**Lampiran 13. Data Hasil Uji Hedonik Terhadap Warna *Juice* Kailan Organik**

. Data Hasil Uji Hedonik Terhadap Warna *Juice* Kailan Organik (Ulangan 1)

|  |  |
| --- | --- |
| **Panelis** | **Perlakuan** |
| **M1L1** | **M1L2** | **M1L3** | **M2L1** | **M2L2** | **M2L3** | **M3L1** | **M3L2** | **M3L3** |
| 1 | 6 | 4 | 5 | 5 | 4 | 4 | 5 | 4 | 1 |
| 2 | 2 | 4 | 3 | 2 | 4 | 4 | 4 | 4 | 2 |
| 3 | 4 | 5 | 5 | 3 | 3 | 3 | 4 | 4 | 1 |
| 4 | 2 | 5 | 4 | 2 | 5 | 3 | 3 | 4 | 3 |
| 5 | 3 | 3 | 4 | 3 | 4 | 3 | 3 | 1 | 2 |
| 6 | 2 | 4 | 3 | 2 | 5 | 2 | 4 | 3 | 2 |
| 7 | 3 | 5 | 5 | 3 | 5 | 5 | 5 | 4 | 4 |
| 8 | 3 | 5 | 5 | 3 | 3 | 4 | 3 | 4 | 3 |
| 9 | 4 | 5 | 4 | 1 | 2 | 4 | 5 | 4 | 4 |
| 10 | 4 | 4 | 3 | 3 | 4 | 3 | 5 | 5 | 2 |
| 11 | 3 | 4 | 4 | 2 | 6 | 5 | 5 | 5 | 1 |
| 12 | 5 | 2 | 2 | 5 | 2 | 2 | 2 | 2 | 2 |
| 13 | 2 | 4 | 5 | 2 | 4 | 3 | 3 | 4 | 1 |
| 14 | 3 | 4 | 5 | 4 | 4 | 4 | 5 | 5 | 4 |
| 15 | 5 | 1 | 5 | 5 | 5 | 5 | 5 | 3 | 1 |
| **Jumlah** | 51 | 59 | 62 | 45 | 60 | 54 | 61 | 56 | 33 |
| **Rata-rata** | 3.400 | 3.933 | 4.133 | 3.000 | 4.000 | 3.600 | 4.067 | 3.733 | 2.200 |

Data Hasil Uji Hedonik Terhadap Warna *Juice* Kailan Organik (Ulangan 2)

|  |  |
| --- | --- |
| **Panelis** | **Perlakuan** |
| **M1L1** | **M1L2** | **M1L3** | **M2L1** | **M2L2** | **M2L3** | **M3L1** | **M3L2** | **M3L3** |
| 1 | 5 | 5 | 4 | 4 | 2 | 3 | 4 | 3 | 3 |
| 2 | 5 | 5 | 4 | 5 | 5 | 4 | 5 | 3 | 3 |
| 3 | 1 | 2 | 4 | 3 | 3 | 3 | 2 | 3 | 4 |
| 4 | 4 | 2 | 3 | 5 | 6 | 6 | 3 | 2 | 1 |
| 5 | 5 | 3 | 5 | 5 | 5 | 5 | 5 | 2 | 2 |
| 6 | 3 | 5 | 3 | 4 | 5 | 5 | 5 | 3 | 5 |
| 7 | 1 | 1 | 3 | 3 | 5 | 5 | 2 | 2 | 4 |
| 8 | 3 | 2 | 3 | 4 | 2 | 2 | 2 | 4 | 2 |
| 9 | 3 | 3 | 4 | 4 | 5 | 4 | 5 | 3 | 5 |
| 10 | 2 | 3 | 3 | 4 | 3 | 2 | 4 | 5 | 2 |
| 11 | 3 | 3 | 4 | 5 | 4 | 4 | 5 | 6 | 6 |
| 12 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 4 |
| 13 | 1 | 2 | 4 | 5 | 1 | 3 | 4 | 3 | 4 |
| 14 | 5 | 4 | 3 | 5 | 4 | 4 | 3 | 4 | 4 |
| 15 | 2 | 3 | 4 | 2 | 1 | 2 | 2 | 3 | 4 |
| **Jumlah** | 47 | 47 | 55 | 62 | 55 | 56 | 55 | 51 | 53 |
| **Rata-rata** | 3.13 | 3.13 | 3.67 | 4.13 | 3.67 | 3.73 | 3.67 | 3.40 | 3.53 |

Data Hasil Uji Hedonik Terhadap Warna *Juice* Kailan Organik (Ulangan 3)

|  |  |
| --- | --- |
| **Panelis** | **Perlakuan** |
| **M1L1** | **M1L2** | **M1L3** | **M2L1** | **M2L2** | **M2L3** | **M3L1** | **M3L2** | **M3L3** |
| 1 | 3 | 4 | 5 | 3 | 5 | 4 | 4 | 3 | 5 |
| 2 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 2 | 2 |
| 3 | 4 | 4 | 2 | 3 | 5 | 4 | 5 | 3 | 5 |
| 4 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 |
| 5 | 3 | 2 | 4 | 5 | 4 | 4 | 5 | 4 | 4 |
| 6 | 3 | 4 | 4 | 4 | 3 | 4 | 4 | 3 | 4 |
| 7 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 8 | 3 | 4 | 4 | 3 | 3 | 4 | 3 | 3 | 4 |
| 9 | 2 | 3 | 2 | 2 | 4 | 4 | 3 | 3 | 4 |
| 10 | 2 | 3 | 2 | 4 | 2 | 4 | 3 | 5 | 4 |
| 11 | 2 | 2 | 4 | 1 | 4 | 4 | 4 | 4 | 5 |
| 12 | 5 | 4 | 5 | 3 | 5 | 4 | 4 | 4 | 5 |
| 13 | 3 | 5 | 4 | 5 | 4 | 5 | 4 | 5 | 5 |
| 14 | 2 | 5 | 3 | 3 | 4 | 5 | 4 | 4 | 3 |
| 15 | 2 | 1 | 2 | 2 | 4 | 2 | 6 | 3 | 2 |
| **Jumlah** | 42 | 49 | 49 | 48 | 55 | 58 | 59 | 53 | 59 |
| **Rata-rata** | 2.8 | 3.27 | 3.27 | 3.20 | 3.67 | 3.87 | 3.93 | 3.53 | 3.93 |

Data Hasil Uji Hedonik Terhadap Warna *Juice* Kailan Organik

|  |  |  |  |
| --- | --- | --- | --- |
| **Faktor M** | **Faktor L** | **Ulangan** | **Rata-rata** |
| **1** | **2** | **3** |
| **m1** | **l1** | 3.4 | 3.13 | 2.8 | 3.110 |
| **l2** | 3.93 | 3.13 | 3.27 | 3.443 |
| **l3** | 4.13 | 3.67 | 3.27 | 3.690 |
| **m2** | **l1** | 3 | 4.13 | 3.2 | 3.443 |
| **l2** | 4 | 3.67 | 3.67 | 3.780 |
| **l3** | 3.6 | 3.73 | 3.87 | 3.733 |
| **m3** | **l1** | 4.07 | 3.67 | 3.93 | 3.890 |
| **l2** | 3.73 | 3.4 | 3.53 | 3.553 |
| **l3** | 2.2 | 3.53 | 3.93 | 3.220 |

Data Hasil Uji Hedonik Terhadap Warna *Juice* Kailan Organik dengan Transformasi √Y + 0.5

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Faktor M** | **Faktor L** | **Ulangan** | **Jumlah** | **Rata-rata** |
| **1** | **2** | **3** |
| **m1** | **l1** | 1.975 | 1.905 | 1.817 | 5.697 | 1.899 |
| **l2** | 2.105 | 1.905 | 1.942 | 5.952 | 1.984 |
| **l3** | 2.152 | 2.042 | 1.942 | 6.135 | 2.045 |
| **Jumlah** | 6.231 | 5.853 | 5.700 | 17.784 | 5.928 |
| **Rata-rata** | 2.077 | 1.951 | 1.900 | 5.928 | 1.976 |
| **m2** | **l1** | 1.871 | 2.152 | 1.924 | 5.946 | 1.982 |
| **l2** | 2.121 | 2.042 | 2.042 | 6.205 | 2.068 |
| **l3** | 2.025 | 2.057 | 2.090 | 6.172 | 2.057 |
| **Jumlah** | 6.017 | 6.250 | 6.056 | 18.324 | 6.108 |
| **Rata-rata** | 2.006 | 2.083 | 2.019 | 6.108 | 2.036 |
| **m3** | **l1** | 2.138 | 2.042 | 2.105 | 6.285 | 2.095 |
| **l2** | 2.057 | 1.975 | 2.007 | 6.039 | 2.013 |
| **l3** | 1.643 | 2.007 | 2.105 | 5.755 | 1.918 |
| **Jumlah** | 5.838 | 6.024 | 6.217 | 18.079 | 6.026 |
| **Rata-rata** | 1.946 | 2.008 | 2.072 | 6.026 | 2.009 |
| **∑ Jumlah** | 18.086 | 18.127 | 17.973 | **54.186** | 18.062 |
| **∑ Rata-rata** | 6.029 | 6.042 | 5.991 | 18.062 | 6.021 |

Perhitungan ANAVA :

FK = $\frac{(Total faktor M)^{2}}{m x l x r}$ = $\frac{(54,186)^{2}}{3 x 3 x 3}$ = 108.747

JKT = [(m1l1)2 + …+ (m3l3)2] – FK

 = [(1.975)2 + … + (2.105)2] – 108.747 = 0.343327

JKK = ( ∑ K1)2 + ( ∑ K2)2 + ( ∑ K3)2  - FK

 m x l

 = ( 18.086)2 + (18.127)2 + (17.973)2 – 108.747 = 0.001421

 3 x 3

JKM = ( ∑ m1)2 + ( ∑ m2)2 + ( ∑ m3)2  - FK

 l x r

 = (17.784)2 + (18.324)2 + (18.079)2 – 108.747 = 0.016232

 3 x 3

JKL = ( ∑ l1)2 + ( ∑ l2)2 + ( ∑ l3)2  - FK

 m x r

 = (17.928)2 + (18.196)2 + (18.062)2 – 108.747 = 0.004013 3 x 3

JKML = ( ∑ m1l1)2 + … + ( ∑ m3l3)2  - FK – JKA – JKB

 r

 = ( 5.697)2 + … + ( 5.755)2  - 108.747– 0,023 – 0,03 = 0.088369

 3

JKG = JKT – JKK – JKA – JKB – JKAB

 = 0,48 - 0,024 - 0,046 - 0,057 – 0,03 = 0,1

Tabel Anava Uji Hedonik Terhadap Warna *Juice* Kailan Organik

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sumber Variansi** | **dB** | **JK** | **RJK** | **F Hitung** | **F tabel 5%** |
|
| **Kelompok** | 2 | 0.001421 | 0.000711 | - | - |
| **Faktor M** | 2 | 0.016232 | 0.008116 | 0.556629 | tn | 3.63 |
| **Faktor L** | 2 | 0.004013 | 0.002006 | 0.137604 | tn | 3.63 |
| **Interaksi ML** | 4 | 0.088369 | 0.022092 | 1.515159 | tn | 3.01 |
| **Galat** | 16 | 0.233293 | 0.014581 |   |   |   |
| **Total** | 26 | 0.343327 |   |  |  |  |

Keterangan :

Faktor M : Konsentrasi madu

Faktor L : Perbandingan air dengan bahan baku ( Kailan)

tn : tidak berbeda nyata