

**Lampiran 1a. Data Hasil Analisa Kadar Air *Nugget* Ayam Petelur Non-Produktif**
**a. Data Pengamatan Kadar Air (wb)**

| PERLAKUAN |    | ULANGAN |         |         |         | TOTAL     | RATA2    | $\bar{x}_A$ |
|-----------|----|---------|---------|---------|---------|-----------|----------|-------------|
| A         | B  | 1       | 2       | 3       | 4       | PERLAKUAN |          |             |
| A1        | B1 | 48.7932 | 53.6361 | 57.2824 | 56.4036 | 216.1153  | 54.02883 | 56.56211    |
|           | B2 | 50.1656 | 54.8017 | 59.0752 | 59.5417 | 223.5842  | 55.89605 |             |
|           | B3 | 55.7158 | 58.9424 | 61.949  | 62.4386 | 239.0458  | 59.76145 |             |
| A2        | B1 | 51.0104 | 51.2565 | 58.1537 | 56.6435 | 217.0641  | 54.26603 | 56.03941    |
|           | B2 | 50.4148 | 55.1171 | 56.4731 | 59.8024 | 221.8074  | 55.45185 |             |
|           | B3 | 53.6317 | 57.2962 | 62.7066 | 59.9669 | 233.6014  | 58.40035 |             |

**b. Analisis Sidik Ragam Kadar Air**

| sb. Ragam  | db | Jk       | KT       | F hit    | F tabel<br>$\alpha 0.05$ |
|------------|----|----------|----------|----------|--------------------------|
| rata2      | 1  | 76074.61 | 76074.61 |          |                          |
| tepung (A) | 1  | 1.639292 | 1.639292 | 0.113033 | 4.41                     |
| kons (B)   | 4  | 104.6444 | 26.1611  | 1.803873 | 2.93                     |
| galat      | 18 | 261.0493 | 14.50274 |          |                          |
| total      | 24 |          |          |          |                          |

# Lampiran 1b. Data Hasil Analisa Kadar Air Nugget Ayam Petelur Non-Produktif

## a. Data Pengamatan Kadar Air (wb)

| PERLAKUAN |    | ULANGAN |        |        |        | TOTAL     | RATA2    | $\bar{x}_A$ |
|-----------|----|---------|--------|--------|--------|-----------|----------|-------------|
| A         | B  | 1       | 2      | 3      | 4      | PERLAKUAN |          |             |
| A1        | B1 | 96.23   | 115.68 | 134.09 | 129.3  | 475.3     | 118.825  | 131.7383    |
|           | B2 | 100.68  | 120.17 | 144.35 | 147.1  | 512.3     | 128.075  |             |
|           | B3 | 125.23  | 139.01 | 162.81 | 166.21 | 593.26    | 148.315  |             |
| A2        | B1 | 104.15  | 104.27 | 138.97 | 131.06 | 478.45    | 119.6125 | 129.3208    |
|           | B2 | 101.68  | 124.91 | 129.76 | 149.18 | 505.53    | 126.3825 |             |
|           | B3 | 115.66  | 134.12 | 168.14 | 149.95 | 567.87    | 141.9675 |             |

## b. Analisis Sidik Ragam Kadar Air

| sb. Ragam  | db | Jk       | KT       | F hit    | F tabel<br>$\alpha 0.05$ |
|------------|----|----------|----------|----------|--------------------------|
| rata2      | 1  | 408911.3 | 408911.3 |          |                          |
| tepung (A) | 1  | 35.06584 | 35.06584 | 0.089164 | 4.41                     |
| kons (B)   | 4  | 2871.135 | 717.7838 | 1.825144 | 2.93                     |
| galat      | 18 | 7078.951 | 393.2751 |          |                          |
| total      | 24 |          |          |          |                          |

## Lampiran 2. Data Hasil Analisa Aw *Nugget* Ayam Petelur Non-Produktif

### a. Data Pengamatan Aw

| PERLAKUAN |    | ULANGAN |        |        |        | TOTAL     | RATA2    | $\bar{X}_A$ |
|-----------|----|---------|--------|--------|--------|-----------|----------|-------------|
| A         | B  | 1       | 2      | 3      | 4      | PERLAKUAN |          |             |
| A1        | B1 | 0.8705  | 0.915  | 0.9045 | 0.891  | 3.581     | 0.89525  | 0.905717    |
|           | B2 | 0.8865  | 0.911  | 0.9165 | 0.9201 | 3.6341    | 0.908525 |             |
|           | B3 | 0.8715  | 0.923  | 0.925  | 0.934  | 3.6535    | 0.913375 |             |
| A2        | B1 | 0.87    | 0.9255 | 0.9065 | 0.8815 | 3.5835    | 0.895875 | 0.9036      |
|           | B2 | 0.887   | 0.9205 | 0.9255 | 0.8917 | 3.6247    | 0.906175 |             |
|           | B3 | 0.872   | 0.9225 | 0.9095 | 0.931  | 3.635     | 0.90875  |             |

### b. Analisis Sidik Ragam Aw

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| sb. Ragam  | db | Jk       | KT       | F hit    | F tabel<br>$\alpha 0.05$ |
|------------|----|----------|----------|----------|--------------------------|
| rata2      | 1  | 19.64176 | 19.64176 |          |                          |
| tepung (A) | 1  | 2.69E-05 | 2.69E-05 | 0.052256 | 4.41                     |
| kons (B)   | 4  | 0.001076 | 0.000269 | 0.522758 | 2.93                     |
| galat      | 18 | 0.00926  | 0.000514 |          |                          |
| total      | 24 |          |          |          |                          |

**Lampiran 3. Data Hasil Analisa WHC *Nugget* Ayam Petelur Non-Produktif  
(sebelum pre-frying dan pembekuan)**

**a. Data Pengamatan WHC**

| PERLAKUAN |    | ULANGAN |       |       |       | TOTAL     | RATA2   | $\bar{X}_A$ |
|-----------|----|---------|-------|-------|-------|-----------|---------|-------------|
| A         | B  | 1       | 2     | 3     | 4     | PERLAKUAN |         |             |
| A1        | B1 | 33.98   | 36.17 | 35.51 | 40.07 | 145.73    | 36.4325 | 47.71833    |
|           | B2 | 49.02   | 51.76 | 55.11 | 53.34 | 209.23    | 52.3075 |             |
|           | B3 | 51.98   | 54.11 | 56.37 | 55.2  | 217.66    | 54.415  |             |
| A2        | B1 | 54.45   | 53.87 | 51.38 | 48.97 | 208.67    | 52.1675 | 59.26333    |
|           | B2 | 60.38   | 60.17 | 64.72 | 59.67 | 244.94    | 61.235  |             |
|           | B3 | 65      | 62.66 | 66.01 | 63.88 | 257.55    | 64.3875 |             |

**b. Analisis Sidik Ragam WHC**

| sb. Ragam  | db | Jk       | KT       | F hit    | F tabel<br>$\alpha 0.05$ |
|------------|----|----------|----------|----------|--------------------------|
| rata2      | 1  | 68670.46 | 68670.46 |          |                          |
| tepung (A) | 1  | 799.7222 | 799.7222 | 155.9323 | 4.41                     |
| kons (B)   | 4  | 1095.085 | 273.7712 | 53.38076 | 2.93                     |
| galat      | 18 | 92.3157  | 5.12865  |          |                          |
| total      | 24 |          |          |          |                          |

\*berbeda nyata

**c. Hasil Uji Beda Jarak Nyata WHC**

SE = 1.13233

| perlakuan  | rata2   | notasi | beda riil pada jarak P |          |
|------------|---------|--------|------------------------|----------|
|            |         |        | 2                      | 3        |
| A1,B1      | 36.4325 | a      | -                      |          |
| A1,B2      | 52.3075 | b      | 15.875                 |          |
| A1,B3      | 54.415  | b      | 2.1075                 | 17.9825  |
| A2,B1      | 52.1675 | x      | -                      |          |
| A2,B2      | 61.235  | y      | 9.0675                 |          |
| A2,B3      | 64.3875 | y      | 3.1525                 | 12.22    |
| P(0.05;18) |         |        | 2.97                   | 3.12     |
| DMRT=SE.P  |         |        | 3.363009               | 3.532858 |

Keterangan: Nilai rata-rata WHC yang didampingi huruf yang berbeda menunjukkan perbedaan yang nyata.

**Lampiran 4. Data Hasil Analisa WHC *Nugget* Ayam Petelur Non-Produktif  
(setelah *pre-frying* dan pembekuan)**

a. Data Pengamatan WHC

| PERLAKUAN |    | ULANGAN |       |       |       | TOTAL     | RATA2   | $\bar{X}_A$ |
|-----------|----|---------|-------|-------|-------|-----------|---------|-------------|
| A         | B  | 1       | 2     | 3     | 4     | PERLAKUAN |         |             |
| A1        | B1 | 24.63   | 27.14 | 22.18 | 30.18 | 104.13    | 26.0325 |             |
|           | B2 | 33.98   | 36.91 | 38.11 | 39.94 | 148.94    | 37.235  |             |
|           | B3 | 45      | 47.67 | 49.91 | 51.15 | 193.73    | 48.4325 | 37.23333    |
| A2        | B1 | 44      | 46.12 | 45.78 | 40.86 | 176.76    | 44.19   |             |
|           | B2 | 56.93   | 55.89 | 58.19 | 51.76 | 222.77    | 55.6925 |             |
|           | B3 | 58.25   | 60.64 | 64.09 | 59.82 | 242.8     | 60.7    | 53.5275     |

b. Analisis Sidik Ragam WHC

| sb. Ragam  | db | Jk       | KT       | F hit    | F tabel<br>$\alpha 0.05$ |
|------------|----|----------|----------|----------|--------------------------|
| rata2      | 1  | 49425.17 | 49425.17 |          |                          |
| tepung (A) | 1  | 1592.999 | 1592.999 | 212.5972 | 4.41                     |
| kons (B)   | 4  | 1576.804 | 394.2009 | 52.60894 | 2.93                     |
| galat      | 18 | 134.8747 | 7.49304  |          |                          |
| total      | 24 |          |          |          |                          |

\*berbeda nyata

c. Hasil Uji Beda Jarak Nyata WHC

SE = 1.36867

| perlakuan  | rata2   | notasi | beda nilai pada jarak P |          |
|------------|---------|--------|-------------------------|----------|
|            |         |        | 2                       | 3        |
| A1,B1      | 26.0325 | a      | -                       |          |
| A1,B2      | 37.235  | b      | 11.2025                 |          |
| A1,B3      | 48.4325 | c      | 11.1975                 | 22.4     |
| A2,B1      | 44.19   | x      | -                       |          |
| A2,B2      | 55.6925 | y      | 11.5025                 |          |
| A2,B3      | 60.7    | z      | 5.0075                  | 16.51    |
| P(0.05;18) |         |        | 2.97                    | 3.12     |
| DMRT=SE.P  |         |        | 4.064953                | 4.270253 |

Keterangan: Nilai rata-rata WHC yang didampingi huruf yang berbeda menunjukkan perbedaan yang nyata.

### Lampiran 5. Data Hasil Analisa Tekstur *Nugget* Ayam Petelur Non-Produktif

#### a. Data Pengamatan Tekstur

| PERLAKUAN |    | ULANGAN |       |       |        | TOTAL     | RATA2    | $\bar{x}_A$ |
|-----------|----|---------|-------|-------|--------|-----------|----------|-------------|
| A         | B  | 1       | 2     | 3     | 4      | PERLAKUAN |          |             |
| A1        | B1 | 28.25   | 30.25 | 35.2  | 34     | 127.7     | 31.925   |             |
|           | B2 | 25.25   | 23.75 | 25.8  | 22.7   | 97.5      | 24.375   |             |
|           | B3 | 24.5    | 18.25 | 17.8  | 18.18  | 78.73     | 19.6825  | 25.3275     |
| A2        | B1 | 20.86   | 16.5  | 21.5  | 20.28  | 79.14     | 19.785   |             |
|           | B2 | 16.14   | 7.5   | 12.67 | 13.428 | 49.738    | 12.4345  |             |
|           | B3 | 12.714  | 7     | 9.3   | 12.667 | 41.681    | 10.42025 | 14.21325    |

#### b. Analisis Sidik Ragam Tekstur

| sb. Ragam  | db | Jk       | KT       | F hit    | F tabel<br>$\alpha 0.05$ |
|------------|----|----------|----------|----------|--------------------------|
| rata2      | 1  | 9380.825 | 9380.825 |          |                          |
| tepung (A) | 1  | 741.1593 | 741.1593 | 91.42932 | 4.41                     |
| kons (B)   | 4  | 499.5819 | 124.8955 | 15.40709 | 2.93                     |
| galat      | 18 | 145.9145 | 8.106363 |          |                          |
| total      | 24 |          |          |          |                          |

\*berbeda nyata

#### c. Hasil Uji Beda Jarak Nyata Tekstur

SE = 1.42358

| perlakuan  | rata2   | notasi | beda riil pada jarak P |          |
|------------|---------|--------|------------------------|----------|
|            |         |        | 2                      | 3        |
| A1,B3      | 19.6825 | a      | -                      |          |
| A1,B2      | 24.375  | b      | 4.6925                 |          |
| A1,B1      | 31.925  | c      | 7.55                   | 12.2425  |
| A2,B3      | 10.4203 | x      | -                      |          |
| A2,B2      | 12.4345 | x      | 2.01425                |          |
| A2,B1      | 19.785  | y      | 7.3505                 | 9.36475  |
| P(0.05;18) |         |        | 2.97                   | 3.12     |
| DMRT=SE.P  |         |        | 4.228044               | 4.441581 |

Keterangan: Nilai rata-rata tekstur yang didampingi huruf yang berbeda menunjukkan perbedaan yang nyata.

### Lampiran 6. Data Hasil Analisa Kadar Protein *Nugget* Ayam Petelur Non-Produktif

#### a. Data Pengamatan Kadar Protein

| PERLAKUAN |    | ULANGAN |         |         |         | TOTAL     | RATA2    | $\bar{x}_A$ |
|-----------|----|---------|---------|---------|---------|-----------|----------|-------------|
| A         | B  | 1       | 2       | 3       | 4       | PERLAKUAN |          |             |
| A1        | B1 | 16.7858 | 15.7055 | 15.7481 | 15.7661 | 64.0055   | 16.00138 | 14.89703    |
|           | B2 | 15.8517 | 14.3191 | 15.1199 | 14.4396 | 59.7303   | 14.93258 |             |
|           | B3 | 14.4102 | 13.0978 | 14.5084 | 13.0121 | 55.0285   | 13.75713 |             |
| A3        | B1 | 14.8181 | 14.2283 | 15.2606 | 14.7444 | 59.0514   | 14.76285 | 12.93988    |
|           | B2 | 12.7146 | 11.5921 | 13.7905 | 12.1122 | 50.2094   | 12.55235 |             |
|           | B3 | 11.2447 | 11.0603 | 12.487  | 11.2258 | 46.0178   | 11.50445 |             |

#### b. Analisis Sidik Ragam Protein

| sb. Ragam  | db | Jk       | KT       | F hit    | F tabel<br>$\alpha 0.05$ |
|------------|----|----------|----------|----------|--------------------------|
| rata2      | 1  | 4649.361 | 4649.361 |          |                          |
| tepung (A) | 1  | 22.98242 | 22.98242 | 46.89146 | 4.41                     |
| kons (B)   | 4  | 32.21633 | 8.054083 | 16.4329  | 2.93                     |
| galat      | 18 | 8.822151 | 0.49012  |          |                          |
| total      | 24 |          |          |          |                          |

\*berbeda nyata

#### c. Hasil Uji Beda Jarak Nyata Kadar Protein

SE = 0.35004

| perlakuan  | rata2   | notasi | beda riil pada jarak P |          |
|------------|---------|--------|------------------------|----------|
|            |         |        | 2                      | 3        |
| A1,B3      | 13.7571 | a      | -                      |          |
| A1,B2      | 14.9326 | b      | 1.17545                |          |
| A1,B1      | 16.0014 | c      | 1.0688                 | 2.24425  |
| A2,B3      | 11.5045 | x      | -                      |          |
| A2,B2      | 12.5524 | y      | 1.0479                 |          |
| A2,B1      | 14.7629 | z      | 2.2105                 | 3.2584   |
| P(0.05;18) |         |        | 2.97                   | 3.12     |
| DMRT=SE.P  |         |        | 1.039627               | 1.092133 |

Keterangan: Nilai rata-rata kadar protein yang didampingi huruf yang berbeda menunjukkan perbedaan yang nyata.

**Lampiran 7. Data Hasil Uji Organoleptik Tekstur *Nugget* Ayam Petelur Non-Produktif**

**a. Data Pengamatan Uji Organoleptik Tekstur**

| no.           | 610          | 812        | 105          | 654          | 713          | 236          |
|---------------|--------------|------------|--------------|--------------|--------------|--------------|
| 1             | 6.4          | 5.3        | 3.8          | 6.5          | 4.5          | 5.8          |
| 2             | 2.1          | 2.7        | 2.7          | 2.8          | 3.1          | 3.2          |
| 3             | 5            | 7.5        | 7.5          | 8.8          | 5            | 2.5          |
| 4             | 3.6          | 6.4        | 8.5          | 2.6          | 6.1          | 8.7          |
| 5             | 5            | 6.3        | 6.3          | 7.5          | 7.5          | 5            |
| 6             | 4            | 1.5        | 6.8          | 1.7          | 8.8          | 5.3          |
| 7             | 4.2          | 6          | 1.2          | 5.4          | 3.6          | 1.7          |
| 8             | 5.4          | 6.2        | 5.3          | 5.4          | 5.5          | 4            |
| 9             | 7.5          | 5          | 6            | 8.2          | 1.5          | 3.8          |
| 10            | 6.4          | 3.7        | 5.9          | 6.9          | 6            | 6.7          |
| 11            | 6.5          | 7.5        | 3.8          | 2.5          | 5            | 5            |
| 12            | 9.8          | 5.1        | 9.8          | 2.6          | 0.1          | 0.1          |
| 13            | 7.2          | 7.2        | 3.9          | 2.2          | 3.1          | 3.2          |
| 14            | 5.8          | 4.7        | 8.3          | 6.2          | 3.3          | 4.6          |
| 15            | 6.1          | 3.7        | 8.7          | 3.9          | 3.7          | 1.2          |
| 16            | 4            | 5.5        | 4.4          | 6            | 8.2          | 6.8          |
| 17            | 5            | 5          | 5            | 5            | 6.1          | 5            |
| 18            | 7.9          | 9          | 7.1          | 7.9          | 5.4          | 3            |
| 19            | 7.5          | 7.5        | 7.5          | 7.5          | 7.5          | 5            |
| 20            | 3.6          | 5          | 5            | 3.6          | 6.2          | 2.5          |
| 21            | 1.6          | 7.5        | 3.7          | 3.7          | 3.6          | 2.5          |
| 22            | 5            | 5          | 6.3          | 6.3          | 3.6          | 0            |
| 23            | 4.1          | 4.1        | 4.1          | 3.6          | 3.9          | 4.7          |
| 24            | 4.7          | 7.2        | 9.4          | 6.3          | 4.6          | 5.8          |
| 25            | 7.5          | 7.5        | 9.7          | 7.5          | 5            | 7.5          |
| 26            | 6.6          | 7.8        | 7.9          | 7.7          | 5.8          | 5.3          |
| 27            | 6.3          | 6.8        | 8.1          | 9.3          | 7.1          | 8.1          |
| 28            | 7.9          | 5.6        | 7.2          | 6.7          | 5            | 4.7          |
| 29            | 2.5          | 10         | 2.5          | 2.5          | 7.5          | 8.3          |
| 30            | 3.4          | 4.6        | 5.9          | 5.2          | 4.6          | 3.7          |
| 31            | 6.3          | 8.7        | 6.3          | 10           | 7.5          | 2.5          |
| 32            | 8.4          | 8.7        | 0.9          | 8.1          | 8.9          | 6.4          |
| 33            | 7.5          | 5          | 10           | 10           | 7.5          | 5            |
| 34            | 5.7          | 6.2        | 6.2          | 6.8          | 4.2          | 5.4          |
| 35            | 4.7          | 5.2        | 4.8          | 4.4          | 7.3          | 8            |
| 36            | 4.2          | 8.2        | 8.9          | 6.9          | 9.6          | 5.9          |
| 37            | 7.2          | 4          | 0.8          | 9.3          | 9.7          | 9.8          |
| 38            | 10           | 7.5        | 7.5          | 5            | 5            | 10           |
| 39            | 4.2          | 5.4        | 5.9          | 6            | 4.3          | 2.7          |
| 40            | 3.9          | 7          | 3.3          | 2.8          | 7.1          | 3.3          |
| 41            | 6.8          | 2.9        | 2.9          | 9.3          | 6.2          | 5.5          |
| 42            | 8            | 6.3        | 3.2          | 5.2          | 5.5          | 6.8          |
| 43            | 3            | 2          | 7            | 7.8          | 1.3          | 9            |
| 44            | 3.1          | 1.9        | 4.5          | 7.1          | 3.6          | 8.1          |
| 45            | 5.3          | 3.7        | 6.6          | 4.5          | 5.4          | 7.8          |
| 46            | 5            | 5          | 10           | 5            | 10           | 10           |
| 47            | 1.2          | 3.7        | 5.4          | 3.9          | 7            | 8.5          |
| 48            | 8.2          | 5.7        | 6            | 3.6          | 9.2          | 7            |
| 49            | 8            | 5.3        | 5.6          | 3.5          | 7.9          | 6            |
| 50            | 3.8          | 5.7        | 4.1          | 5.5          | 4.6          | 5.7          |
| <b>jumlah</b> | <b>277.1</b> | <b>285</b> | <b>292.2</b> | <b>286.7</b> | <b>282.7</b> | <b>267.1</b> |
| <b>rata2</b>  | <b>5.542</b> | <b>5.7</b> | <b>5.844</b> | <b>5.734</b> | <b>5.654</b> | <b>5.342</b> |

## b. Analisa Sidik Ragam Uji Organoleptik Tekstur

## ANOVA

| sb. Ragam | db  | Jk       | KT       | F hit     | F tabel<br>$\alpha 0.05$ |
|-----------|-----|----------|----------|-----------|--------------------------|
| Perlakuan | 5   | 7.628    | 1.5256   | 0.3084939 | 2.244704                 |
| Galat     | 294 | 1453.923 | 4.945317 |           |                          |
| Total     | 299 | 1461.551 |          |           |                          |

keterangan :

|     |                                  |
|-----|----------------------------------|
| 610 | = konsentrasi tepung terigu 10%  |
| 812 | = konsentrasi tepung terigu 15%  |
| 105 | = konsentrasi tepung terigu 20%  |
| 654 | = konsentrasi tepung maizena 10% |
| 713 | = konsentrasi tepung maizena 15% |
| 236 | = konsentrasi tepung maizena 20% |

**Lampiran 8. Data Hasil Uji Organoleptik Rasa Nugget Ayam Petelur Non-Produktif**

**a. Data Pengamatan Uji Organoleptik Rasa**

| no.           | 610         | 812          | 105          | 654          | 713          | 236          |
|---------------|-------------|--------------|--------------|--------------|--------------|--------------|
| 1             | 7.1         | 6.9          | 6.3          | 4.5          | 3.6          | 7.8          |
| 2             | 5.2         | 8            | 7.6          | 7.9          | 7.2          | 7.2          |
| 3             | 1.3         | 7.5          | 5            | 8.8          | 7.5          | 5            |
| 4             | 5           | 6            | 3.5          | 5.7          | 7            | 8.5          |
| 5             | 5           | 5            | 6.3          | 6.3          | 3.7          | 3.7          |
| 6             | 6.8         | 4.1          | 3.3          | 1.6          | 8.6          | 9.4          |
| 7             | 6           | 1.3          | 3.1          | 5.8          | 6.7          | 4.1          |
| 8             | 5.6         | 4.4          | 3.5          | 5.4          | 5.9          | 4.4          |
| 9             | 7.5         | 5            | 3.6          | 8.6          | 6.3          | 3.9          |
| 10            | 7.3         | 6.8          | 4.3          | 3.1          | 8.1          | 7.8          |
| 11            | 8.8         | 6.2          | 6.3          | 2.5          | 7.1          | 4            |
| 12            | 5.1         | 5.3          | 9.8          | 2.7          | 0.2          | 0.2          |
| 13            | 4.6         | 5.3          | 5.4          | 6.3          | 5.2          | 4.6          |
| 14            | 9.6         | 4.2          | 8.6          | 6.7          | 2.2          | 4.4          |
| 15            | 6           | 3.4          | 6            | 3.7          | 3.8          | 6            |
| 16            | 3.5         | 2.8          | 5.4          | 6.3          | 8.5          | 7.1          |
| 17            | 6.2         | 6.2          | 7.1          | 5            | 7.5          | 7.5          |
| 18            | 6           | 9.3          | 7.2          | 8.4          | 7.6          | 5.7          |
| 19            | 6.3         | 7.5          | 6.3          | 5            | 7.5          | 6.3          |
| 20            | 5           | 3.7          | 5            | 3.7          | 5            | 3.7          |
| 21            | 6.3         | 7.5          | 2.5          | 2.5          | 5            | 2.5          |
| 22            | 1.5         | 1.5          | 5            | 5            | 5            | 6.4          |
| 23            | 4.5         | 4.8          | 4.1          | 5            | 3.6          | 5            |
| 24            | 7.2         | 4.5          | 9.4          | 5.2          | 5.3          | 5.9          |
| 25            | 7.5         | 7.5          | 10           | 5            | 2.5          | 5            |
| 26            | 8           | 8.4          | 5.5          | 8.4          | 6            | 6.8          |
| 27            | 7.9         | 8.7          | 8.2          | 9.1          | 8.7          | 8.8          |
| 28            | 7.5         | 5.8          | 8.3          | 7            | 5.3          | 8.9          |
| 29            | 7.5         | 2.5          | 5            | 7.5          | 8.7          | 3.6          |
| 30            | 4           | 5            | 5.5          | 7.1          | 6.5          | 7.6          |
| 31            | 6.3         | 8.6          | 3.7          | 7.5          | 5            | 2.5          |
| 32            | 8.8         | 6.4          | 1.4          | 8.1          | 8.9          | 9.3          |
| 33            | 7.5         | 5            | 5            | 10           | 10           | 5            |
| 34            | 3.6         | 2.8          | 4.2          | 5.7          | 4.5          | 8.1          |
| 35            | 4.2         | 7.1          | 4.8          | 4.2          | 7.2          | 8.1          |
| 36            | 2.1         | 8.1          | 9            | 7            | 9.6          | 5.8          |
| 37            | 7.5         | 2.5          | 0.7          | 8.8          | 9.6          | 9.6          |
| 38            | 7.5         | 2.5          | 7.5          | 5            | 7.5          | 0            |
| 39            | 4.2         | 3.6          | 6.8          | 6.8          | 6            | 8.2          |
| 40            | 3.9         | 6.6          | 2.8          | 2.1          | 8.1          | 3.7          |
| 41            | 2.9         | 4.6          | 7.2          | 8.3          | 3.4          | 6.6          |
| 42            | 9.3         | 6.5          | 4.3          | 7            | 3.4          | 8.2          |
| 43            | 1.3         | 5.5          | 7            | 8.1          | 6.1          | 8.7          |
| 44            | 3           | 7            | 8.6          | 9.6          | 7.9          | 9.8          |
| 45            | 4.2         | 1.7          | 6.4          | 2.2          | 6.8          | 7.2          |
| 46            | 2.5         | 2.5          | 7.5          | 10           | 7.5          | 10           |
| 47            | 8.5         | 4.1          | 1.2          | 3.7          | 5.8          | 8.4          |
| 48            | 1.3         | 0.9          | 6.9          | 3.3          | 8.6          | 4            |
| 49            | 0.9         | 1.6          | 6.1          | 3.3          | 8            | 3.2          |
| 50            | 1.7         | 4.7          | 1.3          | 4.1          | 5.6          | 5.9          |
| <b>jumlah</b> | <b>271</b>  | <b>257.4</b> | <b>279.5</b> | <b>294.6</b> | <b>315.3</b> | <b>304.1</b> |
| <b>rata2</b>  | <b>5.42</b> | <b>5.148</b> | <b>5.59</b>  | <b>5.892</b> | <b>6.306</b> | <b>6.082</b> |

## b. Analisa Sidik Ragam Uji Organoleptik Rasa

## ANOVA

| sb. Ragam | db  | Jk        | KT         | F hit     | F tabel<br>$\alpha 0.05$ |
|-----------|-----|-----------|------------|-----------|--------------------------|
| Perlakuan | 5   | 46.789367 | 9.35787333 | 1.7997222 | 2.244704                 |
| Galat     | 294 | 1528.6886 | 5.19962109 |           |                          |
| Total     | 299 | 1575.48   |            |           |                          |

keterangan :

|     |                                  |
|-----|----------------------------------|
| 610 | = konsentrasi tepung terigu 10%  |
| 812 | = konsentrasi tepung terigu 15%  |
| 105 | = konsentrasi tepung terigu 20%  |
| 654 | = konsentrasi tepung maizena 10% |
| 713 | = konsentrasi tepung maizena 15% |
| 236 | = konsentrasi tepung maizena 20% |

## Lampiran 9. Data dan Perhitungan Uji Pembobotan

### PERHITUNGAN UJI PEMBOBOTAN

Bobot Parameter:

1. Kadar Air : 5
2. Aw : 5
3. Tekstur : 20
4. WHC : 20
5. Protein : 10
6. Organoleptik tekstur : 20
7. Organoleptik rasa : 20

### Penentuan Perlakuan Terbaik

1. Penentuan h dan hp
  - a. Perhitungan nilai untuk kadar air

Terbaik adalah kadar air terbesar yaitu A1B3 = 59,76% sehingga diberi nilai tertinggi,  $h_a = 9,00$  dan  $h_p = 9,00 \times 5 = 45$ . Perhitungan nilai untuk perlakuan yang lain seperti contoh berikut:

$$A1B2 = 55,84\%$$

$$h_a = 9 - \frac{|59,76 - 55,84|}{59,76} \times 9 = 80,41$$

$$h_p = 80,41 \times 5 = 405$$

b. Perhitungan nilai untuk Aw

Terbaik adalah Aw terkecil yaitu  $A1B1 = 0,89$  sehingga diberi nilai tertinggi,  $hb = 9,00$  dan  $hbp = 9,00 \times 5 = 45$ . Perhitungan nilai untuk perlakuan yang lain seperti contoh berikut:

$$A1B2 = 0,91$$

$$hb = 9 - \frac{|0,89 - 0,91|}{0,89} \times 9 = 80,87$$

$$hbp = 80,87 \times 5 = 404,35$$

c. Perhitungan nilai untuk tekstur

Terbaik adalah tekstur terkecil yaitu  $A1B3 = 19,68$  sehingga diberi nilai tertinggi,  $hc = 9,00$  dan  $hcp = 9,00 \times 20 = 180$ . Perhitungan nilai untuk perlakuan yang lain seperti contoh berikut:

$$A1B2 = 24,38$$

$$hc = 9 - \frac{|19,68 - 24,38|}{19,68} \times 9 = 78,85$$

$$hcp = 78,85 \times 20 = 1577,01$$

d. Perhitungan nilai untuk WHC

Terbaik adalah WHC terbesar yaitu  $A1B3 = 48,43$  sehingga diberi nilai tertinggi,  $hd = 9,00$  dan  $hdp = 9,00 \times 20 = 180$ . Perhitungan nilai untuk perlakuan yang lain seperti contoh berikut:

$$A1B2 = 37,24$$

$$hd = 9 - \frac{|48,43 - 37,24|}{48,43} \times 9 = 78,92$$

$$hdp = 78,92 \times 20 = 1578,4$$

e. Perhitungan nilai untuk kadar protein

Terbaik adalah kadar protein terbesar yaitu A1B1 = 16% sehingga diberi nilai tertinggi,  $he = 9,00$  dan  $hep = 9,00 \times 10 = 90$ . Perhitungan nilai untuk perlakuan yang lain seperti contoh berikut:

$$A1B2 = 14,93 \%$$

$$he = 9 - \frac{|16 - 14,93|}{16} \times 9 = 80,4$$

$$hep = 80,4 \times 10 = 804$$

f. Perhitungan nilai untuk uji organoleptik tekstur

Terbaik adalah nilai uji organoleptik terbesar yaitu A1B3 = 5,844 sehingga diberi nilai tertinggi,  $hf = 9,00$  dan  $hfp = 9,00 \times 20 = 180$ . Perhitungan nilai untuk perlakuan yang lain seperti contoh berikut:

$$A1B2 = 5,7$$

$$Hf = 9 - \frac{|5,844 - 5,7|}{5,844} \times 9 = 80,78$$

$$hfp = 80,78 \times 20 = 1610,8$$

g. Perhitungan nilai untuk uji organoleptik rasa

Terbaik adalah nilai uji organoleptik terbesar yaitu A1B3 = 5,59 sehingga diberi nilai tertinggi,  $hg = 9,00$  dan  $hgp = 9,00 \times 20 = 180$ . Perhitungan nilai untuk perlakuan yang lain seperti contoh berikut:

$$A1B2 = 5,15$$

$$hg = 9 - \frac{|5,59 - 5,15|}{5,59} \times 9 = 80,29$$

$$hgp = 80,29 \times 20 = 1605,8$$

## 2. Penentuan nilai akhir

Nilai akhir dari tiap perlakuan dapat diperoleh dengan rumus:

Nilai akhir = Jumlah dari nilai tiap perlakuan / 100

$$= (\text{hap} + \text{hbp} + \text{hcp} - \text{hdp} + \text{hep} + \text{hfp} + \text{hgp}) / 100$$

Contoh perhitungan:

$$\begin{aligned} \text{A1B2} &= (80,41 + 80,87 + 78,75 + 78,92 + 80,78 + 80,29) / 100 \\ &= 79,87 \end{aligned}$$

## HASIL PERHITUNGAN UJI PEMBOBOTAN

### NUGGET DAGING AYAM PETELUR NON-PRODUKTIF

| Perla-<br>kuan | Kadar Air |        | Aw    |        | Tekstur |        | WHC   |        | Kadar Protein |       | Organoleptik Tekstur |        | Organoleptik Rasa |        | Nilai Akhir |
|----------------|-----------|--------|-------|--------|---------|--------|-------|--------|---------------|-------|----------------------|--------|-------------------|--------|-------------|
|                | ha        | hap    | hb    | hbp    | hc      | hcp    | hd    | hdp    | he            | hep   | hf                   | hfp    | hg                | hgp    |             |
| A1B1           | 80,14     | 400,68 | 81    | 405    | 75,40   | 1508   | 76,84 | 1536,8 | 81            | 810   | 80,54                | 1610,8 | 80,73             | 1614,6 | 79,38       |
| A1B2           | 80,41     | 402,05 | 80,87 | 404,35 | 78,85   | 1577   | 78,92 | 1578,4 | 80,4          | 804   | 80,78                | 1615,6 | 80,29             | 1605,8 | 79,87       |
| A1B3*          | 81        | 405    | 80,82 | 404,08 | 81      | 1620   | 81    | 1620   | 79,74         | 797,4 | 81                   | 1620   | 81                | 1620   | 80,79       |
| A2B1           | 80,36     | 401,82 | 81    | 405    | 72,92   | 1458,4 | 78,55 | 1571   | 81            | 810   | 81                   | 1620   | 80,40             | 1608   | 79,32       |
| A2B2           | 80,54     | 402,73 | 80,9  | 404,5  | 79,26   | 1585,2 | 80,26 | 1605,2 | 79,65         | 796,5 | 80,87                | 1617,4 | 81                | 1620   | 80,32       |
| A2B3*          | 81        | 405    | 80,87 | 404,35 | 81      | 1620   | 81    | 1620   | 79,01         | 790,1 | 80,39                | 1607,8 | 80,67             | 1613,4 | 80,56       |

Keterangan : \* adalah perlakuan terbaik untuk masing-masing jenis bahan pengisi

