Lampiran 1. *Worksheet* Uji Sensori

**WORKSHEET UJI RANKING HEDONIK**

Tanggal uji : 3 Desember 2009  
Jenis sampel : *Infusion*

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**Kode Kombinasi Urutan Penyajian**

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**Rekap Kode Sampel**

| Sampel A | 111 901 902 903 151 904 905 906 191 907 908 909 221 910 911 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|   | 912 261 913 914 666 300 333 222 100 723 493 267 559 462 367 |
| Sampel B | 109 121 691 141 791 161 891 181 591 200 321 211 465 231 530 |
|   | 251 730 271 430 291 234 301 405 321 476 839 557 348 841 614 |
| Sampel C | 919 888 131 917 777 918 171 555 875 225 201 920 493 394 241 |
|   | 916 444 678 281 915 217 343 311 999 718 478 840 756 689 539 |
Lampiran 2. Kuesioner Uji Sensori

Nama : 
Tanggal: 
Produk : Guava Infusion
Penilaian untuk : Aroma
Instruksi :

Di hadapan Anda terdapat 3 sampel infusion. Hirup aroma yang keluar dari sampel secara berturutan dari kiri ke kanan. Setelah menghirup semua aroma dari masing-masing sampel, Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling Anda sukai (=1) hingga sampel yang paling kurang Anda sukai (=3)

Sampel Ranking (jangan ada yang dobel)

____  ___________
____  ___________
____  ___________

Terima kasih

Nama : 
Tanggal: 
Produk : Guava Infusion
Penilaian untuk : Aroma
Instruksi :

Di hadapan Anda terdapat 3 sampel infusion. Hirup aroma yang keluar dari sampel secara berturutan dari kiri ke kanan. Setelah menghirup semua aroma dari masing-masing sampel, Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling Anda sukai (=1) hingga sampel yang paling kurang Anda sukai (=3)

Sampel Ranking (jangan ada yang dobel)

____  ___________
____  ___________
____  ___________

Terima kasih
Lampiran 3. Analisa One-Way Anova Kadar Air

**ANOVA**

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**wet_basis**

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Means for groups in homogeneous subsets are displayed.

- Uses Harmonic Mean Sample Size = 3.000.

**dry_basis**

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Means for groups in homogeneous subsets are displayed.

- Uses Harmonic Mean Sample Size = 3.000.
Duncan

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Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

Lampiran 4. Analisa Multivariate Sampel A

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The statistic is an upper bound on F that yields a lower bound on the significance level.

a. Exact statistic
b. Design: Intercept+suhu+waktu+suhu * waktu
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- a. R Squared = .932  (Adjusted R Squared = .900)
- b. R Squared = .981  (Adjusted R Squared = .973)
- c. R Squared = .966  (Adjusted R Squared = .951)
- d. R Squared = .941  (Adjusted R Squared = .915)
Lampiran 5. Analisa Aktivitas Antioksidan Sampel A Secara *Two-Way Anova* pada suhu 25°C-70°C

**antioksidan**

| suhu | N | Subset | | |
|------|---|--------|---|---|---|---|
| 4    | 9 | 1      | .29078 | 2 | 3 | 4 |
| 3    | 9 |        | 41167  |    | 52833 | 74967 |
| 2    | 9 |        |        |    |    | 74967 |
| 1    | 9 | 1      | 1.000  | 2 | 3 | 4 |

Means for groups in homogeneous subsets are displayed. Based on Type III Sum of Squares. The error term is Mean Square(Error) = .004.

- a. Uses Harmonic Mean Sample Size = 9.000.
- b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- c. Alpha = .05.

Lampiran 6. Analisa Kadar Vitamin C Sampel A Secara *Two-Way Anova* pada suhu 25°C-70°C

**vit_c**

| suhu | N | Subset | | |
|------|---|--------|---|---|---|---|
| 1    | 9 | 1      | 3.72533 | 2 | 3 | 4 |
| 3    | 9 |        | 4.10667 |    |    | 6.07200 |
| 2    | 9 |        |        |    | 5.76889 | 6.07200 |
| 4    | 9 | 1      | 1.000  | 2 | 3 | 4 |

Means for groups in homogeneous subsets are displayed. Based on Type III Sum of Squares. The error term is Mean Square(Error) = .069.

- a. Uses Harmonic Mean Sample Size = 9.000.
- b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- c. Alpha = .05.
Lampiran 7. Analisa nilai pH Sampel A Secara Two-Way Anova pada suhu 25°C-70°C

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Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .000.

- a. Uses Harmonic Mean Sample Size = 9.000.
- b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- c. Alpha = .05.

Lampiran 8. Analisa Aktivitas Antioksidan Sampel A Secara Two-Way Anova pada waktu 3-5 menit

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Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .004.

- a. Uses Harmonic Mean Sample Size = 12.000.
- b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- c. Alpha = .05.
Lampiran 9. Analisa Kadar Vitamin C Sampel A Secara *Two-Way Anova* pada waktu 3-5 menit

**vit_c**

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Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .069.

a. Uses Harmonic Mean Sample Size = 12.000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = .05.

Lampiran 10. Analisa Nilai pH Sampel A Secara *Two-Way Anova* pada waktu 3-5 menit

**ph**

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Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .000.

a. Uses Harmonic Mean Sample Size = 12.000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = .05.
Lampiran 11. Analisa Multivariate pada Sampel B

### Multivariate Tests

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- **a.** Exact statistic
- **b.** The statistic is an upper bound on F that yields a lower bound on the significance level.
- **c.** Design: Intercept+suhu+waktu+suhu * waktu
### Tests of Between-Subjects Effects

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* a. R Squared = .982 (Adjusted R Squared = .974)
* b. R Squared = .908 (Adjusted R Squared = .866)
* c. R Squared = .969 (Adjusted R Squared = .955)
* d. R Squared = .997 (Adjusted R Squared = .996)

**antioksidan**

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Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .001.

* a. Uses Harmonic Mean Sample Size = 9.000.
* b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
* c. Alpha = .05.


**vit_c**

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Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .100.

* a. Uses Harmonic Mean Sample Size = 9.000.
* b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
* c. Alpha = .05.

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Means for groups in homogeneous subsets are displayed. Based on Type III Sum of Squares.
The error term is Mean Square(Error) = .000.
  a. Uses Harmonic Mean Sample Size = 9.000.
  b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
  c. Alpha = .05.

Lampiran 15. Analisa Aktivitas Antioksidan Sampel B Secara Two-Way Anova pada waktu 3-5 menit

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Means for groups in homogeneous subsets are displayed. Based on Type III Sum of Squares.
The error term is Mean Square(Error) = .001.
  a. Uses Harmonic Mean Sample Size = 12.000.
  b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
  c. Alpha = .05.
Lampiran 16. Analisa Kadar Vitamin C Sampel B Secara *Two-Way Anova* pada waktu 3-5 menit

**vit_c**

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Means for groups in homogeneous subsets are displayed. Based on Type III Sum of Squares

The error term is Mean Square(Error) = .100.

a. Uses Harmonic Mean Sample Size = 12.000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = .05.

Lampiran 17. Analisa Nilai pH Sampel B Secara *Two-Way Anova* pada waktu 3-5 menit

**ph**

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Means for groups in homogeneous subsets are displayed. Based on Type III Sum of Squares

The error term is Mean Square(Error) = .000.

a. Uses Harmonic Mean Sample Size = 12.000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = .05.
Lampiran 18. Analisa *Multivariate* pada Sampel C

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*a. Exact statistic*

*b. The statistic is an upper bound on F that yields a lower bound on the significance level.*

*c. Design: Intercept+suhu+waktu+suhu * waktu*
### Tests of Between-Subjects Effects

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- a. R Squared = .950 (Adjusted R Squared = .926)
- b. R Squared = .950 (Adjusted R Squared = .927)
- c. R Squared = .989 (Adjusted R Squared = .984)
- d. R Squared = .998 (Adjusted R Squared = .998)
Lampiran 19. Analisa Aktivitas Antioksidan Sampel C Secara *Two-Way Anova* pada suhu 25°C-70°C

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Means for groups in homogeneous subsets are displayed. Based on Type III Sum of Squares. The error term is Mean Square(Error) = .001.

- a. Uses Harmonic Mean Sample Size = 9.000.
- b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- c. Alpha = .05.

Lampiran 20. Analisa Kadar Vitamin C Sampel C Secara *Two-Way Anova* pada suhu 25°C-70°C

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Means for groups in homogeneous subsets are displayed. Based on Type III Sum of Squares. The error term is Mean Square(Error) = .362.

- a. Uses Harmonic Mean Sample Size = 9.000.
- b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
- c. Alpha = .05.

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Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 7.22E-005.

a. Uses Harmonic Mean Sample Size = 9.000.
b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
c. Alpha = .05.

Lampiran 22. Analisa Aktivitas Antioksidan Sampel C Secara Two-Way Anova pada waktu 3-5 menit

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Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .001.

a. Uses Harmonic Mean Sample Size = 12.000.
b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.
c. Alpha = .05.
Lampiran 23. Analisa Kadar Vitamin C Sampel C Secara Two-Way Anova pada waktu 3-5 menit

vit_c

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Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = .362.

a. Uses Harmonic Mean Sample Size = 12.000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = .05.


pH

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Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 7.22E-005.

a. Uses Harmonic Mean Sample Size = 12.000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = .05.
Lampiran 25. Analisa *Multivariate* pada Sampel A, B, dan C

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<td>.000</td>
</tr>
</tbody>
</table>

a. Exact statistic

b. The statistic is an upper bound on F that yields a lower bound on the significance level.

c. Design: Intercept+sampel
<table>
<thead>
<tr>
<th>Source</th>
<th>Dependent Variable</th>
<th>Type III Sum of Squares</th>
<th>df</th>
<th>Mean Square</th>
<th>F</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corrected Model</td>
<td>antioksidan</td>
<td>.992a</td>
<td>2</td>
<td>.496</td>
<td>17.287</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>vit_c</td>
<td>57.589b</td>
<td>2</td>
<td>28.794</td>
<td>10.425</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>ph</td>
<td>.465c</td>
<td>2</td>
<td>.232</td>
<td>49.722</td>
<td>.000</td>
</tr>
<tr>
<td></td>
<td>L</td>
<td>3489.104d</td>
<td>2</td>
<td>1744.552</td>
<td>29.867</td>
<td>.000</td>
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<td>Intercept</td>
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<td>1632.151</td>
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<td>ph</td>
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<td>.005</td>
<td></td>
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<td>L</td>
<td>6133.184</td>
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<td>58.411</td>
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<td></td>
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<tr>
<td></td>
<td>vit_c</td>
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<td>107</td>
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<td>ph</td>
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<td>107</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>L</td>
<td>9622.288</td>
<td>107</td>
<td></td>
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</tr>
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</table>

a. R Squared = .248 (Adjusted R Squared = .233)

b. R Squared = .166 (Adjusted R Squared = .150)

c. R Squared = .486 (Adjusted R Squared = .477)

d. R Squared = .363 (Adjusted R Squared = .350)

antioksidan

Duncan\textsuperscript{a,b,c}

<table>
<thead>
<tr>
<th>sampel</th>
<th>N</th>
<th>Subset</th>
</tr>
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<tr>
<td></td>
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<tr>
<td>1</td>
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</tr>
<tr>
<td>3</td>
<td>36</td>
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<tr>
<td>2</td>
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<tr>
<td>Sig.</td>
<td></td>
<td>1.000</td>
</tr>
</tbody>
</table>

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = .029.

\textsuperscript{a} Uses Harmonic Mean Sample Size = 36.000.

\textsuperscript{b} The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

\textsuperscript{c} Alpha = .05.

Lampiran 27. Analisa Kadar Vitamin C Sampel A, B, dan C Secara Two-Way Anova

vit_c

Duncan\textsuperscript{a,b,c}

<table>
<thead>
<tr>
<th>sampel</th>
<th>N</th>
<th>Subset</th>
</tr>
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<tr>
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<td>3</td>
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<td>36</td>
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<tr>
<td>Sig.</td>
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</table>

Means for groups in homogeneous subsets are displayed.

Based on Type III Sum of Squares

The error term is Mean Square(Error) = 2.762.

\textsuperscript{a} Uses Harmonic Mean Sample Size = 36.000.

\textsuperscript{b} The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

\textsuperscript{c} Alpha = .05.
Lampiran 28. Analisa Nilai pH Sampel A, B, dan C Secara Two-Way Anova

\[ \text{ph} \]

<table>
<thead>
<tr>
<th>sampel</th>
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<td>3</td>
<td>36</td>
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</tbody>
</table>

Means for groups in homogeneous subsets are displayed. Based on Type III Sum of Squares.

The error term is Mean Square(Error) = .005.

a. Uses Harmonic Mean Sample Size = 36.000.

b. The group sizes are unequal. The harmonic mean of the group sizes is used. Type I error levels are not guaranteed.

c. Alpha = .05.

Lampiran 29. Analisa Sensori Warna Non-Parametrik

<table>
<thead>
<tr>
<th>Test Statistics(^a,b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chi-Square</td>
</tr>
<tr>
<td>19.679</td>
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</tbody>
</table>

a. Kruskal Wallis Test

b. Grouping Variable: sampel

c. sampel A vs sampel B

<table>
<thead>
<tr>
<th>Test Statistics(^a)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mann-Whitney U</td>
</tr>
<tr>
<td>305.000</td>
</tr>
</tbody>
</table>

a. Grouping Variable: sampel

d. sampel A vs sampel C
### Test Statistics

<table>
<thead>
<tr>
<th>Test</th>
<th>tk_suka_wrn</th>
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</thead>
<tbody>
<tr>
<td>Mann-Whitney U</td>
<td>205.000</td>
</tr>
<tr>
<td>Wilcoxon W</td>
<td>670.000</td>
</tr>
<tr>
<td>Z</td>
<td>-3.928</td>
</tr>
<tr>
<td>Asymp. Sig. (2-tailed)</td>
<td>.000</td>
</tr>
</tbody>
</table>

*a. Grouping Variable: sampel*

### sampel B vs sampel C

<table>
<thead>
<tr>
<th>Test</th>
<th>tk_suka_wrn</th>
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</thead>
<tbody>
<tr>
<td>Mann-Whitney U</td>
<td>245.000</td>
</tr>
<tr>
<td>Wilcoxon W</td>
<td>710.000</td>
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<td>Z</td>
<td>-3.273</td>
</tr>
<tr>
<td>Asymp. Sig. (2-tailed)</td>
<td>.001</td>
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</tbody>
</table>

*a. Grouping Variable: sampel*

### Lampiran 30. Analisa Sensori Warna Non-Parametrik

<table>
<thead>
<tr>
<th>Test</th>
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</thead>
<tbody>
<tr>
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*a. Kruskal Wallis Test  
b. Grouping Variable: sampel*

### Lampiran 31. Analisa Sensori Rasa Non-Parametrik

<table>
<thead>
<tr>
<th>Test</th>
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</thead>
<tbody>
<tr>
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</table>

*a. Kruskal Wallis Test  
b. Grouping Variable: sampel*

### Lampiran 32. Analisa Sensori *Overall* Non-Parametrik
Test Statistics\textsuperscript{a,b}

<table>
<thead>
<tr>
<th></th>
<th>overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chi-Square</td>
<td>10.779</td>
</tr>
<tr>
<td>df</td>
<td>2</td>
</tr>
<tr>
<td>Asymp. Sig.</td>
<td>.005</td>
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</tbody>
</table>

\textsuperscript{a} Kruskal Wallis Test  
\textsuperscript{b} Grouping Variable: sampel

Sampel A vs sampel B

Test Statistics\textsuperscript{a}

<table>
<thead>
<tr>
<th></th>
<th>overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mann-Whitney U</td>
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<tr>
<td>Wilcoxon W</td>
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<td>Z</td>
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</tbody>
</table>

\textsuperscript{a} Grouping Variable: sampel

sampel A vs sampel C

Test Statistics\textsuperscript{a}

<table>
<thead>
<tr>
<th></th>
<th>overall</th>
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<tbody>
<tr>
<td>Mann-Whitney U</td>
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<tr>
<td>Wilcoxon W</td>
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<td>Z</td>
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\textsuperscript{a} Grouping Variable: sampel

sampel B vs sampel C

Test Statistics\textsuperscript{a}

<table>
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\textsuperscript{a} Grouping Variable: sampel

Lampiran 33. Analisa Korelasi
### Lampiran 34. Analisa Korelasi Parsial

#### Correlations

<table>
<thead>
<tr>
<th>Control Variables</th>
<th>suhu</th>
<th>antioksidan</th>
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<tbody>
<tr>
<td>suhu</td>
<td></td>
<td></td>
</tr>
<tr>
<td>antioksidan</td>
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</tbody>
</table>

**Correlation is significant at the 0.01 level (2-tailed).**

**Correlation is significant at the 0.05 level (2-tailed).**

---

**Correlations**

<table>
<thead>
<tr>
<th>Control Variables</th>
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<th>ph</th>
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<td>ph</td>
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</tbody>
</table>

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**Correlations**

<table>
<thead>
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<th>Control Variables</th>
<th>suhu</th>
<th>ph</th>
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<tr>
<td>ph</td>
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Lampiran 35. Hasil analisa kadar vitamin C pada bahan penyusun *infusion*

<table>
<thead>
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<th>Vitamin C (mg)</th>
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<tbody>
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<tr>
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<td>7.30</td>
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