|------|------------------|----------------------------|------|-----|------|
|                  | Rasa                       |     |      |      |                  | Tekstur                    |      |     |      |
|                  | P0                         | P1  | P2   | P3   |                  | P0                         | P1   | P2  | P3   |
| 1                | 4                          | 3   | 3    | 1    | 1                | 4                          | 3    | 2   | 1    |
| 2                | 4                          | 3   | 2    | 1    | 2                | 4                          | 3    | 2   | 1    |
| 3                | 4                          | 3   | 3    | 1    | 3                | 4                          | 3    | 2   | 1    |
| 4                | 3                          | 3   | 2    | 2    | 4                | 4                          | 3    | 3   | 2    |
| 5                | 3                          | 3   | 2    | 2    | 5                | 4                          | 3    | 3   | 2    |
| 6                | 4                          | 3   | 3    | 2    | 6                | 4                          | 3    | 3   | 2    |
| 7                | 4                          | 3   | 2    | 3    | 7                | 4                          | 3    | 3   | 3    |
| 8                | 4                          | 3   | 3    | 2    | 8                | 4                          | 3    | 3   | 2    |
| 9                | 4                          | 2   | 2    | 3    | 9                | 4                          | 3    | 3   | 3    |
| 10               | 4                          | 3   | 3    | 2    | 10               | 4                          | 3    | 3   | 2    |
| 11               | 4                          | 3   | 3    | 2    | 11               | 4                          | 3    | 3   | 2    |
| 12               | 4                          | 3   | 2    | 2    | 12               | 4                          | 3    | 2   | 2    |
| 13               | 4                          | 4   | 2    | 1    | 13               | 4                          | 4    | 2   | 1    |
| 14               | 4                          | 4   | 3    | 1    | 14               | 4                          | 4    | 2   | 1    |
| 15               | 4                          | 3   | 2    | 1    | 15               | 4                          | 3    | 2   | 1    |
| 16               | 4                          | 3   | 3    | 3    | 16               | 3                          | 3    | 4   | 4    |
| 17               | 4                          | 2   | 2    | 2    | 17               | 4                          | 3    | 3   | 4    |
| 18               | 4                          | 4   | 4    | 4    | 18               | 4                          | 4    | 4   | 4    |
| 19               | 4                          | 4   | 4    | 4    | 19               | 4                          | 4    | 4   | 4    |
| 20               | 4                          | 4   | 4    | 2    | 20               | 4                          | 4    | 4   | 2    |
| 21               | 4                          | 4   | 4    | 2    | 21               | 4                          | 4    | 4   | 2    |
| 22               | 4                          | 3   | 2    | 2    | 22               | 4                          | 3    | 2   | 2    |
| 23               | 4                          | 4   | 2    | 1    | 23               | 4                          | 4    | 2   | 1    |
| 24               | 4                          | 3   | 2    | 3    | 24               | 4                          | 3    | 3   | 3    |
| 25               | 4                          | 3   | 2    | 2    | 25               | 4                          | 3    | 2   | 2    |
| <b>Jumlah</b>    | 98                         | 80  | 66   | 51   | <b>Jumlah</b>    | 99                         | 82   | 70  | 54   |
| <b>Rata-rata</b> | 3,92                       | 3,2 | 2,64 | 2,04 | <b>Rata-rata</b> | 3,96                       | 3,28 | 2,8 | 2,16 |
| <b>Modus</b>     | 4                          | 3   | 2    | 2    | <b>Modus</b>     | 4                          | 3    | 2   | 2    |

**Lampiran 4. Uji Statitik Kruskal Wallis pada Warna *Dim Sum* Kruskal-Wallis Test**

**Ranks**

|       | Perlakuan | N   | Mean Rank |
|-------|-----------|-----|-----------|
| Warna | P0_259    | 25  | 71.44     |
|       | P1_714    | 25  | 62.62     |
|       | P2_592    | 25  | 44.58     |
|       | P3_825    | 25  | 23.36     |
|       | Total     | 100 |           |

**Test Statistics<sup>a,b</sup>**

|             | Warna  |
|-------------|--------|
| Chi-Square  | 46.307 |
| df          | 3      |
| Asymp. Sig. | .000   |

**Mann-Whitney Test**

**Ranks**

|       | Perlakuan | N  | Mean Rank | Sum of Ranks |
|-------|-----------|----|-----------|--------------|
| Warna | P0_259    | 25 | 35.56     | 889.00       |
|       | P3_825    | 25 | 15.44     | 386.00       |
|       | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Warna   |
|------------------------|---------|
| Mann-Whitney U         | 61.000  |
| Wilcoxon W             | 386.000 |
| Z                      | -5.244  |
| Asymp. Sig. (2-tailed) | .000    |

**Ranks**

|       | Perlakuan | N  | Mean Rank | Sum of Ranks |
|-------|-----------|----|-----------|--------------|
| Warna | P0_259    | 25 | 28.56     | 714.00       |
|       | P1_714    | 25 | 22.44     | 561.00       |
|       | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Warna   |
|------------------------|---------|
| Mann-Whitney U         | 236.000 |
| Wilcoxon W             | 561.000 |
| Z                      | -1.856  |
| Asymp. Sig. (2-tailed) | .063    |

**Ranks**

|       | Perlakuan | N  | Mean Rank | Sum of Ranks |
|-------|-----------|----|-----------|--------------|
| Warna | P0_259    | 25 | 33.32     | 833.00       |
|       | P2_592    | 25 | 17.68     | 442.00       |
|       | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Warna   |
|------------------------|---------|
| Mann-Whitney U         | 117.000 |
| Wilcoxon W             | 442.000 |
| Z                      | -4.239  |
| Asymp. Sig. (2-tailed) | .000    |

**Ranks**

|       | Perlakuan | N  | Mean Rank | Sum of Ranks |
|-------|-----------|----|-----------|--------------|
| Warna | P1_714    | 25 | 35.24     | 881.00       |
|       | P3_825    | 25 | 15.76     | 394.00       |
|       | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Warna   |
|------------------------|---------|
| Mann-Whitney U         | 69.000  |
| Wilcoxon W             | 394.000 |
| Z                      | -4.963  |
| Asymp. Sig. (2-tailed) | .000    |

**Ranks**

|       | Perlakuan | N  | Mean Rank | Sum of Ranks |
|-------|-----------|----|-----------|--------------|
| Warna | P1_714    | 25 | 30.94     | 773.50       |
|       | P2_592    | 25 | 20.06     | 501.50       |
|       | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Warna   |
|------------------------|---------|
| Mann-Whitney U         | 176.500 |
| Wilcoxon W             | 501.500 |
| Z                      | -3.073  |
| Asymp. Sig. (2-tailed) | .002    |

**Ranks**

|       | Perlakuan | N  | Mean Rank | Sum of Ranks |
|-------|-----------|----|-----------|--------------|
| Warna | P2_592    | 25 | 32.84     | 821.00       |
|       | P3_825    | 25 | 18.16     | 454.00       |
|       | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Warna   |
|------------------------|---------|
| Mann-Whitney U         | 129.000 |
| Wilcoxon W             | 454.000 |
| Z                      | -3.883  |
| Asymp. Sig. (2-tailed) | .000    |



### Lampiran 5. Uji Statitik Kruskal Wallis pada Aroma *Dim Sum*

**Ranks**

|       | Perlakuan | N   | Mean Rank |
|-------|-----------|-----|-----------|
| Aroma | P0_259    | 25  | 76.56     |
|       | P1_714    | 25  | 59.16     |
|       | P2_592    | 25  | 38.80     |
|       | P3_825    | 25  | 27.48     |
|       | Total     | 100 |           |

**Test Statistics<sup>a,b</sup>**

|             | Aroma  |
|-------------|--------|
| Chi-Square  | 47.282 |
| df          | 3      |
| Asymp. Sig. | .000   |

### Mann-Whitney Test

**Ranks**

|       | Perlakuan | N  | Mean Rank | Sum of Ranks |
|-------|-----------|----|-----------|--------------|
| Aroma | P0_259    | 25 | 31.16     | 779.00       |
|       | P1_714    | 25 | 19.84     | 496.00       |
|       | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Aroma   |
|------------------------|---------|
| Mann-Whitney U         | 171.000 |
| Wilcoxon W             | 496.000 |
| Z                      | -3.230  |
| Asymp. Sig. (2-tailed) | .001    |

**Ranks**

|       | Perlakuan | N  | Mean Rank | Sum of Ranks |
|-------|-----------|----|-----------|--------------|
| Aroma | P0_259    | 25 | 34.96     | 874.00       |
|       | P2_592    | 25 | 16.04     | 401.00       |
|       | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Aroma   |
|------------------------|---------|
| Mann-Whitney U         | 76.000  |
| Wilcoxon W             | 401.000 |
| Z                      | -4.995  |
| Asymp. Sig. (2-tailed) | .000    |

**Ranks**

| Perlakuan    | N  | Mean Rank | Sum of Ranks |
|--------------|----|-----------|--------------|
| Aroma P0_259 | 25 | 36.44     | 911.00       |
| P3_825       | 25 | 14.56     | 364.00       |
| Total        | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Aroma   |
|------------------------|---------|
| Mann-Whitney U         | 39.000  |
| Wilcoxon W             | 364.000 |
| Z                      | -5.708  |
| Asymp. Sig. (2-tailed) | .000    |

**Ranks**

| Perlakuan    | N  | Mean Rank | Sum of Ranks |
|--------------|----|-----------|--------------|
| Aroma P1_714 | 25 | 31.26     | 781.50       |
| P2_592       | 25 | 19.74     | 493.50       |
| Total        | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Aroma   |
|------------------------|---------|
| Mann-Whitney U         | 168.500 |
| Wilcoxon W             | 493.500 |
| Z                      | -2.993  |
| Asymp. Sig. (2-tailed) | .003    |

**Ranks**

|       | Perlakuan | N  | Mean Rank | Sum of Ranks |
|-------|-----------|----|-----------|--------------|
| Aroma | P1_714    | 25 | 34.06     | 851.50       |
|       | P3_825    | 25 | 16.94     | 423.50       |
|       | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Aroma   |
|------------------------|---------|
| Mann-Whitney U         | 98.500  |
| Wilcoxon W             | 423.500 |
| Z                      | -4.394  |
| Asymp. Sig. (2-tailed) | .000    |

**Ranks**

|       | Perlakuan | N  | Mean Rank | Sum of Ranks |
|-------|-----------|----|-----------|--------------|
| Aroma | P2_592    | 25 | 29.02     | 725.50       |
|       | P3_825    | 25 | 21.98     | 549.50       |
|       | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Aroma   |
|------------------------|---------|
| Mann-Whitney U         | 224.500 |
| Wilcoxon W             | 549.500 |
| Z                      | -1.908  |
| Asymp. Sig. (2-tailed) | .056    |

**Lampiran 6. Uji Statitik Kruskal Wallis pada Rasa *Dim Sum***

**Ranks**

|      | Perlakuan | N   | Mean Rank |
|------|-----------|-----|-----------|
| Rasa | P0_259    | 25  | 79.86     |
|      | P1_714    | 25  | 56.46     |
|      | P2_592    | 25  | 39.96     |
|      | P3_825    | 25  | 25.72     |
|      | Total     | 100 |           |

**Test Statistics<sup>a,b</sup>**

|             | Rasa   |
|-------------|--------|
| Chi-Square  | 53.175 |
| df          | 3      |
| Asymp. Sig. | .000   |

**Mann-Whitney Test**

**Ranks**

|      | Perlakuan | N  | Mean Rank | Sum of Ranks |
|------|-----------|----|-----------|--------------|
| Rasa | P0_259    | 25 | 33.58     | 839.50       |
|      | P1_714    | 25 | 17.42     | 435.50       |
|      | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Rasa    |
|------------------------|---------|
| Mann-Whitney U         | 110.500 |
| Wilcoxon W             | 435.500 |
| Z                      | -4.564  |
| Asymp. Sig. (2-tailed) | .000    |

**Ranks**

|      | Perlakuan | N  | Mean Rank | Sum of Ranks |
|------|-----------|----|-----------|--------------|
| Rasa | P0_259    | 25 | 35.52     | 888.00       |
|      | P2_592    | 25 | 15.48     | 387.00       |
|      | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Rasa    |
|------------------------|---------|
| Mann-Whitney U         | 62.000  |
| Wilcoxon W             | 387.000 |
| Z                      | -5.376  |
| Asymp. Sig. (2-tailed) | .000    |

**Ranks**

| Perlakuan   | N  | Mean Rank | Sum of Ranks |
|-------------|----|-----------|--------------|
| Rasa P0_259 | 25 | 36.76     | 919.00       |
| P3_825      | 25 | 14.24     | 356.00       |
| Total       | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Rasa    |
|------------------------|---------|
| Mann-Whitney U         | 31.000  |
| Wilcoxon W             | 356.000 |
| Z                      | -5.900  |
| Asymp. Sig. (2-tailed) | .000    |

**Ranks**

| Perlakuan   | N  | Mean Rank | Sum of Ranks |
|-------------|----|-----------|--------------|
| Rasa P1_714 | 25 | 34.20     | 855.00       |
| P3_825      | 25 | 16.80     | 420.00       |
| Total       | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Rasa    |
|------------------------|---------|
| Mann-Whitney U         | 95.000  |
| Wilcoxon W             | 420.000 |
| Z                      | -4.434  |
| Asymp. Sig. (2-tailed) | .000    |

**Ranks**

|      | Perlakuan | N  | Mean Rank | Sum of Ranks |
|------|-----------|----|-----------|--------------|
| Rasa | P1_714    | 25 | 30.84     | 771.00       |
|      | P2_592    | 25 | 20.16     | 504.00       |
|      | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Rasa    |
|------------------------|---------|
| Mann-Whitney U         | 179.000 |
| Wilcoxon W             | 504.000 |
| Z                      | -2.806  |
| Asymp. Sig. (2-tailed) | .005    |

**Ranks**

|      | Perlakuan | N  | Mean Rank | Sum of Ranks |
|------|-----------|----|-----------|--------------|
| Rasa | P2_592    | 25 | 30.32     | 758.00       |
|      | P3_825    | 25 | 20.68     | 517.00       |
|      | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Rasa    |
|------------------------|---------|
| Mann-Whitney U         | 192.000 |
| Wilcoxon W             | 517.000 |
| Z                      | -2.526  |
| Asymp. Sig. (2-tailed) | .012    |

**Lampiran 7. Uji Statitik Kruskal Wallis pada Tekstur *Dim Sum***

**Ranks**

|         | Perlakuan | N   | Mean Rank |
|---------|-----------|-----|-----------|
| Tekstur | P0_259    | 25  | 79.06     |
|         | P1_714    | 25  | 54.58     |
|         | P2_592    | 25  | 41.10     |
|         | P3_825    | 25  | 27.26     |
|         | Total     | 100 |           |

**Test Statistics<sup>a,b</sup>**

|             | Tekstur |
|-------------|---------|
| Chi-Square  | 48.549  |
| df          | 3       |
| Asymp. Sig. | .000    |

**Mann-Whitney Test**

**Ranks**

|         | Perlakuan | N  | Mean Rank | Sum of Ranks |
|---------|-----------|----|-----------|--------------|
| Tekstur | P0_259    | 25 | 34.00     | 850.00       |
|         | P1_714    | 25 | 17.00     | 425.00       |
|         | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Tekstur |
|------------------------|---------|
| Mann-Whitney U         | 100.000 |
| Wilcoxon W             | 425.000 |
| Z                      | -4.903  |
| Asymp. Sig. (2-tailed) | .000    |

**Ranks**

|         | Perlakuan | N  | Mean Rank | Sum of Ranks |
|---------|-----------|----|-----------|--------------|
| Tekstur | P0_259    | 25 | 35.20     | 880.00       |
|         | P2_592    | 25 | 15.80     | 395.00       |
|         | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Tekstur |
|------------------------|---------|
| Mann-Whitney U         | 70.000  |
| Wilcoxon W             | 395.000 |
| Z                      | -5.305  |
| Asymp. Sig. (2-tailed) | .000    |

**Ranks**

|         | Perlakuan | N  | Mean Rank | Sum of Ranks |
|---------|-----------|----|-----------|--------------|
| Tekstur | P0_259    | 25 | 35.86     | 896.50       |
|         | P3_825    | 25 | 15.14     | 378.50       |
|         | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Tekstur |
|------------------------|---------|
| Mann-Whitney U         | 53.500  |
| Wilcoxon W             | 378.500 |
| Z                      | -5.581  |
| Asymp. Sig. (2-tailed) | .000    |

**Ranks**

|         | Perlakuan | N  | Mean Rank | Sum of Ranks |
|---------|-----------|----|-----------|--------------|
| Tekstur | P1_714    | 25 | 33.48     | 837.00       |
|         | P3_825    | 25 | 17.52     | 438.00       |
|         | Total     | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Tekstur |
|------------------------|---------|
| Mann-Whitney U         | 113.000 |
| Wilcoxon W             | 438.000 |
| Z                      | -4.075  |
| Asymp. Sig. (2-tailed) | .000    |

**Ranks**

|         | Perlakuan | N  | Mean Rank | Sum of Ranks |
|---------|-----------|----|-----------|--------------|
| Tekstur | P1_714    | 25 | 30.10     | 752.50       |
|         | P2_592    | 25 | 20.90     | 522.50       |
|         | Total     | 50 |           |              |



**Test Statistics<sup>a</sup>**

|                        | Tekstur |
|------------------------|---------|
| Mann-Whitney U         | 197.500 |
| Wilcoxon W             | 522.500 |
| Z                      | -2.490  |
| Asymp. Sig. (2-tailed) | .013    |

**Ranks**

| Perlakuan      | N  | Mean Rank | Sum of Ranks |
|----------------|----|-----------|--------------|
| Tekstur P2_592 | 25 | 30.40     | 760.00       |
| P3_825         | 25 | 20.60     | 515.00       |
| Total          | 50 |           |              |

**Test Statistics<sup>a</sup>**

|                        | Tekstur |
|------------------------|---------|
| Mann-Whitney U         | 190.000 |
| Wilcoxon W             | 515.000 |
| Z                      | -2.505  |
| Asymp. Sig. (2-tailed) | .012    |

## Lampiran 8. Dokumentasi Kegiatan Penelitian

