**Lampiran 8. Data Hasil Analisis Kimia Terhadap Gula Total *Juice* Kailan Organik**

Data Hasil Analisis Kimia Terhadap Gula Total *Juice* Kailan Organik

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Faktor M** | **Faktor L** | **Data Asli** | | | **Jumlah** | **Rata-rata** |
| **R-1** | **R-2** | **R-3** |
| **m1** | **l1** | 16.150 | 21.340 | 20.220 | 57.710 | 19.237 |
| **l2** | 18.030 | 20.790 | 19.310 | 58.130 | 19.377 |
| **l3** | 20.200 | 25.880 | 20.080 | 66.160 | 22.053 |
| **Jumlah** | | 54.380 | 68.010 | 59.610 | 182.000 | 60.667 |
| **Rata-rata** | | 18.127 | 22.670 | 19.870 | 60.667 | 20.222 |
| **m2** | **l1** | 17.950 | 22.110 | 25.080 | 65.140 | 21.713 |
| **l2** | 18.740 | 22.340 | 21.250 | 62.330 | 20.777 |
| **l3** | 14.720 | 20.040 | 20.270 | 55.030 | 18.343 |
| **Jumlah** | | 51.410 | 64.490 | 66.600 | 182.500 | 60.833 |
| **Rata-rata** | | 17.137 | 21.497 | 22.200 | 60.833 | 20.278 |
| **m3** | **l1** | 20.190 | 18.280 | 29.080 | 67.550 | 22.517 |
| **l2** | 22.460 | 25.100 | 23.240 | 70.800 | 23.600 |
| **l3** | 19.180 | 24.650 | 24.610 | 68.440 | 22.813 |
| **Jumlah** | | 61.830 | 68.030 | 76.930 | 206.790 | 68.930 |
| **Rata-rata** | | 20.610 | 22.677 | 25.643 | 68.930 | 22.977 |
| **∑ Jumlah** | | 167.620 | 200.530 | 203.140 | **571.290** | 190.430 |
| **∑ Rata-rata** | | 55.873 | 66.843 | 67.713 | 190.430 | 63.477 |

Perhitungan ANAVA :

FK = = = 12117.9

JKT = [(m1l1)2 + …+ (m3l3)2] – FK

= [(16,150)2 + … + (24,610)2] – 12117.9 = 260.4535

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

m x l

= ( 167,620)2 + (200.530)2 + (203,850)2 – 12117.9 = 89.13716 3 x 3

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

l x r

= (182,71)2 + (182,5)2 + (206,79)2 – 12117.9 = 43.32943 3 x 3

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

m x r

= (190.4)2 + (191.97)2 + (189.63)2 – 12117.9 = 0.316052 3 x 3

JKML = ( ∑ m1l1)2 + … + ( ∑ m3l3)2  - FK – JKM – JKL

r

= ( 57,71)2 + … + ( 68,44)2  - 12117.9– 43.32943 – 0.316052 = 33.74886 3

JKG = JKT – JKK – JKM – JKL – JKML

= 260.4535 – 89.13716 – 43.32943 – 0.316052– 33.74886= 93.92197

Tabel Anava Hasil Analisis Kimia Terhadap Gula Total*Juice* Kailan Organik

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Sumber Variansi** | **dB** | **JK** | **RJK** | **F Hitung** | | **F tabel 5%** |
|
| **Kelompok** | 2 | 89.13716 | 44.56858 | - | | - |
| **Faktor M** | 2 | 43.32943 | 21.66471 | 3.690675 | \* | 3.63 |
| **Faktor L** | 2 | 0.316052 | 0.158026 | 0.02692 | tn | 3.63 |
| **Interaksi ML** | 4 | 33.74886 | 8.437215 | 1.437315 | tn | 3.01 |
| **Galat** | 16 | 93.92197 | 5.870123 |  |  |  |
| **Total** | 26 | 260.4535 |  |  |  |  |

Standar Error (Sy) M = = 0.80761

LSR = SSR x Sy

= 3.00 x 0.80761 = 2.423

= 3.15 x 0.80761 = 2.544

Tabel Uji Lanjut DUNCUN untuk Faktor M

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| SSR 5% | LSR 5% | Kode | Rata-rata | Perlakuan | | | Taraf Nyata |
| 1 | 2 | 3 |
| - | - | m2 | 20.278 | - |  |  | **a** |
| 3.00 | 2.423 | m1 | 20.301 | 0.023tn |  |  | **a** |
| 3.15 | 2.544 | m3 | 22.977 | 2.699\* | 2.676\* | - | **b** |

Keterangan :

Faktor M : Konsentrasi madu

Faktor L : Perbandingan air dengan bahan baku ( Kailan)

tn : tidak berbeda nyata

\* : Berbeda nyata