**Lampiran 8. Hasil Penelitian Pendahuluan (Uji Vitamin C, Metode Iodimetri)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Hari** | **Sampel** | **W Sampel (g)** | **Vs(mL)** | **Kadar Vitamin C (mg/100 g bahan)** |
| **6** | Kontrol | 5,00 | 0,45 | 79,25 |
| CaCl2 0% | 5,00 | 0,95 | 167,32 |
| CaCl2 0,5% | 5,00 | 1,24 | 218,40 |
| CaCl2 1% | 5,00 | 1,25 | 220,16 |
| CaCl2 1,5% | 5,00 | 1,00 | 176,13 |
| CaCl2 2% | 5,00 | 1,00 | 176,13 |

**Perhitungan :**

Kontrol $=\frac{(0,45×0,1)×88,065}{5}×100\%=79,25$

CaCl2 0% $=\frac{(0,95×0,1)×88,065}{5}×100\%=167,32$

CaCl2 0,5% $=\frac{(1,24×0,1)×88,065}{5}×100\%=218,40$

CaCl2 1% $=\frac{(1,25×0,1)×88,065}{5}×100\%=220,16$

CaCl2 1,5% $=\frac{(1,00×0,1)×88,065}{5}×100\%=176,13$

CaCl2 2% $=\frac{(1,00×0,1)×88,065}{5}×100\%=176,13$

**Lampiran 9. Hasil Penelitian Utama Analisis Kimia (Uji Vitamin C, Metode Iodimetri)**

**Analisis Kadar Vitamin C Hari ke-6**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ulangan** | **Sampel** | **W Sampel (g)** | **Vs (mL)** | **Kadar Vitamin C (mg/100 g bahan)** |
| **1** | a1b1 | 5,00 | 0,9 | 158,51 |
| a1b2 | 5,00 | 1,0 | 176,13 |
| a1b3 | 5,00 | 1,1 | 193,74 |
| a2b1 | 5,00 | 1,2 | 211,35 |
| a2b2 | 5,00 | 1,3 | 228,96 |
| a2b3 | 5,00 | 0,7 | 123,29 |
| **2** | a1b1 | 5,00 | 0,7 | 123,30 |
| a1b2 | 5,00 | 1,0 | 177,30 |
| a1b3 | 5,00 | 0,6 | 105,67 |
| a2b1 | 5,00 | 1,1 | 193,74 |
| a2b2 | 5,00 | 1,0 | 177,30 |
| a2b3 | 5,00 | 1,1 | 193,74 |
| **3** | a1b1 | 5,00 | 0,5 | 88,07 |
| a1b2 | 5,00 | 0,9 | 158,51 |
| a1b3 | 5,00 | 0,5 | 88,07 |
| a2b1 | 5,00 | 1,1 | 193,74 |
| a2b2 | 5,00 | 0,9 | 158,51 |
| a2b3 | 5,00 | 0,7 | 123,30 |
| **4** | a1b1 | 5,00 | 0,8 | 140,90 |
| a1b2 | 5,00 | 0,7 | 123,30 |
| a1b3 | 5,00 | 0,4 | 70,45 |
| a2b1 | 5,00 | 0,9 | 158,51 |
| a2b2 | 5,00 | 0,8 | 140,90 |
| a2b3 | 5,00 | 0,5 | 88,07 |

Perhitungan :

**Ulangan I**

*Single coating* (5°C) $=\frac{(0,9×0,1)×88,065}{5}×100\%=158,51$

*Single coating* (10°C) $=\frac{(1,0 ×0,1)×88,065}{5}×100\%=176,13$

*Single coating* (suhu ruang) $=\frac{(1,1×0,1)×88,065}{5}×100\%=193,74$

*Double coating* (5°C) $=\frac{(1,2×0,1)×88,065}{5}×100\%=211,35$

*Double coating* (10°C) $=\frac{(1,3×0,1)×88,065}{5}×100\%=228,96$

*Double coating* (suhu ruang) $=\frac{(0,7×0,1)×88,065}{5}×100\%=123,29$

**Ulangan II**

*Single coating* (5°C) $=\frac{(0,7×0,1)×88,065}{5}×100\%=123,30$

*Single coating* (10°C) $=\frac{(1,0×0,1)×88,065}{5}×100\%=177,30$

*Single coating* (suhu ruang) $=\frac{(0,6×0,1)×88,065}{5}×100\%=105,67$

*Double coating* (5°C) $=\frac{(1,1×0,1)×88,065}{5}×100\%=193,74$

*Double coating* (10°C) $=\frac{(1,00×0,1)×88,065}{5}×100\%=177,30$

*Double coating* (suhu ruang) $=\frac{(1,1×0,1)×88,065}{5}×100\%=193,74$

**Ulangan III**

*Single coating* (5°C) $=\frac{(0,5×0,1)×88,065}{5}×100\%=88,07$

*Single coating* (10°C) $=\frac{(0,9×0,1)×88,065}{5}×100\%=158,51$

*Single coating* (suhu ruang) $=\frac{(0,5×0,1)×88,065}{5}×100\%=88,07$

*Double coating* (5°C) $=\frac{(1,1×0,1)×88,065}{5}×100\%=193,74$

*Double coating* (10°C) $=\frac{(0,90×0,1)×88,065}{5}×100\%=158,51$

*Double coating* (suhu ruang) $=\frac{(0,7×0,1)×88,065}{5}×100\%=123,30$

**Ulangan IV**

*Single coating* (5°C) $=\frac{(0,8×0,1)×88,065}{5}×100\%=140,90$

*Single coating* (10°C) $=\frac{(0,7×0,1)×88,065}{5}×100\%=123,30$

*Single coating* (suhu ruang) $=\frac{(0,4×0,1)×88,065}{5}×100\%=70,45$

*Double coating* (5°C) $=\frac{(0,9×0,1)×88,065}{5}×100\%=158,51$

*Double coating* (10°C) $=\frac{(0,8×0,1)×88,065}{5}×100\%=140,90$

*Double coating* (suhu ruang) $=\frac{(0,5×0,1)×88,065}{5}×100\%=88,07$

Tabel 44. Data Hasil Pengamatan Uji Vitamin C Buah Potong Pepaya Hari Ke-6

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Jumlah Pelapisan (A)** | **Suhu Penyimpanan (B)** | **Ulangan** | **Total** | **Rata-rata** |
| **1** | **2** | **3** | **4** |
| **a1** | b1 | 158,51 | 123,3 | 88,07 | 140,9 | **510,775** | **127,694** |
| b2 | 176,13 | 177,3 | 158,51 | 123,3 | **635,24** | **158,81** |
| b3 | 193,74 | 105,67 | 88,065 | 70,452 | **457,927** | **114,482** |
| **a2** | b1 | 211,35 | 193,74 | 193,74 | 158,51 | **757,34** | **189,335** |
| b2 | 228,96 | 177,3 | 158,51 | 140,9 | **705,67** | **176,418** |
| b3 | 123,29 | 193,74 | 123,3 | 88,065 | **528,395** | **132,099** |
| **Total**  |  | **1091,98** | **971,05** | **810,19** | **722,127** | **3595,35** |   |

|  |  |  |  |
| --- | --- | --- | --- |
| **Faktor** | **B** | **Total** | **Rata-rata** |
| **A** | **b1** | **b2** | **b3** |
| **a1** | 510,78 | 635,24 | 457,93 | 1603,94 | 534,65 |
| **a2** | 757,34 | 705,67 | 528,40 | 1991,41 | 663,80 |
| **Total** | 1268,12 | 1340,91 | 986,32 | 3595,35 |   |
| **Rata-Rata** | 634,06 | 670,46 | 493,16 |   |   |

Dengan perhitungan yang sama, diperoleh anava :

Tabel 45.Analisis Variansi (ANAVA) Uji Vitamin C Buah Potong Pepaya hari ke-6

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sumber Keragaman** | **Db** | **JK** | **KT** | **F hitung** | **F Tabel 5%** |
|
| **Kelompok** | 3 | 13600,608 |   |   |   |
| **Perlakuan** | 5 | 17608,347 |   |   |   |
| **Faktor A** | 1 | 6255,316 | 6255,316 | 8,004 \* | 4,54 |
| **Faktor B** | 2 | 8768,294 | 4384,147 | 5,610 \* | 3,68 |
| **Interaksi A x B** | 2 | 2584,737 | 1292,369 | 1,654 tn | 3,68 |
| **Galat** | 15 | 11723,014 | 781,534 |   |   |
| **Total** | 23 | 42931,970 |   |   |   |

Keterangan : (\*) berbeda nyata

 (tn) tidak berbeda nyata

Kesimpulan : Berdasarkan tabel ANAVA diketahui bahwa F hitung > F tabel 5% terhadap faktor A dan faktor B. Hal ini berarti jumlah pelapisan dan suhu penyimpanan berbeda nyata terhadap kadar vitamin C buah potong pepaya sehingga perlu dilakukan uji lanjut Duncan.

Sy $=\frac{\sqrt{KTG}}{b×r}$ = $\frac{781,534}{3×4}$ = 8,07

Tabel 46. Uji Lanjut Duncan Faktor A

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| SSR | LSR | Rata-rata Perlakuan |   | Perlakuan  | Taraf 5% |
| 5% | 5% | kode  | rata-rata | 1 |  2 |   |
|  -  |  -  | a1 | 534.65 |  - | -  | a |
| 3.01  |  24.29  | a2 | 663.80 | 129.15 \* | - | b |

Kesimpulan : Berdasarkan uji lanjut Duncan, diketahui bahwa masing-masing perlakuan jumlah pelapisan berbeda nyata pada taraf 5%.

Sy $=\frac{\sqrt{KTG}}{b×r}$ = $\frac{781,534}{3×4}$ = 8,07

Tabel 47. Uji Lanjut Duncan Faktor B

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SSR | LSR | Rata-rata Perlakuan | Perlakuan |   |   | Taraf 5% |
| 5% | 5% | kode  | rata-rata | 1 |  2 | 3 |
|  -  |  -  | b3 | 493.16 |  - |  - |  - | a |
| 3.01  |  24.29  | b1 | 634.06 | 140.90 \* | - |  - | b |
| 3.16 | 25.50 | b2 | 670.46 | 177.29 \* | 36.04 \* | - | c |

Kesimpulan : Berdasarkan uji lanjut Duncan, diketahui bahwa masing-masing perlakuan suhu penyimpanan berbeda nyata pada taraf 5%.

**Lampiran 10. Hasil Penelitian Utama Analisis Mikrobiologi (Jumlah Mikroorganisme Metode TPC)**

**Analisis Jumlah Mikroorganisme Hari ke-6**

|  |
| --- |
| **ULANGAN 1** |
| a1b1/578 | 10^(-1) | 740 | 3 | syarat 3 |   |   |   |
| 10^(-2) | 602 | 3 |   |  | Σ koloni/sel | 448000 |
| 10^(-3) | 448 | 3 |   |   |   | 4,48x10^5 cfu/ml |
| a1b2/304 | 10^(-1) | 765 | 3 | syarat 3 |   |   |   |
| 10^(-2) | 588 | 3 |   |  | Σ koloni/sel | 469000 |
| 10^(-3) | 469 | 3 |   |   |   | 4,69x10^5 cfu/ml |
| a1b3/845 | 10^(-1) | 1470 | 3 | syarat 3 |   |   |   |
| 10^(-2) | 1321 | 3 |   |  | Σ koloni/sel | 1088000 |
| 10^(-3) | 1088 | 3 |   |   |   | 10,88x10^5 cfu/ml |
| a2b1/242 | 10^(-1) | 466 | 3 | syarat 3 |   |   |   |
| 10^(-2) | 391 | 3 |  |  | Σ koloni/sel | 39100 |
| 10^(-3) | 288 | 2 |   |   |   | 3,91x10^4 cfu/ml |
| a2b2/343 | 10^(-1) | 370 | 3 | syarat 2 | A | 6,76 | a>2 |
| 10^(-2) | 287 | 2 |   |  | Σ koloni/sel | 28700 |
| 10^(-3) | 194 | 2 |   |   |   | 2,87x10^4 cfu/ml |
| a2b3/921 | 10^(-1) | 1011 | 3 | syarat 3 |   |   |   |
| 10^(-2) | 909 | 3 |   |  | Σ koloni/sel | 880000 |
| 10^(-3) | 880 | 3 |   |   |   | 8,80x10^5 cfu/ml |

|  |
| --- |
| **ULANGAN 2** |
| a1b1/578 | 10^(-1) | 567 | 3 | syarat 3 |   |   |   |
| 10^(-2) | 472 | 3 |   |  | Σ koloni/sel | 330000 |
| 10^(-3) | 330 | 3 |   |   |   | 3,3x10^5 cfu/ml |
| a1b2/304 | 10^(-1) | 348 | 3 | syarat 2 | A | 4,55 | a>2 |
| 10^(-2) | 220 | 2 |   |  | Σ koloni/sel | 22000 |
| 10^(-3) | 100 | 2 |   |   |   | 2,2x10^4 cfu/ml |
| a1b3/845 | 10^(-1) | 1560 | 3 | syarat 3 |   |   |   |
| 10^(-2) | 1280 | 3 |   |  | Σ koloni/sel | 966000 |
| 10^(-3) | 966 | 3 |   |   |   | 9,66x10^5 cfu/ml |
| a2b1/242 | 10^(-1) | 285 | 2 | syarat 2 | A | 50,53 | a>2 |
| 10^(-2) | 204 | 2 |   |  | Σ koloni/sel | 2850 |
| 10^(-3) | 144 | 2 |   |   |   | 2,85x10^3 cfu/ml |
| a2b2/343 | 10^(-1) | 110 | 2 | syarat 2 | A | 8 | a>2 |
| 10^(-2) | 88 | 2 |   |  | Σ koloni/sel | 1100 |
| 10^(-3) | 30 | 1 |   |   |   | 1,1x10^3 cfu/ml |
| a2b3/921 | 10^(-1) | 1156 | 3 | syarat 3 |   |   |   |
| 10^(-2) | 706 | 3 |   |  | Σ koloni/sel | 518000 |
| 10^(-3) | 518 | 3 |   |   |   | 5,18x10^5 cfu/ml |

|  |
| --- |
| **ULANGAN 3** |
| a1b1/578 | 10^(-1) | 401 | 3 | syarat 2 | A | 3,61 | a>2 |
| 10^(-2) | 277 | 2 |   |  | Σ koloni/sel | 27700 |
| 10^(-3) | 100 | 2 |   |   |   | 2,77x10^4 cfu/ml |
| a1b2/304 | 10^(-1) | 142 | 2 | syarat 2 | A | 46,48 | a>2 |
| 10^(-2) | 106 | 2 |   |  | Σ koloni/sel | 1420 |
| 10^(-3) | 66 | 2 |   |   |   | 1,42x10^3 cfu/ml |
| a1b3/845 | 10^(-1) | 2521 | 3 | syarat 3 |   |   |   |
| 10^(-2) | 1960 | 3 |   |  | Σ koloni/sel | 1774000 |
| 10^(-3) | 1774 | 3 |   |   |   | 1,774x10^6 cfu/ml |
| a2b1/242 | 10^(-1) | 203 | 2 | syarat 2 | A | 19,70 | a>2 |
| 10^(-2) | 80 | 2 |   |  | Σ koloni/sel | 2030 |
| 10^(-3) | 40 | 2 |   |   |   | 2,03x10^3 cfu/ml |
| a2b2/343 | 10^(-1) | 117 | 2 | syarat 2 | A | 36,75 | a>2 |
| 10^(-2) | 79 | 2 |   |  | Σ koloni/sel | 1170 |
| 10^(-3) | 43 | 2 |   |   |   | 1,17x10^3 cfu/ml |
| a2b3/921 | 10^(-1) | 1777 | 3 | syarat 3 |   |   |   |
| 10^(-2) | 867 | 3 |   |  | Σ koloni/sel | 688000 |
| 10^(-3) | 688 | 3 |   |   |   | 6,88x10^5 cfu/ml |

|  |
| --- |
| **ULANGAN 4** |
| a1b1/578 | 10^(-1) | 450 | 3 | syarat 3 |   |   |   |
| 10^(-2) | 377 | 3 |   |  | Σ koloni/sel | 37700 |
| 10^(-3) | 250 | 2 |   |   |   | 3,77x10^4 cfu/ml |
| a1b2/304 | 10^(-1) | 402 | 3 | syarat 3 |   |   |   |
| 10^(-2) | 341 | 3 |   |  | Σ koloni/sel | 34100 |
| 10^(-3) | 210 | 2 |   |   |   | 3,41x10^4 cfu/ml |
| a1b3/845 | 10^(-1) | 1478 | 3 | syarat 3 |   |   |   |
| 10^(-2) | 1230 | 3 |   |  | Σ koloni/sel | 1010000 |
| 10^(-3) | 1010 | 3 |   |   |   | 1,01x10^6 cfu/ml |
| a2b1/242 | 10^(-1) | 180 | 2 | syarat 2 | A | 46,11 | a>2 |
| 10^(-2) | 105 | 2 |   |  | Σ koloni/sel | 1800 |
| 10^(-3) | 83 | 2 |   |   |   | 1,8x10^3 cfu/ml |
| a2b2/343 | 10^(-1) | 155 | 2 | syarat 2 | A | 42,58 | a>2 |
| 10^(-2) | 93 | 2 |   |  | Σ koloni/sel | 1550 |
| 10^(-3) | 66 | 2 |   |   |   | 1,55x10^3 cfu/ml |
| a2b3/921 | 10^(-1) | 1333 | 3 | syarat 3 |   |   |   |
| 10^(-2) | 1089 | 3 |   |  | Σ koloni/sel | 978000 |
| 10^(-3) | 978 | 3 |   |   |   | 9,78x10^5 cfu/ml |

Tabel 48. Data Hasil Pengamatan Jumlah Mikroorganisme Buah Potong Pepaya Hari Ke-6

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Jumlah Pelapisan (A)** | **Suhu Penyimpanan (B)** | **Kelompok Ulangan** | **Total**  | **Rata-rata** |
| 1 | 2 | 3 | 4 |
| a1 | b1 | 448000 | 330000 | 27700 | 37700 | 843400 | 281133 |
| b2 | 469000 | 22000 | 1420 | 34100 | 526520 | 175507 |
| b3 | 1088000 | 966000 | 1774000 | 1010000 | 4838000 | 1612667 |
| a2 | b1 | 39100 | 2850 | 2030 | 1800 | 45780 | 15260 |
| b2 | 28700 | 1100 | 1170 | 1550 | 32520 | 10840 |
| b3 | 880000 | 518000 | 688000 | 978000 | 3064000 | 1021333 |
| **Total** | **2952800** | **1839950** | **2494320** | **2063150** | **9350220** | **2337555** |

|  |  |  |  |
| --- | --- | --- | --- |
| **Jumlah Pelapisan (A)** | **Suhu Penyimpanan (B)** | **Total**  | **Rata-rata** |
| b1 | b2 | b3 |
| a1 | 843400 | 526520 | 4838000 | 6207920 | 2069307 |
| a2 | 45780 | 32520 | 3064000 | 3142300 | 1047433 |
| **Total** | **889180** | **559040** | **7902000** |   |   |
| **Rata-rata** | **444590** | **279520** | **3951000** |   |   |

Dengan perhitungan yang sama, diperoleh anava :

Tabel 49. Analisis Variansi(ANAVA) Jumlah Mikroorganisme Buah Potong Pepaya hari ke-6

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sumber Variasi** | **DB** | **JK** | **KT** | **F Hitung** | **F tabel** |
| **5%** |
| **Kelompok** | 3 | 121001752550 | 40333917517 | - |   |
| **Faktor A** | 1 | 391584416017 | 391584416017 | 8,10 \* | 4,54 |
| **Faktor B** | 2 | 4300320763900 | 2150160381950 | 44,49 \* | 3,68 |
| **Interaksi AB** | 2 | 111829292033 | 55914646017 | 1,16 tn | 3,68 |
| **Galat** | 15 | 724891561350 | 48326104090 |   |   |
| **Total** | 23 | 5649627785850 |   |   |   |

Keterangan : (\*) berbeda nyata

 (tn) tidak berbeda nyata

Kesimpulan : Berdasarkan tabel ANAVA diketahui bahwa F hitung > F tabel 5% terhadap faktor A dan faktor B. Hal ini berarti jumlah pelapisan dan suhu penyimpanan berbeda nyata terhadap jumlah mikroorganisme buah potong pepaya sehingga perlu dilakukan uji lanjut Duncan.

Sy $=\frac{\sqrt{KTG}}{b×r}$ = $\frac{781,534}{3×4}$ = 8,07

Tabel 50. Uji Lanjut Duncan Faktor A

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SSR | LSR | Rata-rata Perlakuan | Perlakuan | Taraf 5% |
| Kode | Rata-rata | 1 | 2  |   |
| - | - | a2 | 1047433 | - |  - |  a |
| 3.00 | 233167 | a1 | 2069307 | 1021873 \* | - | b |

Kesimpulan : Berdasarkan uji lanjut Duncan, diketahui bahwa masing-masing perlakuan jumlah pelapisan berbeda nyata pada taraf 5%.

Sy $=\frac{\sqrt{KTG}}{b×r}$ = $\frac{781,534}{3×4}$ = 8,07

Tabel 51. Uji Lanjut Duncan Faktor B

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SSR | LSR | Rata-rata Perlakuan | Perlakuan |   |   | **Taraf Nyata** |
| Kode | Rata-rata | 1 |  2 | 3 | 5% |
| - | - | b2 | 279520 | - |  - |  - | a |
| 3.00 | 233167 | b1 | 444590 | 165070 tn | - | - | a |
| 3.15 | 244825 | b3 | 3951000 | 3671480 \* | 3506410 \* | - | b |

Kesimpulan : Kesimpulan : Berdasarkan uji lanjut Duncan, diketahui bahwa suhu penyimpanan 5°C (b1) tidak berbeda nyata dengan penyimpanan suhu 10°C tetapi berbeda nyata dengan penyimpanan di suhu ruang (b3), sedangkan penyimpanan suhu ruang (b3) berbeda nyata pada penyimpanan 5°C (b1) dan 10°C (b2).

**Lampiran 11. Hasil Penelitian Utama Analisis Fisik (Susut Bobot)**

**Analisis Susut Bobot Hari ke-6**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Ulangan** | **Sampel** | **WA(gram)** | **WB (gram)** | **Susut bobot (%)** |
| **1** | a1b1 | 7,04 | 5,23 | 25,71 |
| a1b2 | 10,87 | 9,33 | 14,16 |
| a1b3 | 12,47 | 6,49 | 47,95 |
| a2b1 | 9,14 | 7,51 | 17,83 |
| a2b2 | 12,33 | 10,91 | 11,51 |
| a2b3 | 10,63 | 5,77 | 45,71 |
| **2** | a1b1 | 8,55 | 6,22 | 27,25 |
| a1b2 | 10,03 | 8,21 | 18,14 |
| a1b3 | 12,31 | 5,81 | 52,80 |
| a2b1 | 9,22 | 6,86 | 25,59 |
| a2b2 | 12,40 | 10,73 | 13,46 |
| a2b3 | 10,44 | 5,34 | 48,85 |
| **3** | a1b1 | 8,02 | 5,74 | 28,42 |
| a1b2 | 10,39 | 8,57 | 17,51 |
| a1b3 | 12,11 | 5,61 | 53,67 |
| a2b1 | 9,09 | 6,73 | 25,96 |
| a2b2 | 12,04 | 10,37 | 13,87 |
| a2b3 | 10,25 | 5,15 | 49,75 |
| **4** | a1b1 | 7,05 | 4,72 | 33,04 |
| a1b2 | 10,55 | 8,73 | 17,25 |
| a1b3 | 12,15 | 5,65 | 53,49 |
| a2b1 | 9,12 | 6,76 | 25,87 |
| a2b2 | 12,27 | 10,60 | 13,61 |
| a2b3 | 10,74 | 5,64 | 47,48 |

Tabel 52. Data Hasil Pengamatan Susut Bobot Buah Potong Pepaya Hari Ke-6

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Jumlah Pelapisan (A)** | **Suhu Penyimpanan (B)** | **Ulangan** | **Total** | **Rata-rata** |
| **1** | **2** | **3** | **4** |
| **a1** | b1 | 25,71 | 27,25 | 28,42 | 33,04 | **114,42** | **28,605** |
| b2 | 14,16 | 18,14 | 17,51 | 17,25 | **67,06** | **16,765** |
| b3 | 47,95 | 52,80 | 53,67 | 53,49 | **207,91** | **51,978** |
| **a2** | b1 | 17,83 | 25,59 | 25,96 | 25,87 | **95,25** | **23,813** |
| b2 | 11,51 | 13,46 | 13,87 | 13,61 | **52,45** | **13,113** |
| b3 | 45,71 | 48,85 | 49,75 | 47,48 | **191,79** | **47,948** |
| **Total**  |  | **162,87** | **186,09** | **189,18** | **190,74** | **728,88** |   |

|  |  |  |  |
| --- | --- | --- | --- |
| **Faktor** | **B** | **Total** | **Rata-rata** |
| **A** | **b1** | **b2** | **b3** |
| **a1** | 114,42 | 67,06 | 207,91 | 389,39 | 129,80 |
| **a2** | 95,25 | 52,45 | 191,79 | 339,49 | 113,16 |
| **Total** | 209,67 | 119,51 | 399,70 | 728,88 |   |
| **Rata-Rata** | 104,84 | 59,76 | 199,85 |   |   |

Dengan perhitungan yang sama, diperoleh anava :

Tabel 53. Analisis Variansi(ANAVA)Susut Bobot Buah Potong Pepaya hari ke-6

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sumber Keragaman** | **db** | **JK** | **KT** | **F hitung** | **F Tabel 5%** |
|
| **Kelompok** | 3 | 85,072 |   |   |   |
| **Perlakuan** | 5 | 5219,544 |   |   |   |
| **Faktor A** | 1 | 103,750 | 103,750 | 42,108 \* | 4,54 |
| **Faktor B** | 2 | 5114,444 | 2557,222 | 1037,879 \* | 3,68 |
| **Interaksi A x B** | 2 | 1,349 | 0,675 | 0,274 tn | 3,68 |
| **Galat** | 15 | 36,958 | 2,464 |   |   |
| **Total** | 23 | 5341,574 |   |   |   |

Keterangan : (\*) berbeda nyata

 (tn) tidak berbeda nyata

Kesimpulan : Berdasarkan tabel ANAVA diketahui bahwa F hitung > F tabel 5% terhadap faktor A dan faktor B.. Hal ini berarti jumlah pelapisan dan suhu penyimpanan berbeda nyata terhadap susut bobot buah potong pepaya sehingga perlu dilakukan uji lanjut Duncan.

Sy $=\frac{\sqrt{KTG}}{b×r}$ = $\frac{2,464}{3×4}$ = 0,45

Tabel 54. Uji Lanjut Duncan Faktor A

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SSR | LSR | Rata-rata Perlakuan | Perlakuan | Taraf 5% |
| 5% | 5% | kode  | rata-rata | 1 |  2 |   |
|  -  |  -  | a2 | 113.16 |  - | -  | a |
| 3.01  |  1.36  | a1 | 129.80 | 16.63 \* | - | b |

Kesimpulan : Kesimpulan : Berdasarkan uji lanjut Duncan, diketahui bahwa masing-masing perlakuan jumlah pelapisan berbeda nyata pada taraf 5%.

Sy $=\frac{\sqrt{KTG}}{a×r}$ = $\frac{2,464}{2×4}$ = 0,55

Tabel 55. Uji Lanjut Duncan Faktor B

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SSR | LSR | Rata-rata Perlakuan | Perlakuan | Taraf 5% |
| 5% | 5% | kode  | rata-rata | 1 |  2 | 3 |
|  -  |  -  | b2 | 59.76 |  - |  - |  - | a |
| 3.01  |  1.67  | b1 | 104.84 | 45.08 \* | - |  - | b |
| 3.16 | 1.75 | b3 | 199.85 | 140.10 \* | 95.0 \* | - | c |

Kesimpulan : Berdasarkan uji lanjut Duncan, diketahui bahwa masing-masing perlakuan suhu penyimpanan berbeda nyata pada taraf 5%.

**Lampiran 12. Foto-foto Penelitian**

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Buah PepayaPemotongan BuahPerendaman Larutan

 CaCl2

****

Perendaman *Edible Coating*

Penyimpanan suhu dingin



 Penyimpanan suhu ruang Penyimpanan hari ke-6