

## LAMPIRAN

### Lampiran 1. Hasil Analisa SPSS

#### ● Uji Normalitas

##### Tests of Normality

| perlakuan    | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|--------------|---------------------------------|----|-------|--------------|----|------|
|              | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| kadar air F0 | ,136                            | 9  | ,200* | ,959         | 9  | ,792 |
| F1           | ,156                            | 9  | ,200* | ,939         | 9  | ,566 |
| F2           | ,208                            | 9  | ,200* | ,905         | 9  | ,280 |
| F3           | ,213                            | 9  | ,200* | ,871         | 9  | ,126 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

##### Tests of Normality

| perlakuan    | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|--------------|---------------------------------|----|-------|--------------|----|------|
|              | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| kadar abu F0 | ,209                            | 9  | ,200* | ,952         | 9  | ,717 |
| F1           | ,135                            | 9  | ,200* | ,949         | 9  | ,683 |
| F2           | ,199                            | 9  | ,200* | ,876         | 9  | ,141 |
| F3           | ,155                            | 9  | ,200* | ,940         | 9  | ,585 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

##### Tests of Normality

| perlakuan        | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|------------------|---------------------------------|----|-------|--------------|----|------|
|                  | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| kadar protein F0 | ,169                            | 9  | ,200* | ,976         | 9  | ,943 |
| F1               | ,115                            | 9  | ,200* | ,960         | 9  | ,796 |
| F2               | ,126                            | 9  | ,200* | ,982         | 9  | ,975 |
| F3               | ,241                            | 9  | ,141  | ,909         | 9  | ,307 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

##### Tests of Normality

| perlakuan      | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|----------------|---------------------------------|----|-------|--------------|----|------|
|                | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| kadar lemak F0 | ,310                            | 9  | ,013  | ,850         | 9  | ,075 |
| F1             | ,179                            | 9  | ,200* | ,920         | 9  | ,395 |
| F2             | ,232                            | 9  | ,176  | ,835         | 9  | ,051 |
| F3             | ,260                            | 9  | ,080  | ,860         | 9  | ,097 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

#### Tests of Normality

| perlakuan          |    | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|--------------------|----|---------------------------------|----|-------|--------------|----|------|
|                    |    | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| kadar serat pangan | F0 | ,181                            | 9  | ,200* | ,962         | 9  | ,817 |
|                    | F1 | ,198                            | 9  | ,200* | ,940         | 9  | ,583 |
|                    | F2 | ,181                            | 9  | ,200* | ,931         | 9  | ,487 |
|                    | F3 | ,202                            | 9  | ,200* | ,851         | 9  | ,077 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

#### Tests of Normality

| perlakuan      |    | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|----------------|----|---------------------------------|----|-------|--------------|----|------|
|                |    | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| kadar zat besi | F0 | ,171                            | 9  | ,200* | ,956         | 9  | ,760 |
|                | F1 | ,162                            | 9  | ,200* | ,949         | 9  | ,676 |
|                | F2 | ,235                            | 9  | ,163  | ,863         | 9  | ,104 |
|                | F3 | ,192                            | 9  | ,200* | ,957         | 9  | ,770 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

#### Tests of Normality

| perlakuan |    | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|-----------|----|---------------------------------|----|-------|--------------|----|------|
|           |    | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| nilai L   | F0 | ,107                            | 9  | ,200* | ,972         | 9  | ,915 |
|           | F1 | ,194                            | 9  | ,200* | ,956         | 9  | ,755 |
|           | F2 | ,177                            | 9  | ,200* | ,919         | 9  | ,382 |
|           | F3 | ,110                            | 9  | ,200* | ,970         | 9  | ,896 |
| nilai a   | F0 | ,268                            | 9  | ,062  | ,856         | 9  | ,087 |
|           | F1 | ,253                            | 9  | ,099  | ,899         | 9  | ,248 |
|           | F2 | ,161                            | 9  | ,200* | ,925         | 9  | ,433 |
|           | F3 | ,167                            | 9  | ,200* | ,913         | 9  | ,335 |
| nilai b   | F0 | ,230                            | 9  | ,186  | ,896         | 9  | ,229 |
|           | F1 | ,235                            | 9  | ,162  | ,870         | 9  | ,123 |
|           | F2 | ,204                            | 9  | ,200* | ,930         | 9  | ,486 |
|           | F3 | ,164                            | 9  | ,200* | ,955         | 9  | ,742 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

#### Tests of Normality

| perlakuan |    | Kolmogorov-Smirnov <sup>a</sup> |    |       | Shapiro-Wilk |    |      |
|-----------|----|---------------------------------|----|-------|--------------|----|------|
|           |    | Statistic                       | df | Sig.  | Statistic    | df | Sig. |
| hardness  | F0 | ,207                            | 9  | ,200* | ,847         | 9  | ,070 |
|           | F1 | ,203                            | 9  | ,200* | ,865         | 9  | ,107 |
|           | F2 | ,199                            | 9  | ,200* | ,882         | 9  | ,165 |
|           | F3 | ,296                            | 9  | ,022  | ,834         | 9  | ,050 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

### Tests of Normality

| perlakuan      | Kolmogorov-Smirnov <sup>a</sup> |      |      | Shapiro-Wilk |      |      |      |
|----------------|---------------------------------|------|------|--------------|------|------|------|
|                | Statistic                       | df   | Sig. | Statistic    | df   | Sig. |      |
| % pengembangan | F0                              | ,208 | 9    | ,200*        | ,876 | 9    | ,141 |
|                | F1                              | ,173 | 9    | ,200*        | ,966 | 9    | ,854 |
|                | F2                              | ,198 | 9    | ,200*        | ,914 | 9    | ,347 |
|                | F3                              | ,196 | 9    | ,200*        | ,925 | 9    | ,434 |

\*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

## ● Uji Homogenitas

### Test of Homogeneity of Variances

|                    | Levene Statistic | df1 | df2 | Sig. |
|--------------------|------------------|-----|-----|------|
| kadar air          | 1,115            | 3   | 32  | ,357 |
| kadar abu          | ,435             | 3   | 32  | ,730 |
| kadar protein      | 1,611            | 3   | 32  | ,206 |
| kadar serat pangan | ,099             | 3   | 32  | ,960 |
| kadar zat besi     | 1,940            | 3   | 32  | ,143 |

### Test of Homogeneity of Variances

|                   | Levene Statistic | df1 | df2 | Sig. |
|-------------------|------------------|-----|-----|------|
| kadar lemak       | 7,807            | 3   | 32  | ,000 |
| kadar karbohidrat | 7,190            | 3   | 32  | ,001 |

### Test of Homogeneity of Variances

|         | Levene Statistic | df1 | df2 | Sig. |
|---------|------------------|-----|-----|------|
| nilai L | 1,217            | 3   | 32  | ,320 |
| nilai a | 1,743            | 3   | 32  | ,178 |
| nilai b | ,443             | 3   | 32  | ,724 |

### Test of Homogeneity of Variances

% pengembangan

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 2,370            | 3   | 32  | ,089 |

### Test of Homogeneity of Variances

hardness

| Levene Statistic | df1 | df2 | Sig. |
|------------------|-----|-----|------|
| 5,191            | 3   | 32  | ,005 |

| Uji Homogenitas Manual |               |                              |  |
|------------------------|---------------|------------------------------|--|
| Parameter              | Levene Hitung | Levene Tabel<br>(0,05; df 3) | Kesimpulan   |
| Kadar Lemak            | 0,946         | 2,901                        | Levene Hitung < Levene Tabel, maka <b>Variance Homogen</b> |
| Kadar Karbohidrat      | 2,233         | 2,901                        | Levene Hitung < Levene Tabel, maka <b>Variance Homogen</b> |

### ● Uji One-Way ANOVA

#### ANOVA

|                    |                | Sum of Squares | df | Mean Square | F       | Sig. |
|--------------------|----------------|----------------|----|-------------|---------|------|
| kadar air          | Between Groups | 1,815          | 3  | ,605        | 3,628   | ,023 |
|                    | Within Groups  | 5,337          | 32 | ,167        |         |      |
|                    | Total          | 7,152          | 35 |             |         |      |
| kadar abu          | Between Groups | 2,154          | 3  | ,718        | 24,329  | ,000 |
|                    | Within Groups  | ,945           | 32 | ,030        |         |      |
|                    | Total          | 3,099          | 35 |             |         |      |
| kadar protein      | Between Groups | 74,530         | 3  | 24,843      | 166,895 | ,000 |
|                    | Within Groups  | 4,763          | 32 | ,149        |         |      |
|                    | Total          | 79,293         | 35 |             |         |      |
| kadar lemak        | Between Groups | 49,611         | 3  | 16,537      | 13,059  | ,000 |
|                    | Within Groups  | 40,524         | 32 | 1,266       |         |      |
|                    | Total          | 90,135         | 35 |             |         |      |
| kadar karbohidrat  | Between Groups | 300,406        | 3  | 100,135     | 123,173 | ,000 |
|                    | Within Groups  | 26,015         | 32 | ,813        |         |      |
|                    | Total          | 326,421        | 35 |             |         |      |
| kadar serat pangan | Between Groups | 5062,947       | 3  | 1687,649    | 77,218  | ,000 |
|                    | Within Groups  | 699,384        | 32 | 21,856      |         |      |
|                    | Total          | 5762,331       | 35 |             |         |      |
| kadar zat besi     | Between Groups | 997,001        | 3  | 332,334     | 82,436  | ,000 |
|                    | Within Groups  | 129,005        | 32 | 4,031       |         |      |
|                    | Total          | 1126,007       | 35 |             |         |      |

## ANOVA

|         |                | Sum of Squares | df | Mean Square | F        | Sig. |
|---------|----------------|----------------|----|-------------|----------|------|
| nilai L | Between Groups | 3711,980       | 3  | 1237,327    | 405,846  | ,000 |
|         | Within Groups  | 97,560         | 32 | 3,049       |          |      |
|         | Total          | 3809,540       | 35 |             |          |      |
| nilai a | Between Groups | 16349,109      | 3  | 5449,703    | 8770,697 | ,000 |
|         | Within Groups  | 19,883         | 32 | ,621        |          |      |
|         | Total          | 16368,992      | 35 |             |          |      |
| nilai b | Between Groups | 43,404         | 3  | 14,468      | 7,277    | ,001 |
|         | Within Groups  | 63,626         | 32 | 1,988       |          |      |
|         | Total          | 107,030        | 35 |             |          |      |

## ANOVA

% pengembangan

|                | Sum of Squares | df | Mean Square | F     | Sig. |
|----------------|----------------|----|-------------|-------|------|
| Between Groups | 14871,813      | 3  | 4957,271    | 1,764 | ,174 |
| Within Groups  | 89946,301      | 32 | 2810,822    |       |      |
| Total          | 104818,1       | 35 |             |       |      |

## ● Uji Duncan

kadar air

| perlakuan | N | Subset for alpha = .05 |        |
|-----------|---|------------------------|--------|
|           |   | 1                      | 2      |
| F0        | 9 | 4,1498                 |        |
| F2        | 9 |                        | 4,5816 |
| F3        | 9 |                        | 4,6076 |
| F1        | 9 |                        | 4,7506 |
| Sig.      |   | 1,000                  | ,415   |

Means for groups in homogeneous subsets are displayed.  
a. Uses Harmonic Mean Sample Size = 9,000.

kadar abu

| perlakuan | N | Subset for alpha = .05 |        |
|-----------|---|------------------------|--------|
|           |   | 1                      | 2      |
| F0        | 9 | 2,3136                 |        |
| F3        | 9 |                        | 2,7977 |
| F2        | 9 |                        | 2,8945 |
| F1        | 9 |                        | 2,9154 |
| Sig.      |   | 1,000                  | ,179   |

Means for groups in homogeneous subsets are displayed.  
a. Uses Harmonic Mean Sample Size = 9,000.

kadar protein

| perlakuan | N | Subset for alpha = .05 |        |        |        |
|-----------|---|------------------------|--------|--------|--------|
|           |   | 1                      | 2      | 3      | 4      |
| F0        | 9 | 3,7855                 |        |        |        |
| F2        | 9 |                        | 6,6642 |        |        |
| F3        | 9 |                        |        | 7,0515 |        |
| F1        | 9 |                        |        |        | 7,4308 |
| Sig.      |   | 1,000                  | 1,000  | 1,000  | 1,000  |

Means for groups in homogeneous subsets are displayed.  
a. Uses Harmonic Mean Sample Size = 9,000.

kadar lemak

| perlakuan | N | Subset for alpha = .05 |         |
|-----------|---|------------------------|---------|
|           |   | 1                      | 2       |
| F0        | 9 | 27,3430                |         |
| F2        | 9 | 28,1252                |         |
| F3        | 9 | 28,4555                |         |
| F1        | 9 |                        | 30,5200 |
| Sig.      |   | ,055                   | 1,000   |

Means for groups in homogeneous subsets are displayed.  
a. Uses Harmonic Mean Sample Size = 9,000.

**kadar serat pangan**Duncan<sup>a</sup>

| perlakuan | N | Subset for alpha = .05 |         |         |
|-----------|---|------------------------|---------|---------|
|           |   | 1                      | 2       | 3       |
| F0        | 9 | 31,4299                |         |         |
| F1        | 9 |                        | 49,3093 |         |
| F3        | 9 |                        | 49,7466 |         |
| F2        | 9 |                        |         | 64,9147 |
| Sig.      |   | 1,000                  | ,844    | 1,000   |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

**kadar karbohidrat**Duncan<sup>a</sup>

| perlakuan | N | Subset for alpha = .05 |         |         |
|-----------|---|------------------------|---------|---------|
|           |   | 1                      | 2       | 3       |
| F1        | 9 | 54,3832                |         |         |
| F3        | 9 |                        | 57,0878 |         |
| F2        | 9 |                        | 57,7344 |         |
| F0        | 9 |                        |         | 62,4081 |
| Sig.      |   | 1,000                  | ,138    | 1,000   |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

**kadar zat besi**Duncan<sup>a</sup>

| perlakuan | N | Subset for alpha = .05 |         |
|-----------|---|------------------------|---------|
|           |   | 1                      | 2       |
| F0        | 9 | 7,3025                 |         |
| F3        | 9 | 8,8139                 |         |
| F2        | 9 | 9,3251                 |         |
| F1        | 9 |                        | 20,5119 |
| Sig.      |   | ,050                   | 1,000   |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

**nilai L**Duncan<sup>a</sup>

| perlakuan | N | Subset for alpha = .05 |         |         |         |
|-----------|---|------------------------|---------|---------|---------|
|           |   | 1                      | 2       | 3       | 4       |
| F1        | 9 | 49,2544                |         |         |         |
| F2        | 9 |                        | 51,1756 |         |         |
| F3        | 9 |                        |         | 56,7511 |         |
| F0        | 9 |                        |         |         | 74,9656 |
| Sig.      |   | 1,000                  | 1,000   | 1,000   | 1,000   |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

**nilai a**Duncan<sup>a</sup>

| perlakuan | N | Subset for alpha = .05 |          |          |         |
|-----------|---|------------------------|----------|----------|---------|
|           |   | 1                      | 2        | 3        | 4       |
| F1        | 9 | -41,1700               |          |          |         |
| F2        | 9 |                        | -38,6833 |          |         |
| F3        | 9 |                        |          | -34,5111 |         |
| F0        | 9 |                        |          |          | 10,7856 |
| Sig.      |   | 1,000                  | 1,000    | 1,000    | 1,000   |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

**nilai b**Duncan<sup>a</sup>

| perlakuan | N | Subset for alpha = .05 |         |         |
|-----------|---|------------------------|---------|---------|
|           |   | 1                      | 2       | 3       |
| F2        | 9 | 29,3600                |         |         |
| F1        | 9 | 29,6633                | 29,6633 |         |
| F3        | 9 |                        | 30,9133 | 30,9133 |
| F0        | 9 |                        |         | 32,1289 |
| Sig.      |   | ,651                   | ,069    | ,077    |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

**%pengembangan**Duncan<sup>a</sup>

| perlakuan | N | Subset for alpha = .05 |
|-----------|---|------------------------|
|           |   | 1                      |
| F2        | 9 | 265,5012               |
| F1        | 9 | 290,3216               |
| F3        | 9 | 311,9660               |
| F0        | 9 | 316,8614               |
| Sig.      |   | ,068                   |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

● Uji Independent T-Test Unequal Variances

Independent Samples Test

|          |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |        |                 |                 |                       |   |           |
|----------|-----------------------------|---|------|------------------------------|--------|-----------------|-----------------|-----------------------|---|-----------|
|          |                             | F                                       | Sig. | t                            | df     | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |           |
|          |                             |   |      |                              |        |                 |                 |                       | Lower                                     | Upper     |
| hardness | Equal variances assumed     | 2,797                                   | ,114 | -1,302                       | 16     | ,211            | -192,36444      | 147,75975             | -505,601                                  | 120,87222 |
|          | Equal variances not assumed |   |      | -1,302                       | 12,687 | ,216            | -192,36444      | 147,75975             | -512,381                                  | 127,65252 |

Independent Samples Test

|          |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |        |                 |                 |                       |   |           |
|----------|-----------------------------|---|------|------------------------------|--------|-----------------|-----------------|-----------------------|---|-----------|
|          |                             | F                                       | Sig. | t                            | df     | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |           |
|          |                             |   |      |                              |        |                 |                 |                       | Lower                                     | Upper     |
| hardness | Equal variances assumed     | ,209                                    | ,654 | -,737                        | 16     | ,472            | -82,22333       | 111,63469             | -318,878                                  | 154,43164 |
|          | Equal variances not assumed |   |      | -,737                        | 15,678 | ,472            | -82,22333       | 111,63469             | -319,274                                  | 154,82706 |

Independent Samples Test

|          |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |        |                 |                 |                       |   |           |
|----------|-----------------------------|---|------|------------------------------|--------|-----------------|-----------------|-----------------------|---|-----------|
|          |                             | F                                       | Sig. | t                            | df     | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |           |
|          |                             |   |      |                              |        |                 |                 |                       | Lower                                     | Upper     |
| hardness | Equal variances assumed     | 11,730                                  | ,003 | -1,196                       | 16     | ,249            | -240,60000      | 201,20902             | -667,144                                  | 185,94406 |
|          | Equal variances not assumed |   |      | -1,196                       | 10,375 | ,258            | -240,60000      | 201,20902             | -686,732                                  | 205,53242 |

Independent Samples Test

|          |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |        |                 |                 |                       |   |           |
|----------|-----------------------------|---|------|------------------------------|--------|-----------------|-----------------|-----------------------|---|-----------|
|          |                             | F                                       | Sig. | t                            | df     | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |           |
|          |                             |   |      |                              |        |                 |                 |                       | Lower                                     | Upper     |
| hardness | Equal variances assumed     | 1,630                                   | ,220 | -,717                        | 16     | ,484            | 110,14111       | 153,68289             | -215,652                                  | 435,93427 |
|          | Equal variances not assumed |   |      | -,717                        | 13,824 | ,486            | 110,14111       | 153,68289             | -219,870                                  | 440,15236 |

Independent Samples Test

|          |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |        |                 |                 |                       |   |           |
|----------|-----------------------------|---|------|------------------------------|--------|-----------------|-----------------|-----------------------|---|-----------|
|          |                             | F                                       | Sig. | t                            | df     | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |           |
|          |                             |   |      |                              |        |                 |                 |                       | Lower                                     | Upper     |
| hardness | Equal variances assumed     | 2,682                                   | ,121 | -,212                        | 16     | ,835            | -48,23556       | 227,24699             | -529,978                                  | 433,50654 |
|          | Equal variances not assumed |   |      | -,212                        | 14,154 | ,835            | -48,23556       | 227,24699             | -535,136                                  | 438,66505 |

Independent Samples Test

|          |                             | Levene's Test for Equality of Variances |      | t-test for Equality of Means |        |                 |                 |                       |   |           |
|----------|-----------------------------|---|------|------------------------------|--------|-----------------|-----------------|-----------------------|---|-----------|
|          |                             | F                                       | Sig. | t                            | df     | Sig. (2-tailed) | Mean Difference | Std. Error Difference | 95% Confidence Interval of the Difference |           |
|          |                             |   |      |                              |        |                 |                 |                       | Lower                                     | Upper     |
| hardness | Equal variances assumed     | 9,144                                   | ,008 | -,770                        | 16     | ,452            | -158,37667      | 205,59804             | -594,225                                  | 277,47171 |
|          | Equal variances not assumed |   |      | -,770                        | 11,115 | ,457            | -158,37667      | 205,59804             | -610,324                                  | 293,57066 |

- **Uji Kruskal-Wallis**

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

|             | Warna  | Aroma  | Rasa   | Tekstur | Keseluruhan |
|-------------|--------|--------|--------|---------|-------------|
| Chi-Square  | 20,106 | 58,225 | 40,820 | 12,054  | 48,776      |
| df          | 3      | 3      | 3      | 3       | 3           |
| Asymp. Sig. | ,000   | ,000   | ,000   | ,007    | ,000        |

a. Kruskal Wallis Test

b. Grouping Variable: Perlakuan

- **Uji Mann-Whitney**

- ✓ **Parameter Warna**

- a. F0 vs F1

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

|                        | Warna   |
|------------------------|---------|
| Mann-Whitney U         | 286,000 |
| Wilcoxon W             | 916,000 |
| Z                      | -3,897  |
| Asymp. Sig. (2-tailed) | ,000    |

a. Grouping Variable: Perlakuan

- b. F0 vs F2

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

|                        | Warna   |
|------------------------|---------|
| Mann-Whitney U         | 357,500 |
| Wilcoxon W             | 987,500 |
| Z                      | -3,052  |
| Asymp. Sig. (2-tailed) | ,002    |

a. Grouping Variable: Perlakuan

- c. F0 vs F3

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

|                        | Warna    |
|------------------------|----------|
| Mann-Whitney U         | 463,000  |
| Wilcoxon W             | 1093,000 |
| Z                      | -1,809   |
| Asymp. Sig. (2-tailed) | ,070     |

a. Grouping Variable: Perlakuan



d. F1 vs F2

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

|                        | Warna    |
|------------------------|----------|
| Mann-Whitney U         | 517,500  |
| Wilcoxon W             | 1147,500 |
| Z                      | -1,137   |
| Asymp. Sig. (2-tailed) | ,255     |

a. Grouping Variable: Perlakuan

e. F1 vs F3

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

|                        | Warna    |
|------------------------|----------|
| Mann-Whitney U         | 385,500  |
| Wilcoxon W             | 1015,500 |
| Z                      | -2,740   |
| Asymp. Sig. (2-tailed) | ,006     |

a. Grouping Variable: Perlakuan

f. F2 vs F3

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

|                        | Warna    |
|------------------------|----------|
| Mann-Whitney U         | 458,000  |
| Wilcoxon W             | 1088,000 |
| Z                      | -1,873   |
| Asymp. Sig. (2-tailed) | ,061     |

a. Grouping Variable: Perlakuan

✓ **Parameter Aroma**

a. F0 vs F1

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

|                        | Aroma   |
|------------------------|---------|
| Mann-Whitney U         | 49,500  |
| Wilcoxon W             | 679,500 |
| Z                      | -6,744  |
| Asymp. Sig. (2-tailed) | ,000    |

a. Grouping Variable: Perlakuan

b. F0 vs F2

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

|                        | Aroma   |
|------------------------|---------|
| Mann-Whitney U         | 120,000 |
| Wilcoxon W             | 750,000 |
| Z                      | -5,938  |
| Asymp. Sig. (2-tailed) | ,000    |

a. Grouping Variable: Perlakuan

c. F0 vs F3

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

|                        | Aroma   |
|------------------------|---------|
| Mann-Whitney U         | 193,500 |
| Wilcoxon W             | 823,500 |
| Z                      | -5,134  |
| Asymp. Sig. (2-tailed) | ,000    |

a. Grouping Variable: Perlakuan

d. F1 vs F2

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

|                        | Aroma    |
|------------------------|----------|
| Mann-Whitney U         | 486,000  |
| Wilcoxon W             | 1116,000 |
| Z                      | -1,518   |
| Asymp. Sig. (2-tailed) | ,129     |

a. Grouping Variable: Perlakuan

e. F1 vs F3

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

|                        | Aroma    |
|------------------------|----------|
| Mann-Whitney U         | 382,500  |
| Wilcoxon W             | 1012,500 |
| Z                      | -2,746   |
| Asymp. Sig. (2-tailed) | ,006     |

a. Grouping Variable: Perlakuan

f. F2 vs F3

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

|                        | Aroma    |
|------------------------|----------|
| Mann-Whitney U         | 514,000  |
| Wilcoxon W             | 1144,000 |
| Z                      | -1,180   |
| Asymp. Sig. (2-tailed) | ,238     |

a. Grouping Variable: Perlakuan

✓ **Parameter Rasa**

a. F0 vs F1

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

|                        | Rasa    |
|------------------------|---------|
| Mann-Whitney U         | 132,000 |
| Wilcoxon W             | 762,000 |
| Z                      | -5,734  |
| Asymp. Sig. (2-tailed) | ,000    |

a. Grouping Variable: Perlakuan

b. F0 vs F2

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

|                        | Rasa    |
|------------------------|---------|
| Mann-Whitney U         | 214,500 |
| Wilcoxon W             | 844,500 |
| Z                      | -4,764  |
| Asymp. Sig. (2-tailed) | ,000    |

a. Grouping Variable: Perlakuan

c. F0 vs F3

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

|                        | Rasa    |
|------------------------|---------|
| Mann-Whitney U         | 258,500 |
| Wilcoxon W             | 888,500 |
| Z                      | -4,251  |
| Asymp. Sig. (2-tailed) | ,000    |

a. Grouping Variable: Perlakuan

## d. F1 vs F2

|                        | Rasa     |
|------------------------|----------|
| Mann-Whitney U         | 458,500  |
| Wilcoxon W             | 1088,500 |
| Z                      | -1,841   |
| Asymp. Sig. (2-tailed) | ,066     |

a. Grouping Variable: Perlakuan

## e. F1 vs F3

|                        | Rasa     |
|------------------------|----------|
| Mann-Whitney U         | 429,500  |
| Wilcoxon W             | 1059,500 |
| Z                      | -2,186   |
| Asymp. Sig. (2-tailed) | ,029     |

a. Grouping Variable: Perlakuan

## f. F2 vs F3

|                        | Rasa     |
|------------------------|----------|
| Mann-Whitney U         | 579,000  |
| Wilcoxon W             | 1209,000 |
| Z                      | -,400    |
| Asymp. Sig. (2-tailed) | ,689     |

a. Grouping Variable: Perlakuan

✓ **Parameter Tekstur**

## a. F0 vs F1

|                        | Tekstur |
|------------------------|---------|
| Mann-Whitney U         | 345,500 |
| Wilcoxon W             | 975,500 |
| Z                      | -3,214  |
| Asymp. Sig. (2-tailed) | ,001    |

a. Grouping Variable: Perlakuan

b. F0 vs F2

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

|                        | Tekstur  |
|------------------------|----------|
| Mann-Whitney U         | 377,500  |
| Wilcoxon W             | 1007,500 |
| Z                      | -2,844   |
| Asymp. Sig. (2-tailed) | ,004     |

a. Grouping Variable: Perlakuan

c. F0 vs F3

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

|                        | Tekstur  |
|------------------------|----------|
| Mann-Whitney U         | 436,500  |
| Wilcoxon W             | 1066,500 |
| Z                      | -2,129   |
| Asymp. Sig. (2-tailed) | ,033     |

a. Grouping Variable: Perlakuan

d. F1 vs F2

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

|                        | Tekstur  |
|------------------------|----------|
| Mann-Whitney U         | 569,500  |
| Wilcoxon W             | 1199,500 |
| Z                      | -,517    |
| Asymp. Sig. (2-tailed) | ,605     |

a. Grouping Variable: Perlakuan

e. F1 vs F3

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

|                        | Tekstur  |
|------------------------|----------|
| Mann-Whitney U         | 538,500  |
| Wilcoxon W             | 1168,500 |
| Z                      | -,888    |
| Asymp. Sig. (2-tailed) | ,375     |

a. Grouping Variable: Perlakuan

f. F2 vs F3

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

|                        | Tekstur  |
|------------------------|----------|
| Mann-Whitney U         | 577,000  |
| Wilcoxon W             | 1207,000 |
| Z                      | -,426    |
| Asymp. Sig. (2-tailed) | ,670     |

a. Grouping Variable: Perlakuan

✓ **Parameter Keseluruhan**

a. F0 vs F1

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

|                        | Keseluruhan |
|------------------------|-------------|
| Mann-Whitney U         | 119,000     |
| Wilcoxon W             | 749,000     |
| Z                      | -5,884      |
| Asymp. Sig. (2-tailed) | ,000        |

a. Grouping Variable: Perlakuan

b. F0 vs F2

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

|                        | Keseluruhan |
|------------------------|-------------|
| Mann-Whitney U         | 148,000     |
| Wilcoxon W             | 778,000     |
| Z                      | -5,585      |
| Asymp. Sig. (2-tailed) | ,000        |

a. Grouping Variable: Perlakuan

c. F0 vs F3

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

|                        | Keseluruhan |
|------------------------|-------------|
| Mann-Whitney U         | 234,500     |
| Wilcoxon W             | 864,500     |
| Z                      | -4,557      |
| Asymp. Sig. (2-tailed) | ,000        |

a. Grouping Variable: Perlakuan

d. F1 vs F2

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

|                        | Keseluruhan |
|------------------------|-------------|
| Mann-Whitney U         | 473,000     |
| Wilcoxon W             | 1103,000    |
| Z                      | -1,675      |
| Asymp. Sig. (2-tailed) | ,094        |

a. Grouping Variable: Perlakuan

e. F1 vs F3

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

|                        | Keseluruhan |
|------------------------|-------------|
| Mann-Whitney U         | 386,000     |
| Wilcoxon W             | 1016,000    |
| Z                      | -2,705      |
| Asymp. Sig. (2-tailed) | ,007        |

a. Grouping Variable: Perlakuan

f. F2 vs F3

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

|                        | Keseluruhan |
|------------------------|-------------|
| Mann-Whitney U         | 509,000     |
| Wilcoxon W             | 1139,000    |
| Z                      | -1,249      |
| Asymp. Sig. (2-tailed) | ,212        |

a. Grouping Variable: Perlakuan

## Lampiran 2. Lembar Sensori Uji *Rating Hedonik Kukis*

### LEMBAR PENILAIAN UJI KESUKAAN

Produk : *Cookies*

Nama Panelis :

Usia :

Instruksi :

1. Netralkan indera pengecap anda dengan berkumur air putih setelah mencicipi satu sampel dan sebelum mencicipi sampel selanjutnya.
2. Lalu beri penilaian kepada 4 sampel dengan mengamati dan mencicipi secara berurutan dari kiri ke kanan.
3. Nyatakan penilaian anda sesuai dengan kriteria (isi angka antara 1-9)

| Parameter   | Kode Sampel |  |  |  |
|-------------|-------------|--|--|--|
|             |             |  |  |  |
| Warna       |             |  |  |  |
| Aroma       |             |  |  |  |
| Rasa        |             |  |  |  |
| Tekstur     |             |  |  |  |
| Keseluruhan |             |  |  |  |

**Keterangan Kriteria :**  
 1 = Amat sangat tidak suka  
 2 = Sangat tidak suka  
 3 = Tidak suka  
 4 = Agak tidak suka  
 5 = Netral  
 6 = Agak suka  
 7 = Suka  
 8 = Sangat suka  
 9 = Amat sangat suka



**Lampiran 3. Foto**

Gambar 7. Panelis Saat Melakukan Uji Sensori Kukis Bebas Gluten  
(Dokumentasi Pribadi)



## Lampiran 4. Hasil *Plagscan*

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Summary