

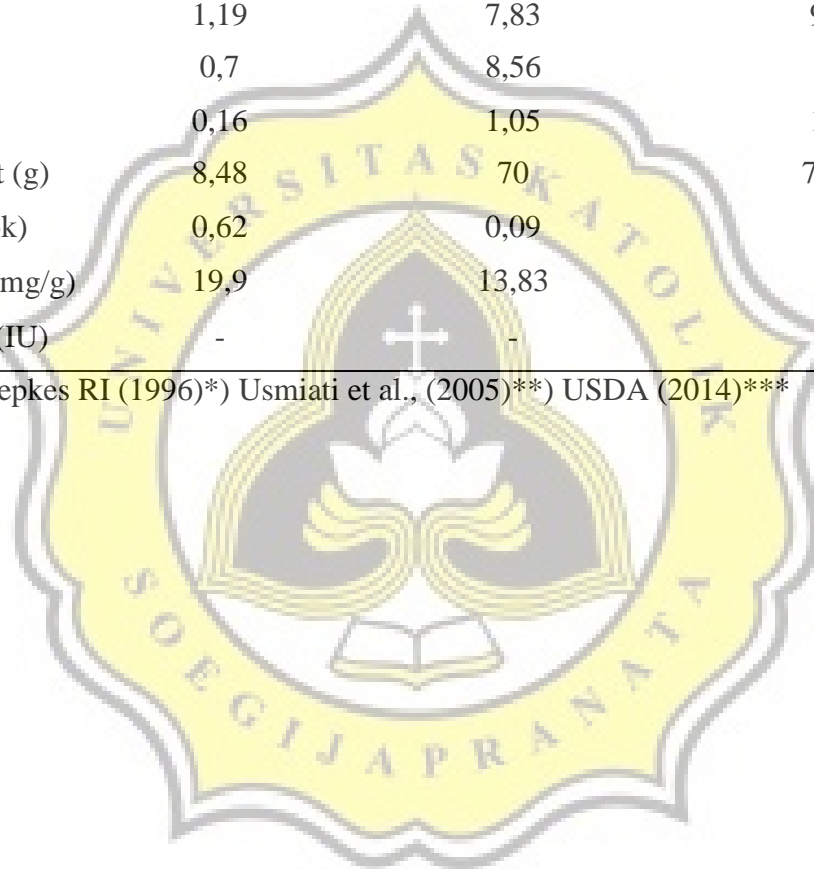
7. LAMPIRAN

Lampiran 1. Komposisi Gizi Labu Kuning, Tepung Labu Kuning, dan Tepung Terigu per 100 gram bahan

Tabel 8. Komposisi Gizi Labu Kuning, Tepung Labu Kuning, dan Tepung Terigu per 100 gram bahan

| Komponen | Labu Kuning* | Tepung Labu Kuning** | Tepung Terigu*** |
|------------------|--------------|----------------------|------------------|
| Air (g) | 89,47 | 12,01 | 12,42 |
| Protein (g) | 1,19 | 7,83 | 9,61 |
| Abu (g) | 0,7 | 8,56 | - |
| Lemak (g) | 0,16 | 1,05 | 1,95 |
| Karbohidrat (g) | 8,48 | 70 | 74,48 |
| Pektin (% bk) | 0,62 | 0,09 | - |
| B-Karoten (mg/g) | 19,9 | 13,83 | - |
| Vitamin A (IU) | - | - | 9 |

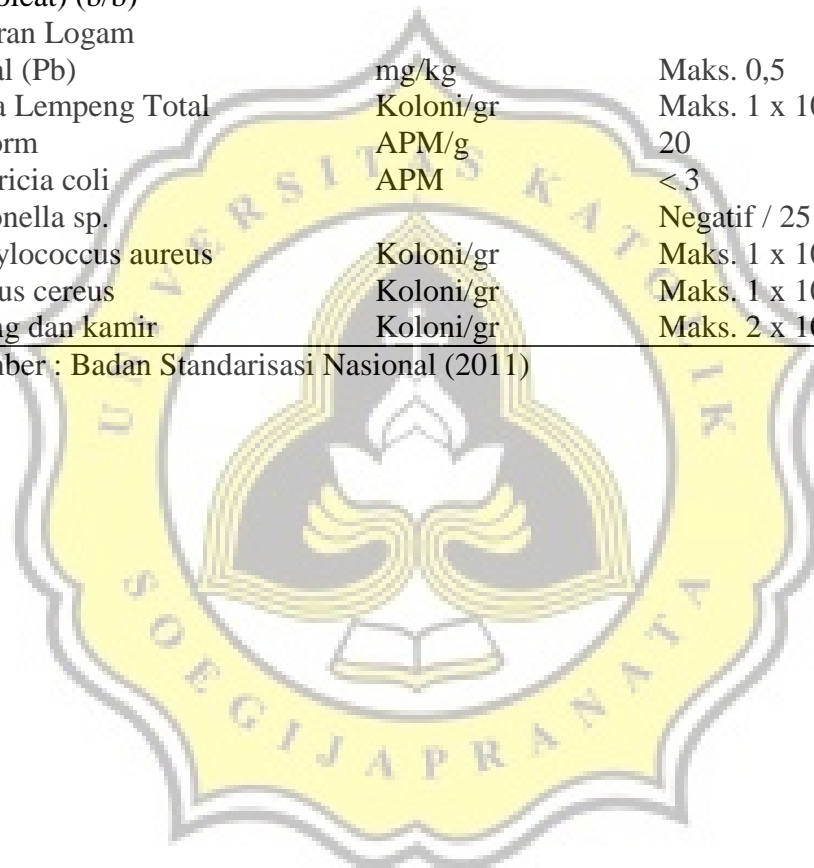
Sumber : Depkes RI (1996)*) Usmiati et al., (2005)**) USDA (2014)***



Lampiran 2. Syarat Mutu Kue Kering dalam 100 g menurut SNI 01-2973-1992

| No | Kriteria Uji | Satuan | Persyaratan |
|-----|---|-----------|-------------------------------------|
| 1 | Keadaan | | |
| 1.1 | Bau | - | Normal |
| 1.2 | Rasa | - | Normal |
| 1.3 | Warna | - | Normal |
| 2 | Kadar air (b/b) | % | Maks. 5 |
| 3 | Protein (N x 6,25) (b/b) | % | Min. 5 Min. 4.5 *) Min. 3 **) |
| 4 | Asam lemak bebas (sebagai asam oleat) (b/b) | % | Maks. 1,0 |
| 5 | Cemaran Logam | | |
| 5.1 | Timbal (Pb) | mg/kg | Maks. 0,5 |
| 7.1 | Angka Lempeng Total | Koloni/gr | Maks. 1×10^4 |
| 7.2 | Coliform | APM/g | 20 |
| 7.3 | Eschericia coli | APM | < 3 |
| 7.4 | Salmonella sp. | | Negatif / 25 g |
| 7.5 | Staphylococcus aureus | Koloni/gr | Maks. 1×10^2 |
| 7.6 | Bacillus cereus | Koloni/gr | Maks. 1×10^2 |
| 7.7 | Kapang dan kamir | Koloni/gr | Maks. 2×10^2 |

Sumber : Badan Standarisasi Nasional (2011)



Lampiran 3. Syarat Mutu Tepung Terigu dalam 100 g menurut SNI 01-2974-1992

Standarisasi Tepung Terigu dalam Bahan Pangan

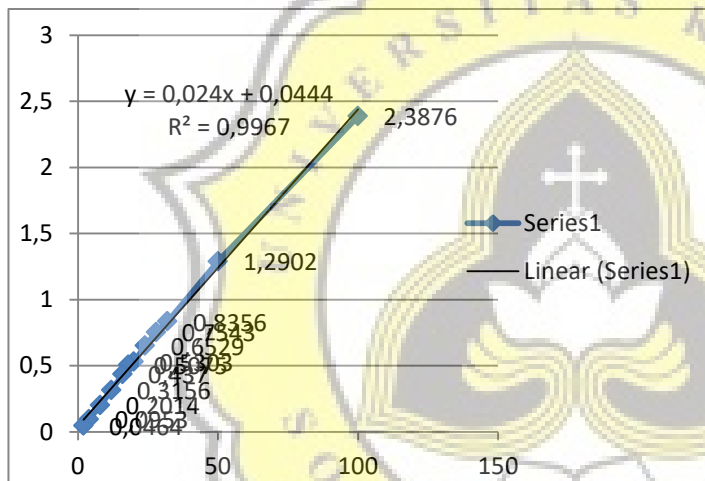
| Jenis uji | Satuan | Persyaratan |
|--|--------------|-------------------------------|
| Keadaan | | |
| Bentuk | - | |
| Bau | - | Normal (bebas dari bau asing) |
| Rasa | - | Normal (bebas dari bau asing) |
| Warna | - | Putih khas terigu |
| Benda asing | - | Tidak boleh ada |
| Serangga | - | Tidak boleh ada |
| Air | %, b/b | Maksimal 14,5% |
| Abu | %, b/b | Maksimal 0,6% |
| Protein | %, b/b | Minimal 7,0% |
| Keasamaan | mgKOH/100 gr | Maksimal 50/100 gr |
| Besi (Fe) | mg/kg | Minimal 50 |
| Zeng (Zn) | mg/kg | Minimal 30 |
| Vitamin B ₁ (Thiamin) | mg/kg | Minimal 2,5 |
| Vitamin B ₂ (Riboflavin) | mg/kg | Minimal 4 |
| Asam Folat | mg/kg | Min. 2 |
| Cemaran Logam | | |
| Timbal (Pb) | mg/kg | Maks. 1,10 |
| Raksa (Hg) | mg/kg | Maks. 0,05 |
| Tembaga (Cu) | mg/kg | Maks. 10 |

SNI 01-2974-1992



Lampiran 4. Kurva Standart Betakaroten

| Pengenceran ppm | Absorbansi |
|-----------------|------------|
| 100 | 2,3876 |
| 50 | 1,2902 |
| 32 | 0,8356 |
| 28 | 0,7543 |
| 24 | 0,6529 |
| 20 | 0,5303 |
| 18 | 0,5075 |
| 16 | 0,437 |
| 12 | 0,3156 |
| 8 | 0,2014 |
| 4 | 0,0953 |
| 2 | 0,0464 |



Lampiran 5. Worksheet dan Skorsheet Uji Organoleptik

Worksheet Uji Ranking Hedonik

Tanggal uji :

Jenis sampel : *Cookies*

Identifikasi sampel

Cookies formula 1

Cookies formula 2

Cookies formula 3

Cookies formula 4

Kode

A

B

C

D

Kode kombinasi urutan penyajian :

ACBD = 1

BCAD = 2

CDBA = 3

DACB = 4

Penyajian :

| Booth | Panelis | Kode Sampel <small>Urutan penyajian</small> | | | |
|--------------|-------------------------------|--|-----|-----|------------------|
| I | #1, 5, 9, 13, 17, 21, 25, 29 | 862 | 756 | 223 | 554 ¹ |
| II | #2, 6, 10, 14, 18, 22, 26, 30 | 398 | 954 | 245 | 537 ² |
| III | #3, 7, 11, 15, 19, 23, 27 | 266 | 522 | 183 | 458 ³ |
| IV | #4, 8, 12, 16, 20, 24, 28 | 459 | 396 | 174 | 765 ⁴ |

Rekap kode sampel :

| | | | | |
|----------|-----|-----|-----|-----|
| Sampel A | 862 | 245 | 458 | 396 |
| Sampel B | 223 | 398 | 183 | 765 |
| Sampel C | 756 | 954 | 326 | 174 |
| Sampel D | 544 | 537 | 522 | 459 |

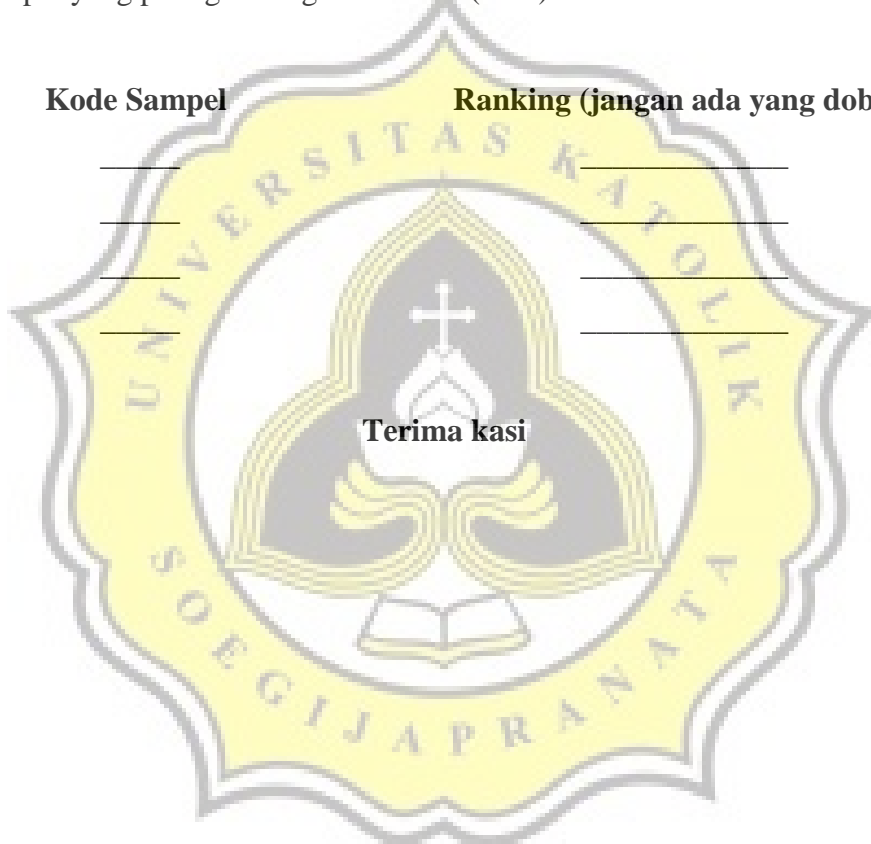
UJI RANKING HEDONIK

Nama : _____ Tanggal : _____
Umur : _____
Produk : *Cookies*
Atribut : Warna

Instruksi :
Di hadapan Anda terdapat 4 jenis sampel *Cookies*. Amati warna sampel secara berurutan dari kiri ke kanan. Setelah mengamati semua sampel, Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling Anda sukai (= 4) hingga sampel yang paling kurang anda sukai (= 1)

Kode Sampel

Ranking (jangan ada yang dobel)



UJI RANKING HEDONIK

Nama : _____ Tanggal : _____
Umur : _____
Produk : *Cookies*
Atribut : Rasa

Instruksi :

Berkumur-kumurlah terlebih dahulu sebelum menguji sampel.

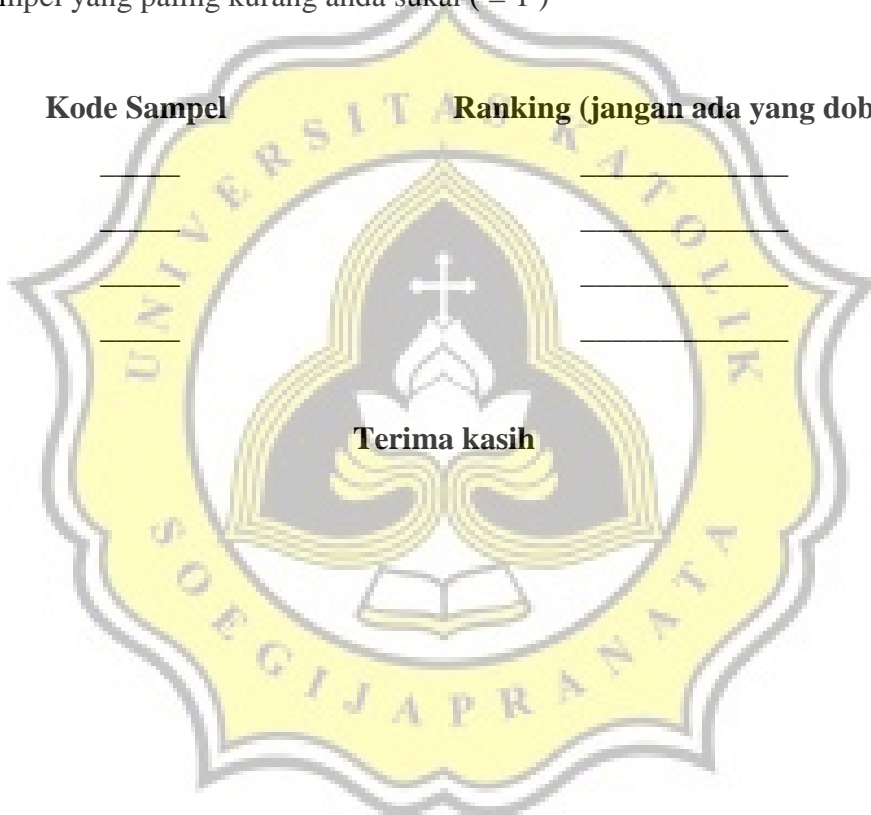
Di hadapan Anda terdapat 4 jenis sampel *Cookies*. Cicipi dan rasakan sampel secara berurutan dari kiri ke kanan. Setelah mengamati semua sampel, Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling Anda sukai (= 4) hingga sampel yang paling kurang anda sukai (= 1)

Kode Sampel

Ranking (jangan ada yang dobel)

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Terima kasih



UJI RANKING HEDONIK

Nama : _____ Tanggal : _____
Umur : _____
Produk : *Cookies*
Atribut : Tekstur

Instruksi :

Berkumur-kumurlah terlebih dahulu sebelum menguji sampel.

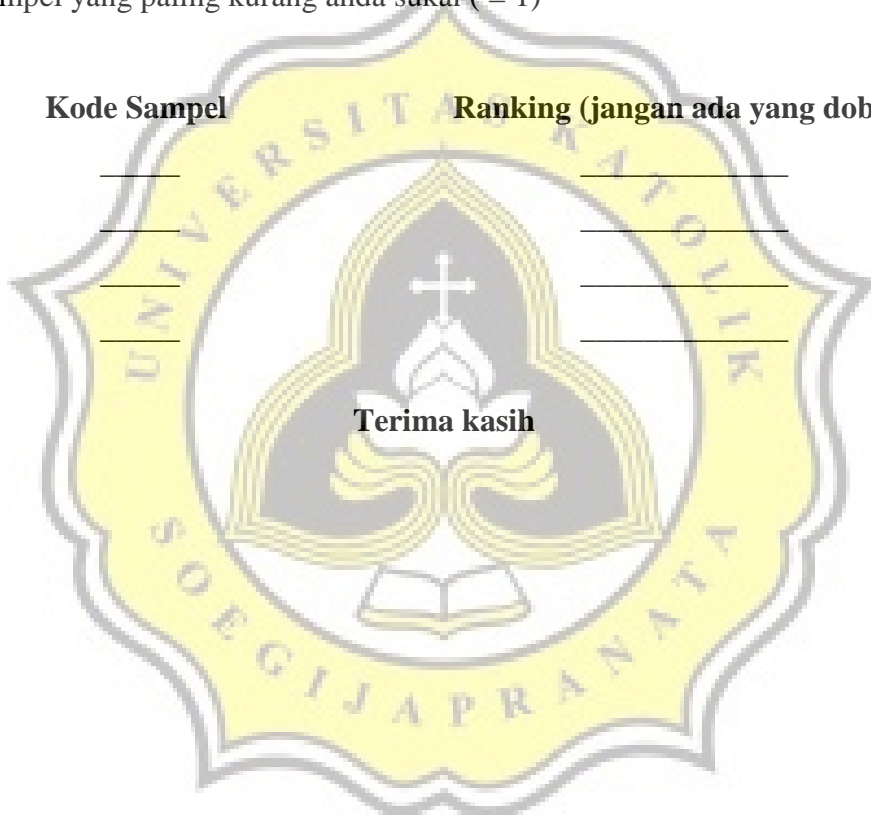
Di hadapan Anda terdapat 4 jenis sampel *Cookies*. Rasakan tekstur sampel secara berurutan dari kiri ke kanan. Setelah mengamati semua sampel, Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling Anda sukai (= 4) hingga sampel yang paling kurang anda sukai (= 1)

Kode Sampel

Ranking (jangan ada yang dobel)

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Terima kasih



UJI RANKING HEDONIK

Nama :
Umur :
Produk : *Cookies*
Atribut : Aroma

Tanggal :

Instruksi :
Di hadapan Anda terdapat 4 jenis sampel *Cookies*. Rasakan sampel secara berurutan dari kiri ke kanan. Setelah mengamati semua sampel, Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling Anda sukai (= 4) hingga sampel yang paling kurang anda sukai (= 1)

Kode Sampel

Ranking (jangan ada yang dobel)



UJI RANKING HEDONIK

Nama :
Umur :
Produk : *Cookies*
Atribut : *Overall*

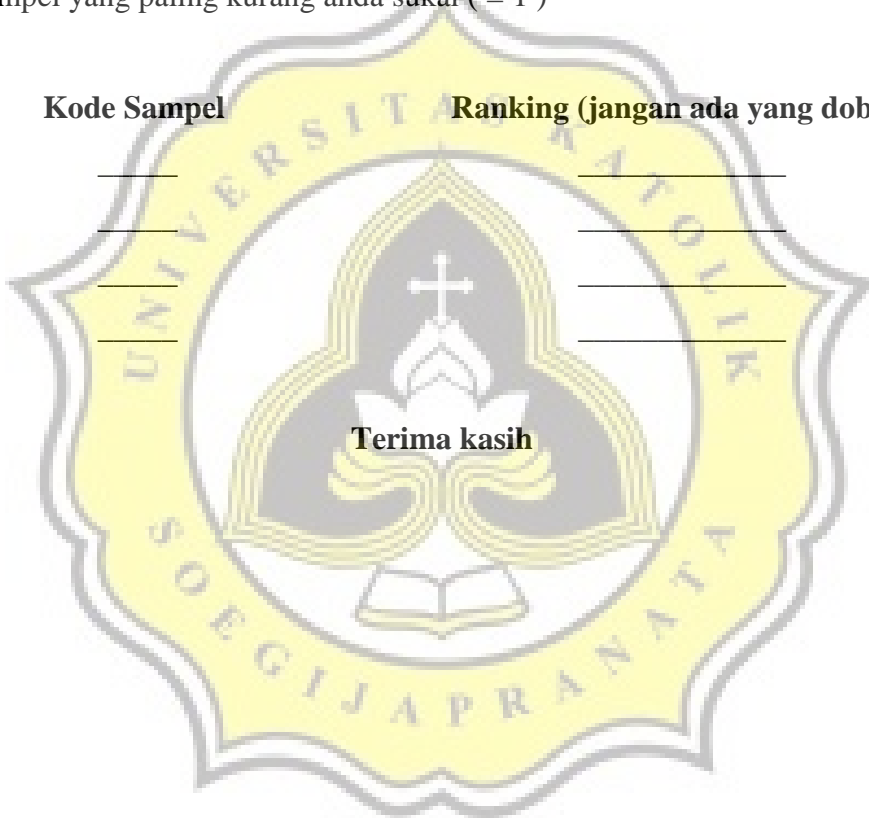
Tanggal :

Instruksi :
Berkumur-kumurlah terlebih dahulu sebelum menguji sampel.
Di hadapan Anda terdapat 4 jenis sampel *Cookies*. Cicipi dan rasakan sampel secara berurutan dari kiri ke kanan. Setelah mengamati semua sampel, Anda boleh mengulang sesering yang Anda perlukan. Urutkan sampel dari yang paling Anda sukai (= 4) hingga sampel yang paling kurang anda sukai (= 1)

Kode Sampel **Ranking (jangan ada yang dobel)**

| | |
|-------|-------|
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |
| _____ | _____ |

Terima kasih



Lampiran 6. Hasil Analisa Organoleptik SPSS Cookies RK

Test Statistics^{a,b}

| | warna | aroma | rasa | tekstur | overall | |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| Chi-Square | 14.410 | 31.133 | 18.404 | 13.242 | 30.991 | |
| Df | 3 | 3 | 3 | 3 | 3 | |
| Asymp. Sig. | .002 | .000 | .000 | .004 | .000 | |
| Sig. | .002 ^c | .000 ^c | .000 ^c | .003 ^c | .000 ^c | |
| Monte Carlo Sig. 99% Confidence Interval | Lower Bound | .001 | .000 | .000 | .002 | .000 |
| | Upper Bound | .003 | .000 | .001 | .004 | .000 |

a. Kruskal Wallis Test

b. Grouping Variable: perlakuan

c. Based on 10000 sampled tables with starting seed 2000000.

a. Antara CK dan CF1

| Test Statistics ^a | | | warna | aroma | rasa | tekstur | overall |
|------------------------------|-------------------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mann-Whitney U | | | 672.000 | 979.000 | 719.500 | 703.500 | 992.000 |
| Wilcoxon W | | | 1707.00 | 2014.00 | 1754.50 | 1738.50 | 2027.00 |
| Z | | | -2.845 | -.285 | -2.448 | -2.598 | -.174 |
| Asymp. Sig. (2-tailed) | | | .004 | .776 | .014 | .009 | .862 |
| Sig. | | | .005 ^a | .797 ^a | .013 ^a | .009 ^a | .869 ^a |
| Monte Carlo Sig. (2-tailed) | 95% Confidence Interval | Lower Bound | .003 | .789 | .011 | .007 | .862 |
| | | Upper Bound | .006 | .805 | .015 | .011 | .875 |
| Sig. | | | .003 ^b | .392 ^b | .007 ^b | .005 ^b | .430 ^b |
| Monte Carlo Sig. (1-tailed) | 95% Confidence Interval | Lower Bound | .002 | .382 | .005 | .004 | .421 |
| | | Upper Bound | .004 | .401 | .008 | .006 | .440 |

a. Grouping Variable: perlakuan

b. Based on 10000 sampled tables with starting seed 221623949.

b. Antara CK dan CF2

+ b. Antara CK dan CF2

| | | | warna | aroma | rasa | tekstur | overall |
|-----------------------------|-------------------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Mann-Whitney U | | | 721.500 | 726.000 | 783.000 | 664.000 | 638.500 |
| Wilcoxon W | | | 1756.500 | 1761.000 | 1818.000 | 1699.000 | 1673.500 |
| Z | | | -2.431 | -2.400 | -1.921 | -2.914 | -3.122 |
| Asymp. Sig. (2-tailed) | | | .015 | .016 | .055 | .004 | .002 |
| | Sig. | | .015 ^b | .015 ^b | .051 ^b | .004 ^b | .001 ^b |
| Monte Carlo Sig. (2-tailed) | 95% Confidence Interval | Lower Bound | .012 | .013 | .047 | .003 | .001 |
| | | Upper Bound | .017 | .018 | .056 | .005 | .002 |
| | | Sig. | .008 ^b | .009 ^b | .025 ^b | .002 ^b | .001 ^b |
| | | | | | | | |
| Monte Carlo Sig. (1-tailed) | 95% Confidence Interval | Lower Bound | .006 | .007 | .022 | .001 | .000 |
| | | Upper Bound | .010 | .011 | .028 | .003 | .001 |
| | | Sig. | | | | | |
| | | | | | | | |

a. Grouping Variable: perlakuan

b. Based on 10000 sampled tables with starting seed 1535910591.

c. Antara CK dan CF3

| | | | warna | aroma | rasa | tekstur | overall |
|-----------------------------|-------------------------|-------------|--------------------|-------------------|-------------------|-------------------|-------------------|
| Mann-Whitney U | | | 1012.500 | 410.000 | 917.500 | 657.500 | 484.500 |
| Wilcoxon W | | | 2047.500 | 1445.000 | 1952.500 | 1692.500 | 1519.500 |
| Z | | | .000 | -5.028 | -.801 | -2.966 | -4.414 |
| Asymp. Sig. (2-tailed) | | | 1.000 | .000 | .423 | .003 | .000 |
| | Sig. | | 1.000 ^b | .000 ^b | .429 ^b | .004 ^b | .000 ^b |
| Monte Carlo Sig. (2-tailed) | 95% Confidence Interval | Lower Bound | 1.000 | .000 | .419 | .002 | .000 |
| | | Upper Bound | 1.000 | .000 | .439 | .005 | .000 |
| | | Sig. | .522 ^b | .000 ^b | .219 ^b | .002 ^b | .000 ^b |
| | | | | | | | |
| Monte Carlo Sig. (1-tailed) | 95% Confidence Interval | Lower Bound | .512 | .000 | .210 | .001 | .000 |
| | | Upper Bound | .531 | .000 | .227 | .003 | .000 |
| | | Sig. | | | | | |
| | | | | | | | |

a. Grouping Variable: perlakuan

b. Based on 10000 sampled tables with starting seed 79654295.

□

d. Antara CF1 dan CF2

| Test Statistics ^a | | | | | | | |
|------------------------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| | | warna | aroma | rasa | tekstur | overall | |
| Mann-Whitney U | | 903.000 | 750.500 | 979.000 | 880.000 | 616.000 | |
| Wilcoxon W | | 1938.000 | 1785.500 | 2014.000 | 1915.000 | 1651.000 | |
| Z | | -.921 | -2.186 | -.282 | -1.107 | -3.315 | |
| Asymp. Sig. (2-tailed) | | .357 | .029 | .778 | .268 | .001 | |
| Monte Carlo Sig. (2-tailed) | Sig. | .360 ^b | .030 ^b | .778 ^b | .276 ^b | .000 ^b | |
| | 95% Confidence Interval | Lower Bound | .350 | .026 | .770 | .267 | .000 |
| | | Upper Bound | .369 | .033 | .786 | .284 | .001 |
| Monte Carlo Sig. (1-tailed) | Sig. | .179 ^b | .015 ^b | .388 ^b | .139 ^b | .000 ^b | |
| | 95% Confidence Interval | Lower Bound | .171 | .013 | .379 | .132 | .000 |
| | | Upper Bound | .186 | .018 | .398 | .145 | .000 |

a. Grouping Variable: perlakuan
b. Based on 10000 sampled tables with starting seed 1310155034.

e. Antara CF1 dan CF3

| Test Statistics ^a | | | | | | | |
|------------------------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| | | warna | aroma | rasa | tekstur | overall | |
| Mann-Whitney U | | 672.000 | 453.500 | 551.500 | 858.500 | 466.000 | |
| Wilcoxon W | | 1707.000 | 1488.500 | 1586.500 | 1893.500 | 1501.000 | |
| Z | | -2.845 | -4.681 | -3.862 | -1.288 | -4.562 | |
| Asymp. Sig. (2-tailed) | | .004 | .000 | .000 | .198 | .000 | |
| Monte Carlo Sig. (2-tailed) | Sig. | .003 ^b | .000 ^b | .000 ^b | .198 ^b | .000 ^b | |
| | 95% Confidence Interval | Lower Bound | .002 | .000 | .000 | .191 | .000 |
| | | Upper Bound | .004 | .000 | .000 | .206 | .000 |
| Monte Carlo Sig. (1-tailed) | Sig. | .002 ^b | .000 ^b | .000 ^b | .099 ^b | .000 ^b | |
| | 95% Confidence Interval | Lower Bound | .001 | .000 | .000 | .093 | .000 |
| | | Upper Bound | .003 | .000 | .000 | .105 | .000 |

a. Grouping Variable: perlakuan
b. Based on 10000 sampled tables with starting seed 1585587178.

f. Antara CF2 dan CF3

| Test Statistics ^a | | | | | | | |
|------------------------------|-------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------|
| | | warna | aroma | rasa | tekstur | overall | |
| Mann-Whitney U | | 721.500 | 756.500 | 601.000 | 1004.000 | 894.500 | |
| Wilcoxon W | | 1756.500 | 1791.500 | 1636.000 | 2039.000 | 1929.500 | |
| Z | | -2.431 | -2.189 | -3.438 | -.072 | -1.005 | |
| Asymp. Sig. (2-tailed) | | .015 | .029 | .001 | .943 | .315 | |
| Monte Carlo Sig. (2-tailed) | Sig. | .017 ^b | .030 ^b | .001 ^b | .963 ^b | .324 ^b | |
| | 95% Confidence Interval | Lower Bound | .014 | .026 | .000 | .960 | .315 |
| | | Upper Bound | .020 | .033 | .001 | .967 | .334 |
| Monte Carlo Sig. (1-tailed) | Sig. | .009 ^b | .015 ^b | .000 ^b | .482 ^b | .162 ^b | |
| | 95% Confidence Interval | Lower Bound | .007 | .013 | .000 | .472 | .155 |
| | | Upper Bound | .011 | .018 | .000 | .492 | .169 |

a. Grouping Variable: perlakuan
b. Based on 10000 sampled tables with starting seed 1451419960.

Lampiran 7. Hasil Analisa Ragam Dua Arah dengan Uji Lanjut Duncan antara Batch 1 dan Batch 2.

kadar_air

Duncan

| Sampel | N | Subset for alpha = 0.05 | | | |
|--------|---|-------------------------|--------|--------|--------|
| | | 1 | 2 | 3 | 4 |
| B2 CF2 | 3 | 2,1000 | | | |
| B1 CF2 | 3 | 2,2533 | 2,2533 | | |
| B1 CF1 | 3 | | 2,5400 | 2,5400 | |
| B2 CF1 | 3 | | | 2,8133 | |
| B2 CK | 3 | | | | 3,2467 |
| B1 CK | 3 | | | | 3,4000 |
| Sig. | | .372 | .109 | .124 | .372 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

kadar_abu

Duncan

| Sampel | N | Subset for alpha = 0.05 | | |
|--------|---|-------------------------|----------|----------|
| | | 1 | 2 | 3 |
| B2 CK | 3 | 1.333,33 | | |
| B1 CK | 3 | 1.377,67 | | |
| B2 CF1 | 3 | | 1.573,33 | |
| B1 CF1 | 3 | | 1.611,00 | |
| B1 CF2 | 3 | | | 1.788,67 |
| B2 CF2 | 3 | | | 1.813,33 |
| Sig. | | .506 | .571 | .710 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

kadar_protein

Duncan

| sampel | N | Subset for alpha = 0.05 | | |
|--------|---|-------------------------|----------|----------|
| | | 1 | 2 | 3 |
| B2 CF2 | 3 | 3.677,00 | | |
| B1 CF2 | 3 | 3.793,67 | | |
| B1 CF1 | 3 | | 4.377,33 | |
| B2 CF1 | 3 | | 4.494,33 | |
| B1 CK | 3 | | | 5.953,33 |
| B2 CK | 3 | | | 6.012,00 |
| Sig. | | .637 | .636 | .812 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

kadar lemak

Duncan

| sampel | N | Subset for alpha = 0.05 |
|--------|---|-------------------------|
| | | 1 |
| B1 CF2 | 3 | 27,0667 |
| B1 CF1 | 3 | 27,2000 |
| B2 CK | 3 | 27,6333 |
| B2 CF2 | 3 | 28,2333 |
| B1 CK | 3 | 29,3000 |
| B2 CF1 | 3 | 29,5333 |
| Sig. | | .050 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

kadar_karbo

Duncan

| Sampel | N | Subset for alpha = 0.05 | |
|--------|---|-------------------------|----------|
| | | 1 | 2 |
| B1 CK | 3 | 59,96667 | |
| B2 CK | 3 | 61,77333 | |
| B2 CF1 | 3 | 61,85667 | |
| B2 CF2 | 3 | | 64,17667 |
| B1 CF1 | 3 | | 64,27333 |
| B1 CF2 | 3 | | 65,10000 |
| Sig. | | .062 | .336 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

kadar_beta

Duncan

| Sampel | N | Subset for alpha = 0.05 | | |
|--------|---|-------------------------|---------|---------|
| | | 1 | 2 | 3 |
| B2 CK | 3 | ,58333 | | |
| B1 CK | 3 | ,70333 | | |
| B1 CF1 | 3 | | 4,84967 | |
| B2 CF1 | 3 | | 5,15167 | |
| B1 CF2 | 3 | | | 6,84233 |
| B2 CF2 | 3 | | | 6,95933 |
| Sig. | | .551 | .149 | .561 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

aktv_antioksidan

Duncan

| sampel | N | Subset for alpha = 0.05 | | |
|--------|---|-------------------------|-----------|-----------|
| | | 1 | 2 | 3 |
| B1 CK | 3 | 1667.6667 | | |
| B2 CK | 3 | 1698.3333 | | |
| B1 CF1 | 3 | | 2569.3333 | |
| B2 CF1 | 3 | | 2681.3333 | |
| B1 CF2 | 3 | | | 3389.6667 |
| B2 CF2 | 3 | | | 3486.0000 |
| Sig. | | .612 | .082 | .128 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

warna_L

Duncan

| sampel | N | Subset for alpha = 0.05 | | |
|--------|---|-------------------------|----------|----------|
| | | 1 | 2 | 3 |
| B1 CF2 | 3 | 64,44333 | | |
| B2 CF2 | 3 | 65,15667 | | |
| B1 CF1 | 3 | | 68,81667 | |
| B2 CF1 | 3 | | 69,19000 | |
| B1 CK | 3 | | | 71,21667 |
| B2 CK | 3 | | | 72,18667 |
| Sig. | | .199 | .490 | .089 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

warna_a

Duncan

| Sampel | N | Subset for alpha = 0.05 | | | |
|--------|---|-------------------------|---------|---------|---------|
| | | 1 | 2 | 3 | 4 |
| B1 CK | 3 | ,61667 | | | |
| B2 CK | 3 | ,79033 | | | |
| B1 CF1 | 3 | | 2,97667 | | |
| B2 CF1 | 3 | | | 3,42000 | |
| B1 CF2 | 3 | | | | 4,10000 |
| B2 CF2 | 3 | | | | 4,25667 |
| Sig. | | .235 | 1.000 | 1.000 | .282 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

warna_b

Duncan

| Sampel | N | Subset for alpha = 0.05 | | |
|--------|---|-------------------------|----------|----------|
| | | 1 | 2 | 3 |
| B2 CK | 3 | 30,02000 | | |
| B1 CK | 3 | 30,66667 | | |
| B1 CF1 | 3 | | 44,81000 | |
| B2 CF1 | 3 | | 45,43000 | |
| B1 CF2 | 3 | | | 46,92667 |
| B2 CF2 | 3 | | | 47,49000 |
| Sig. | | .305 | .324 | .369 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

hardness

Duncan

| sampel | N | Subset for alpha = 0.05 | | |
|--------|---|-------------------------|------------|------------|
| | | 1 | 2 | 3 |
| B1 CK | 3 | 1226.44867 | | |
| B2 CK | 3 | 1337.32667 | | |
| B1 CF1 | 3 | | 2010.54300 | |
| B2 CF1 | 3 | | 2108.30700 | |
| B2 CF2 | 3 | | | 3148.01533 |
| B1 CF2 | 3 | | | 3185.13133 |
| Sig. | | .217 | .273 | .670 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3.000.

7.1.1. Hasil Analisa Ragam Dua Arah dengan Uji Lanjut Duncan antar Formulasi**kadar_air**

Duncan

| sampel | N | Subset for alpha = 0.05 | | |
|-------------|---|-------------------------|--------|--------|
| | | 1 | 2 | 3 |
| formulasi 2 | 6 | 2,1767 | | |
| formulasi 1 | 6 | | 2,6767 | |
| kontrol | 6 | | | 3,3233 |
| Sig. | | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

kadar_abu

Duncan

| Sampel | N | Subset for alpha = 0.05 | | |
|-------------|---|-------------------------|----------|----------|
| | | 1 | 2 | 3 |
| Kontrol | 6 | 1.355,50 | | |
| formulasi 1 | 6 | | 1.592,17 | |
| formulasi 2 | 6 | | | 1.801,00 |
| Sig. | | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

kadar_protein

Duncan

| Sampel | N | Subset for alpha = 0.05 | | |
|-------------|---|-------------------------|----------|----------|
| | | 1 | 2 | 3 |
| formulasi 2 | 6 | 3.735,33 | | |
| formulasi 1 | 6 | | 4.435,83 | |
| Kontrol | 6 | | | 5.982,67 |
| Sig. | | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

kadar lemak

Duncan

| Sampel | N | Subset for alpha = 0.05 |
|-------------|---|-------------------------|
| | | 1 |
| formulasi 2 | 6 | 27,6500 |
| formulasi 1 | 6 | 28,3667 |
| Kontrol | 6 | 28,4667 |
| Sig. | | .382 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

kadar_karbohidrat

Duncan

| sampel | N | Subset for alpha = 0.05 | |
|-------------|---|-------------------------|----------|
| | | 1 | 2 |
| kontrol | 6 | 60,87000 | |
| formulasi 1 | 6 | | 63,06500 |
| formulasi 2 | 6 | | 64,63833 |
| Sig. | | 1.000 | .068 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

kadar_beta

Duncan

| sampel | N | Subset for alpha = 0.05 | | |
|-------------|---|-------------------------|----------|----------|
| | | 1 | 2 | 3 |
| kontrol | 6 | 643,33 | | |
| formulasi 1 | 6 | | 5.009,33 | |
| formulasi 2 | 6 | | | 7.126,17 |
| Sig. | | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

aktv_ant

Duncan

| sampel | N | Subset for alpha = 0.05 | | |
|-------------|---|-------------------------|---------|---------|
| | | 1 | 2 | 3 |
| kontrol | 6 | 1683.00 | | |
| formulasi 1 | 6 | | 2625.33 | |
| formulasi 2 | 6 | | | 3437.83 |
| Sig. | | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

warna_L

Duncan

| Sampel | N | Subset for alpha = 0.05 | | |
|-------------|---|-------------------------|-----------|-----------|
| | | 1 | 2 | 3 |
| formulasi 2 | 6 | 64.800,00 | | |
| formulasi 1 | 6 | | 69.003,33 | |
| Kontrol | 6 | | | 71.701,67 |
| Sig. | | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

warna_a

Duncan

| Sampel | N | Subset for alpha = 0.05 | | |
|-------------|---|-------------------------|----------|----------|
| | | 1 | 2 | 3 |
| Kontrol | 6 | 730,17 | | |
| formulasi 1 | 6 | | 3.198,33 | |
| formulasi 2 | 6 | | | 4.178,33 |
| Sig. | | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

warna_b

Duncan

| Sampel | N | Subset for alpha = 0.05 | | |
|-------------|---|-------------------------|-----------|-----------|
| | | 1 | 2 | 3 |
| Kontrol | 6 | 30.343,33 | | |
| formulasi 1 | 6 | | 45.120,00 | |
| formulasi 2 | 6 | | | 47.208,33 |
| Sig. | | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

hardness

Duncan

| Sampel | N | Subset for alpha = 0.05 | | |
|-------------|---|-------------------------|------------|------------|
| | | 1 | 2 | 3 |
| Kontrol | 6 | 1281887.67 | | |
| formulasi 1 | 6 | | 2059425.00 | |
| formulasi 2 | 6 | | | 3166573.33 |
| Sig. | | 1.000 | 1.000 | 1.000 |

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 6.000.

7.1.2. Uji Normalitas

| Tests of Normality | | | | | | | |
|--------------------|-------------|---------------------------------|----|-------|--------------|----|------|
| | Sampel | Kolmogorov-Smirnov ^a | | | Shapiro-Wilk | | |
| | | Statistic | df | Sig. | Statistic | df | Sig. |
| kadar_air | Kontrol | .222 | 6 | .200* | .872 | 6 | .234 |
| | formulasi 1 | .185 | 6 | .200* | .937 | 6 | .638 |
| | formulasi 2 | .219 | 6 | .200* | .929 | 6 | .572 |
| kadar_abu | Kontrol | .265 | 6 | .200* | .906 | 6 | .412 |
| | formulasi 1 | .368 | 6 | .011 | .795 | 6 | .053 |
| | formulasi 2 | .179 | 6 | .200* | .947 | 6 | .718 |
| kadar_protein | Kontrol | .302 | 6 | .093 | .775 | 6 | .035 |
| | formulasi 1 | .232 | 6 | .200* | .840 | 6 | .130 |
| | formulasi 2 | .209 | 6 | .200* | .907 | 6 | .415 |
| kadar lemak | Kontrol | .296 | 6 | .108 | .864 | 6 | .203 |
| | formulasi 1 | .242 | 6 | .200* | .900 | 6 | .374 |
| | formulasi 2 | .294 | 6 | .116 | .882 | 6 | .280 |
| kadar_karbohidrat | Kontrol | .360 | 6 | .014 | .782 | 6 | .040 |
| | formulasi 1 | .260 | 6 | .200* | .840 | 6 | .130 |
| | formulasi 2 | .158 | 6 | .200* | .949 | 6 | .731 |
| kadar_beta | Kontrol | .161 | 6 | .200* | .950 | 6 | .740 |
| | formulasi 1 | .164 | 6 | .200* | .926 | 6 | .549 |
| | formulasi 2 | .232 | 6 | .200* | .910 | 6 | .434 |
| aktv_ant | Kontrol | .260 | 6 | .200* | .817 | 6 | .083 |
| | formulasi 1 | .186 | 6 | .200* | .933 | 6 | .600 |
| | formulasi 2 | .265 | 6 | .200* | .902 | 6 | .385 |

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

a. Lilliefors Significance Correction

Lampiran 8. Perhitungan Rendemen

Berat Labu Kuning Segar = 4500 g (100%)

Berat Rendemen total = 275 g (6,1%)

Berat Rendemen Kasar = 115 g (41,8%)

Berat Rendemen Halus (tepung) = 160 g (58,2%)

Rumus Perhitungan :

$$\text{Rendemen (\% b/b)} = \frac{\text{Berat Akhir Produk (gram)}}{\text{Berat Awal Produk (gram)}} \times 100\%$$

$$\begin{aligned} \text{Rendemen (\% b/b)} &= \frac{275 \text{ g}}{4500 \text{ g}} \times 100\% \\ &= 6.1 \% \end{aligned}$$

