**Lampiran VI. Hasil Analisis Organoleptik Penelitian Utama *Mix Juice***

Tabel Data Asli Hasil Uji Organoleptik Terhadap Rasa *Mix Juice*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Jumlah Sukrosa** | **Kelompok Ulangan** | **Lama Penyimpanan (minggu)** | **Total** | **Rata-rata** |
| **p1** | **p2** | **p3** | **p4** |
| s1 (10%) | 1 | 4.27 | 4.07 | 3.47 | 3.00 | 14.80 | 3.70 |
| 2 | 4.60 | 3.87 | 3.67 | 3.00 | 15.13 | 3.78 |
| **Sub Total** | **8.87** | **7.93** | **7.13** | **6.00** | 29.93 | 7.48 |
| **Rata-rata** | **4.43** | **3.97** | **3.57** | **3.00** | 14.97 | 3.74 |
| s2 (15%) | 1 | 3.73 | 3.47 | 3.33 | 3.80 | 14.33 | 3.58 |
| 2 | 4.07 | 3.47 | 3.27 | 3.93 | 14.73 | 3.68 |
| **Sub Total** | **7.80** | **6.93** | **6.60** | **7.73** | 29.07 | 7.27 |
| **Rata-rata** | **3.90** | **3.47** | **3.30** | **3.87** | 14.53 | 3.63 |
| s3 (20%) | 1 | 3.60 | 3.00 | 3.07 | 2.80 | 12.47 | 3.12 |
| 2 | 3.73 | 3.13 | 3.20 | 3.33 | 13.40 | 3.35 |
| **Sub Total** | **7.33** | **6.13** | **6.27** | **6.13** | 25.87 | 6.47 |
| **Rata-rata** | **3.67** | **3.07** | **3.13** | **3.07** | 12.93 | 3.23 |
| **Sub Total** | **24.00** | **21.00** | **20.00** | **19.87** | **84.87** | **21.22** |
| **Rata-rata** | **4.00** | **3.50** | **3.33** | **3.31** | **14.14** | **3.54** |

Tabel Nilai Rata-Rata Data Asli Hasil Uji Organoleptik Terhadap Rasa *Mix Juice*

|  |  |
| --- | --- |
| **Kelompok Ulangan**  | **Perlakuan** |
| **s1p1** | **s1p2** | **s1p3** | **s1p4** | **s2p1** | **s2p2** | **s2p3** | **s2p4** | **s3p1** | **s3p2** | **s3p3** | **s3p4** | **Total** |
| **I** | 4.27 | 4.07 | 3.47 | 3.00 | 3.73 | 3.47 | 3.33 | 3.80 | 3.60 | 3.00 | 3.07 | 2.80 | 41.60 |
| **II** | 4.60 | 3.87 | 3.67 | 3.00 | 4.07 | 3.47 | 3.27 | 3.93 | 3.73 | 3.13 | 3.20 | 3.33 | 43.27 |
| **Jumlah** | **8.87** | **7.93** | **7.13** | **6.00** | **7.80** | **6.93** | **6.60** | **7.73** | **7.33** | **6.13** | **6.27** | **6.13** | 84.87 |
| **Rata-rata** | **4.43** | **3.97** | **3.57** | **3.00** | **3.90** | **3.47** | **3.30** | **3.87** | **3.67** | **3.07** | **3.13** | **3.07** | 42.43 |

Tabel Data Transformasi Hasil Uji Organoleptik Terhadap Rasa *Mix Juice*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Jumlah Sukrosa** | **Kelompok Ulangan** | **Lama Penyimpanan (minggu)** | **Total** | **Rata-rata** |
| **p1** | **p2** | **p3** | **p4** |
| s1 (10%) | 1 | 2.18 | 2.13 | 1.99 | 1.86 | 8.16 | 2.04 |
| 2 | 2.26 | 2.09 | 2.04 | 1.86 | 8.24 | 2.06 |
| **Sub Total** | **4.44** | **4.22** | **4.03** | **3.72** | 16.41 | 4.10 |
| **Rata-rata** | **2.22** | **2.11** | **2.01** | **1.86** | 8.20 | 2.05 |
| s2 (15%) | 1 | 2.05 | 1.98 | 1.95 | 2.07 | 8.05 | 2.01 |
| 2 | 2.13 | 1.99 | 1.93 | 2.10 | 8.15 | 2.04 |
| **Sub Total** | **4.18** | **3.97** | **3.88** | **4.17** | 16.20 | 4.05 |
| **Rata-rata** | **2.09** | **1.98** | **1.94** | **2.09** | 8.10 | 2.03 |
| s3 (20%) | 1 | 2.02 | 1.87 | 1.87 | 1.80 | 7.56 | 1.89 |
| 2 | 2.10 | 1.90 | 1.91 | 1.91 | 7.81 | 1.95 |
| **Sub Total** | **4.12** | **3.76** | **3.78** | **3.71** | 15.37 | 3.84 |
| **Rata-rata** | **2.06** | **1.88** | **1.89** | **1.85** | 7.68 | 1.92 |
| **Sub Total** | **12.74** | **11.95** | **11.68** | **11.60** | **47.98** | **11.99** |
| **Rata-rata** | **6.37** | **5.98** | **5.84** | **5.80** | **23.99** | **6.00** |

Tabel Nilai Rata-Rata Data Transformasi Hasil Uji Organoleptik Terhadap Rasa *Mix Juice*

|  |  |
| --- | --- |
| **Kelompok Ulangan**  | **Perlakuan** |
| **s1p1** | **s1p2** | **s1p3** | **s1p4** | **s2p1** | **s2p2** | **s2p3** | **s2p4** | **s3p1** | **s3p2** | **s3p3** | **s3p4** | **Total** |
| **I** | 2.18 | 2.13 | 1.99 | 1.86 | 2.05 | 1.98 | 1.95 | 2.07 | 2.02 | 1.87 | 1.87 | 1.80 | 23.78 |
| **II** | 2.26 | 2.09 | 2.04 | 1.86 | 2.13 | 1.99 | 1.93 | 2.10 | 2.05 | 1.90 | 1.91 | 1.94 | 24.19 |
| **Jumlah** | **4.44** | **4.22** | **4.03** | **3.72** | **4.18** | **3.97** | **3.88** | **4.17** | **4.07** | **3.76** | **3.78** | **3.75** | 47.96 |
| **Rata-rata** | **2.22** | **2.11** | **2.01** | **1.86** | **2.09** | **1.98** | **1.94** | **2.09** | **2.04** | **1.88** | **1.89** | **1.87** | 23.98 |

**Perhitungan :**

 = (2,182 + 2,262 + ... + 1,942) – = 0,306

Tabel. Analisis Variansi (ANAVA) Terhadap Rasa *Mix Juice*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sumber Variansi** | **dB** | **JK** | **KT** | **F Hitung** | **F Tabel 5%** |
| Kelompok | 1 | 0.007 | 0.007 |   |   |
| Perlakuan | 11 | 0.286 | 0.026 |   |   |
| Taraf s | 2 | 0.118 | 0.059 | 46.319 \* | 3.98 |
| Taraf p | 3 | 0.178 | 0.059 | 46.519 \* | 3.59 |
| Interaksi sp | 6 | 0.048 | 0.008 | 6.248 \* | 3.09 |
| Galat  | 11 | 0.014 | 0.001 |  |  |
| Total | 23 | 0.307 |  |  |  |

Keterangan : tn = Tidak Berbeda Nyata

 \* = Berbeda Nyata

Kesimpulan :

Berdasarkan tabel anava diketahui bahwa F hitung ≥ F tabel pada taraf 5% maka dapat disimpulkan jumlah sukrosa (S), lama penyimpanan (P) dan interaksi keduanya (SP) berpengaruh terhadap rasa *Mix Juice*, sehingga diberi tanda \* (berbeda nyata) maka perlu dilakukan uji lanjut duncan.

Sў = = = 0,01029

LSR = Sў x SSR

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Tabel . Uji jarak berganda Duncan untuk jumlah sukrosa (S1) terhadap P |   |   |   |  |  |
| **SSR 5%** | **LSR 5%** | **Kode** | **Rata-rata** | **Perlakuan** | **Taraf Nyata 5%** |
| **1** | **2** | **3** | **4** |
|   |   | s1p4 | 1.86 |   |   |   |   |   |   |   |   | a |
| 3.11 | 0.032 | s1p3 | 2.01 | 0.151 | \* |   |   |   |   |   |   | b |
| 3.27 | 0.034 | s1p2 | 2.11 | 0.249 | \* | 0.098 | \* |   |   |   |   | c |
| 3.35 | 0.035 | s1p1 | 2.22 | 0.357 | \* | 0.206 | \* | 0.108 | \* |   |   | d |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tabel uji jarak berganda Duncan untuk jumlah sukrosa (S2) terhadap P |   |   |   |  |  |
| **SSR 5%** | **LSR 5%** | **Kode** | **Rata-rata** | **Perlakuan** | **Taraf Nyata 5%** |
| **1** | **2** | **3** | **4** |
|   |   | s2p3 | 1.94 |   |   |   |   |   |   |   |   | a |
| 3.11 | 0.032 | s2p2 | 1.98 | 0.043 | \* |   |   |   |   |   |   | b |
| 3.27 | 0.034 | s2p4 | 2.09 | 0.145 | \* | 0.101 | \* |   |   |   |   | c |
| 3.35 | 0.035 | s2p1 | 2.09 | 0.151 | \* | 0.108 | \* | 0.007 | tn |   |   | c |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| Tabel uji jarak berganda Duncan untuk jumlah sukrosa (S3) terhadap P |   |   |   |  |  |
| **SSR 5%** | **LSR 5%** | **Kode** | **Rata-rata** | **Perlakuan** | **Taraf Nyata 5%** |
| **1** | **2** | **3** | **4** |
|   |   | s3p4 | 1.85 |   |   |   |   |   |   |   |   | a |
| 3.11 | 0.032 | s3p2 | 1.88 | 0.028 | tn |   |   |   |   |   |   | ab |
| 3.27 | 0.034 | s3p3 | 1.89 | 0.035 | \* | 0.007 | tn |   |   |   |   | b |
| 3.35 | 0.035 | s3p1 | 2.06 | 0.208 | \* | 0.180 | \* | 0.173 | \* |   |   | c |

|  |  |  |  |
| --- | --- | --- | --- |
| Tabel uji jarak berganda Duncan untuk lama penyimpanan (P1) terhadap S |   |   |   |
| **SSR 5%** | **LSR 5%** | **Kode** | **Rata-rata** | **Perlakuan** | **Taraf Nyata 5%** |
| **1** | **2** | **3** |
|   |   | p1s3 | 2.06 |   |   |   |   |   |   | A |
| 3.11 | 0.032 | p1s2 | 2.09 | 0.031 | tn |   |   |   |   | A |
| 3.27 | 0.034 | p1s1 | 2.22 | 0.157 | \* | 0.127 | \* |   |   | B |
|  |  |  |  |  |  |  |  |  |  |  |
| Tabel uji jarak berganda Duncan untuk lama penyimpanan (P2) terhadap S |   |   |   |
| **SSR 5%** | **LSR 5%** | **Kode** | **Rata-rata** | **Perlakuan** | **Taraf Nyata 5%** |
| **1** | **2** | **3** |
|   |   | p1s3 | 1.88 |   |   |   |   |   |   | A |
| 3.11 | 0.032 | p1s2 | 1.98 | 0.103 | \* |   |   |   |   | B |
| 3.27 | 0.034 | p1s1 | 2.11 | 0.229 | \* | 0.127 | \* |   |   | C |
|  |  |  |  |  |  |  |  |  |  |  |
| Tabel uji jarak berganda Duncan untuk lama penyimpanan (P3) terhadap S |   |   |   |
| **SSR 5%** | **LSR 5%** | **Kode** | **Rata-rata** | **Perlakuan** | **Taraf Nyata 5%** |
| **1** | **2** | **3** |
|   |   | p1s3 | 1.88 |   |   |   |   |   |   | A |
| 3.11 | 0.032 | p1s2 | 1.98 | 0.103 | \* |   |   |   |   | B |
| 3.27 | 0.034 | p1s1 | 2.11 | 0.229 | \* | 0.127 | \* |   |   | C |
|  |  |  |  |  |  |  |  |  |  |  |
| Tabel uji jarak berganda Duncan untuk lama penyimpanan (P4) terhadap S |   |   |   |
| **SSR 5%** | **LSR 5%** | **Kode** | **Rata-rata** | **Perlakuan** | **Taraf Nyata 5%** |
| **1** | **2** | **3** |
|   |   | p1s3 | 1.85 |   |   |   |   |   |   | A |
| 3.11 | 0.105 | p1s1 | 1.86 | 0.009 | tn |   |   |   |   | A |
| 3.27 | 0.110 | p1s2 | 2.09 | 0.232 | \* | 0.224 | \* |   |   | B |

Tabel . Uji Lanjut *Duncan* untuk Interaksi antara Faktor S dan Faktor P



Tabel Data Asli Hasil Uji Organoleptik Terhadap Warna *Mix Juice*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Jumlah Sukrosa** | **Kelompok Ulangan** | **Lama Penyimpanan (minggu)** | **Total** | **Rata-rata** |
| **p1** | **p2** | **p3** | **p4** |
| s1 (10%) | 1 | 4.40 | 4.40 | 3.53 | 2.67 | 15.00 | 3.75 |
| 2 | 4.60 | 4.27 | 4.07 | 3.07 | 16.00 | 4.00 |
| **Sub Total** | **9.00** | **8.67** | **7.60** | **5.73** | 31.00 | 7.75 |
| **Rata-rata** | **4.50** | **4.33** | **3.80** | **2.87** | 15.50 | 3.88 |
| s2 (15%) | 1 | 4.27 | 3.73 | 3.00 | 2.53 | 13.53 | 3.38 |
| 2 | 3.87 | 3.47 | 3.27 | 3.93 | 14.53 | 3.63 |
| **Sub Total** | **8.13** | **7.20** | **6.27** | **6.47** | 28.07 | 7.02 |
| **Rata-rata** | **4.07** | **3.60** | **3.13** | **3.23** | 14.03 | 3.51 |
| s3 (20%) | 1 | 4.07 | 3.60 | 2.87 | 1.93 | 12.47 | 3.12 |
| 2 | 3.73 | 3.13 | 3.20 | 3.33 | 13.40 | 3.35 |
| **Sub Total** | **7.80** | **6.73** | **6.07** | **5.27** | 25.87 | 6.47 |
| **Rata-rata** | **3.90** | **3.37** | **3.03** | **2.63** | 12.93 | 3.23 |
| **Sub Total** | **24.93** | **22.60** | **19.93** | **17.47** | **84.93** | **21.23** |
| **Rata-rata** | **4.16** | **3.77** | **3.32** | **2.91** | **14.16** | **3.54** |

Tabel Nilai Rata-Rata Data Asli Hasil Uji Organoleptik Terhadap Warna *Mix Juice*

|  |  |
| --- | --- |
| **Kelompok Ulangan**  | **Perlakuan** |
| **s1p1** | **s1p2** | **s1p3** | **s1p4** | **s2p1** | **s2p2** | **s2p3** | **s2p4** | **s3p1** | **s3p2** | **s3p3** | **s3p4** | **Total** |
| **I** | 4.40 | 4.40 | 3.53 | 2.67 | 4.27 | 3.73 | 3.00 | 2.53 | 4.07 | 3.60 | 2.87 | 1.93 | 41.00 |
| **II** | 4.60 | 4.27 | 4.07 | 3.07 | 3.87 | 3.47 | 3.27 | 3.93 | 3.73 | 3.13 | 3.20 | 3.33 | 43.93 |
| **Jumlah** | **9.00** | **8.67** | **7.60** | **5.73** | **8.13** | **7.20** | **6.27** | **6.47** | **7.80** | **6.73** | **6.07** | **5.27** | 84.93 |
| **Rata-rata** | **4.50** | **4.33** | **3.80** | **2.87** | **4.07** | **3.60** | **3.13** | **3.23** | **3.90** | **3.37** | **3.03** | **2.63** | 42.47 |

Tabel Data Transformasi Hasil Uji Organoleptik Terhadap Warna *Mix Juice*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Jumlah Sukrosa** | **Kelompok Ulangan** | **Lama Penyimpanan (minggu)** | **Total** | **Rata-rata** |
| **p1** | **p2** | **p3** | **p4** |
| s1 (10%) | 1 | 2.21 | 2.21 | 2.00 | 1.77 | 8.20 | 2.05 |
| 2 | 2.26 | 2.18 | 2.13 | 1.88 | 8.44 | 2.11 |
| **Sub Total** | **4.47** | **4.39** | **4.13** | **3.65** | 16.64 | 4.16 |
| **Rata-rata** | **2.23** | **2.19** | **2.07** | **1.83** | 8.32 | 2.08 |
| s2 (15%) | 1 | 2.18 | 2.05 | 1.87 | 1.74 | 7.84 | 1.96 |
| 2 | 2.08 | 1.99 | 1.93 | 2.10 | 8.10 | 2.02 |
| **Sub Total** | **4.26** | **4.04** | **3.80** | **3.84** | 15.94 | 3.98 |
| **Rata-rata** | **2.13** | **2.02** | **1.90** | **1.92** | 7.97 | 1.99 |
| s3 (20%) | 1 | 2.13 | 2.02 | 1.83 | 1.55 | 7.54 | 1.88 |
| 2 | 2.10 | 1.90 | 1.91 | 1.91 | 7.81 | 1.95 |
| **Sub Total** | **4.24** | **3.92** | **3.74** | **3.45** | 15.34 | 3.84 |
| **Rata-rata** | **2.12** | **1.96** | **1.87** | **1.73** | 7.67 | 1.92 |
| **Sub Total** | **12.97** | **12.34** | **11.67** | **10.94** | **47.92** | **11.98** |
| **Rata-rata** | **6.48** | **6.17** | **5.83** | **5.47** | **23.96** | **5.99** |

Tabel Nilai Rata-Rata Data Transformasi Hasil Uji Organoleptik Terhadap Warna *Mix Juice*

|  |  |
| --- | --- |
| **Kelompok Ulangan**  | **Perlakuan** |
| **s1p1** | **s1p2** | **s1p3** | **s1p4** | **s2p1** | **s2p2** | **s2p3** | **s2p4** | **s3p1** | **s3p2** | **s3p3** | **s3p4** | **Total** |
| **I** | 2.21 | 2.21 | 2.00 | 1.77 | 2.18 | 2.05 | 1.87 | 1.74 | 2.13 | 2.02 | 1.83 | 1.55 | 23.57 |
| **II** | 2.26 | 2.18 | 2.13 | 1.88 | 2.08 | 1.99 | 1.93 | 2.10 | 2.05 | 1.90 | 1.91 | 1.94 | 24.34 |
| **Jumlah** | **4.46653** | **4.38658** | **4.13358** | **3.653954** | **4.26362** | **4.03963** | **3.79539** | **3.83671** | **4.18545** | **3.917512** | **3.7373** | **3.4932** | 47.91 |
| **Rata-rata** | **2.23** | **2.19** | **2.07** | **1.83** | **2.13** | **2.02** | **1.90** | **1.92** | **2.09** | **1.96** | **1.87** | **1.75** | 23.95 |

**Perhitungan :**

 = (2,212 + 2,262 + ... + 1,912) – = 0,6892

Tabel. Analisis Variansi (ANAVA) Terhadap Warna *Mix Juice*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sumber Variansi** | **dB** | **JK** | **KT** | **F Hitung** | **F Tabel 5%** |
| Kelompok | 1 | 0.025 | 0.025 |   |   |
| Perlakuan | 11 | 0.505 | 0.046 |   |   |
| Taraf s | 2 | 0.147 | 0.074 | 5.088 \* | 3.98 |
| Taraf p | 3 | 0.421 | 0.140 | 9.702 \* | 3.59 |
| Interaksi sp | 6 | 0.010 | 0.002 | 0.120 tn | 3.09 |
| Galat  | 11 | 0.159 | 0.014 |  |  |
| Total | 23 | 0.689 |  |  |  |

Keterangan : tn = Tidak Berbeda Nyata

 \* = Berbeda Nyata

Kesimpulan :

Berdasarkan tabel anava diketahui bahwa F hitung ≥ F tabel pada taraf 5% maka dapat disimpulkan jumlah sukrosa (S) dan lama penyimpanan (P) berpengaruh terhadap warna *Mix Juice*, sehingga diberi tanda \* (berbeda nyata) maka perlu dilakukan uji lanjut duncan untuk faktor (S) dan (P), sedangkan untuk interaksi keduanya (SP) tidak berpengaruh terhadap warna *Mix Juice*, sehingga diberi tanda tn (tidak berbeda nyata) maka tidak perlu dilakukan uji lanjut duncan.

Sў = = = 0,0347

LSR = Sў x SSR

|  |  |  |  |
| --- | --- | --- | --- |
| Tabel uji jarak berganda Duncan untuk jumlah sukrosa |   |   |   |
| **SSR 5%** | **LSR 5%** | **Kode** | **Rata-rata** | **Perlakuan** | **Taraf Nyata 5%** |
| **1** | **2** | **3** |
|   |   | s3 | 1.92 |   |   |   |   |   |   | a |
| 3.11 | 0.108 | s2 | 1.99 | 0.074 | tn |   |   |   |   | ab |
| 3.27 | 0.114 | s1 | 2.08 | 0.162 | \* | 0.088 | tn |   |   | b |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Tabel uji jarak berganda Duncan untuk lama penyimpanan (P) |   |   |   |  |  |
| **SSR 5%** | **LSR 5%** | **Kode** | **Rata-rata** | **Perlakuan** | **Taraf Nyata 5%** |
| **1** | **2** | **3** | **4** |
|   |   | p3 | 5.47 |   |   |   |   |   |   |   |   | a |
| 3.11 | 0.108 | p3 | 5.83 | 0.361 | \* |   |   |   |   |   |   | b |
| 3.27 | 0.114 | p2 | 6.17 | 0.700 | \* | 0.339 | \* |   |   |   |   | c |
| 3.35 | 0.116 | p1 | 6.48 | 1.011 | \* | 0.650 | \* | 0.311 | \* |   |   | d |

Tabel Data Asli Hasil Uji Organoleptik Terhadap Aroma *Mix Juice*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Jumlah Sukrosa** | **Kelompok Ulangan** | **Lama Penyimpanan (minggu)** | **Total** | **Rata-rata** |
| **p1** | **p2** | **p3** | **p4** |
| s1 (10%) | 1 | 4.40 | 4.40 | 4.00 | 3.00 | 15.80 | 3.95 |
| 2 | 4.53 | 4.13 | 4.20 | 3.07 | 15.93 | 3.98 |
| **Sub Total** | **8.93** | **8.53** | **8.20** | **6.07** | 31.73 | 7.93 |
| **Rata-rata** | **4.47** | **4.27** | **4.10** | **3.03** | 15.87 | 3.97 |
| s2 (15%) | 1 | 4.33 | 3.80 | 3.07 | 2.47 | 13.67 | 3.42 |
| 2 | 3.87 | 3.47 | 3.27 | 3.93 | 14.53 | 3.63 |
| **Sub Total** | **8.20** | **7.27** | **6.33** | **6.40** | 28.20 | 7.05 |
| **Rata-rata** | **4.10** | **3.63** | **3.17** | **3.20** | 14.10 | 3.53 |
| s3 (20%) | 1 | 4.13 | 3.53 | 2.80 | 2.00 | 12.47 | 3.12 |
| 2 | 3.73 | 3.13 | 3.20 | 3.33 | 13.40 | 3.35 |
| **Sub Total** | **7.87** | **6.67** | **6.00** | **5.33** | 25.87 | 6.47 |
| **Rata-rata** | **3.93** | **3.33** | **3.00** | **2.67** | 12.93 | 3.23 |
| **Sub Total** | **25.00** | **22.47** | **20.53** | **17.80** | **85.80** | **21.45** |
| **Rata-rata** | **4.17** | **3.74** | **3.42** | **2.97** | **14.30** | **3.58** |

Tabel Nilai Rata-Rata Data Asli Hasil Uji Organoleptik Terhadap Aroma *Mix Juice*

|  |  |
| --- | --- |
| **Kelompok Ulangan**  | **Perlakuan** |
| **s1p1** | **s1p2** | **s1p3** | **s1p4** | **s2p1** | **s2p2** | **s2p3** | **s2p4** | **s3p1** | **s3p2** | **s3p3** | **s3p4** | **Total** |
| **I** | 4.40 | 4.40 | 4.00 | 3.00 | 4.33 | 3.80 | 3.07 | 2.47 | 4.13 | 3.53 | 2.80 | 2.00 | 41.93 |
| **II** | 4.53 | 4.13 | 4.20 | 3.07 | 3.87 | 3.47 | 3.27 | 3.93 | 3.73 | 3.13 | 3.20 | 3.33 | 43.87 |
| **Jumlah** | **8.93** | **8.53** | **8.20** | **6.07** | **8.20** | **7.27** | **6.33** | **6.40** | **7.87** | **6.67** | **6.00** | **5.33** | 85.80 |
| **Rata-rata** | **4.47** | **4.27** | **4.10** | **3.03** | **4.10** | **3.63** | **3.17** | **3.20** | **3.93** | **3.33** | **3.00** | **2.67** | 42.90 |

Tabel Data Transformasi Hasil Uji Organoleptik Terhadap Aroma *Mix Juice*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Jumlah Sukrosa** | **Kelompok Ulangan** | **Lama Penyimpanan (minggu)** | **Total** | **Rata-rata** |
| **p1** | **p2** | **p3** | **p4** |
| s1 (10%) | 1 | 2.21 | 2.21 | 2.11 | 1.86 | 8.39 | 2.10 |
| 2 | 2.24 | 2.15 | 2.16 | 1.88 | 8.43 | 2.11 |
| **Sub Total** | **4.45** | **4.36** | **4.27** | **3.74** | 16.82 | 4.20 |
| **Rata-rata** | **2.23** | **2.18** | **2.14** | **1.87** | 8.41 | 2.10 |
| s2 (15%) | 1 | 2.20 | 2.07 | 1.88 | 1.72 | 7.87 | 1.97 |
| 2 | 2.08 | 1.99 | 1.93 | 2.10 | 8.10 | 2.02 |
| **Sub Total** | **4.28** | **4.06** | **3.81** | **3.82** | 15.96 | 3.99 |
| **Rata-rata** | **2.14** | **2.03** | **1.91** | **1.91** | 7.98 | 2.00 |
| s3 (20%) | 1 | 2.15 | 2.00 | 1.81 | 1.57 | 7.53 | 1.88 |
| 2 | 2.10 | 1.90 | 1.91 | 1.91 | 7.81 | 1.95 |
| **Sub Total** | **4.25** | **3.90** | **3.72** | **3.47** | 15.34 | 3.84 |
| **Rata-rata** | **2.13** | **1.95** | **1.86** | **1.74** | 7.67 | 1.92 |
| **Sub Total** | **12.98** | **12.31** | **11.80** | **11.03** | **48.12** | **12.03** |
| **Rata-rata** | **6.49** | **6.16** | **5.90** | **5.51** | **24.06** | **6.02** |

Tabel Nilai Rata-Rata Data Transformasi Hasil Uji Organoleptik Terhadap Aroma *Mix Juice*

|  |  |
| --- | --- |
| **Kelompok Ulangan**  | **Perlakuan** |
| **s1p1** | **s1p2** | **s1p3** | **s1p4** | **s2p1** | **s2p2** | **s2p3** | **s2p4** | **s3p1** | **s3p2** | **s3p3** | **s3p4** | **Total** |
| **I** | 2.21 | 2.21 | 2.11 | 1.86 | 2.20 | 2.07 | 1.88 | 1.72 | 2.15 | 2.00 | 1.81 | 1.57 | 23.79 |
| **II** | 2.24 | 2.15 | 2.16 | 1.88 | 2.08 | 1.99 | 1.93 | 2.10 | 2.05 | 1.90 | 1.91 | 1.94 | 24.33 |
| **Jumlah** | **4.45** | **4.36** | **4.27** | **3.74** | **4.28** | **4.06** | **3.81** | **3.82** | **4.20** | **3.90** | **3.72** | **3.51** | 48.11 |
| **Rata-rata** | **2.23** | **2.18** | **2.14** | **1.87** | **2.14** | **2.03** | **1.91** | **1.91** | **2.10** | **1.95** | **1.86** | **1.76** | 24.06 |

**Perhitungan :**

 = (2,212 + 2,242 + ... + 1,912) – = 0,669

 = 0,669 – 0,012 – 0,179 – 0,382 – 0,007 = 0,163

Tabel. Analisis Variansi (ANAVA) Terhadap Aroma *Mix Juice*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sumber Variansi** | **dB** | **JK** | **KT** | **F Hitung** | **F Tabel 5%** |
| Kelompok | 1 | 0.012 | 0.012 |   |   |
| Perlakuan | 11 | 0.494 | 0.045 |   |   |
| Taraf s | 2 | 0.179 | 0.090 | 6.049 \* | 3.98 |
| Taraf p | 3 | 0.382 | 0.127 | 8.590 \* | 3.59 |
| Interaksi sp | 6 | 0.007 | 0.001 | 0.074 tn | 3.09 |
| Galat  | 11 | 0.163 | 0.015 |  |  |
| Total | 23 | 0.670 |  |  |  |

Keterangan : tn = Tidak Berbeda Nyata

 \* = Berbeda Nyata

Kesimpulan :

Berdasarkan tabel anava diketahui bahwa F hitung ≥ F tabel pada taraf 5% maka dapat disimpulkan jumlah sukrosa (S) dan lama penyimpanan (P) berpengaruh terhadap aroma *Mix Juice*, sehingga diberi tanda \* (berbeda nyata) maka perlu dilakukan uji lanjut duncan untuk faktor (S) dan (P), sedangkan untuk interaksi keduanya (SP) tidak berpengaruh terhadap aroma *Mix Juice*, sehingga diberi tanda tn (tidak berbeda nyata) maka tidak perlu dilakukan uji lanjut duncan.

Sў = = = 0,035

LSR = Sў x SSR

|  |  |  |  |
| --- | --- | --- | --- |
| Tabel uji jarak berganda Duncan untuk jumlah sukrosa (S) |   |   |   |
| **SSR 5%** | **LSR 5%** | **Kode** | **Rata-rata** | **Perlakuan** | **Taraf Nyata 5%** |
| **1** | **2** | **3** |
|   |   | s3 | 1.92 |   |   |   |   |   |   | a |
| 3.11 | 0.109 | s2 | 2.00 | 0.078 | tn |   |   |   |   | ab |
| 3.27 | 0.115 | s1 | 2.10 | 0.184 | \* | 0.107 | tn |   |   | b |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Tabel uji jarak berganda Duncan untuk lama penyimpanan (P) |   |   |   |  |  |
| **SSR 5%** | **LSR 5%** | **Kode** | **Rata-rata** | **Perlakuan** | **Taraf Nyata 5%** |
| **1** | **2** | **3** | **4** |
|   |   | p4 | 5.51 |   |   |   |   |   |   |   |   | a |
| 3.11 | 0.109 | p3 | 5.90 | 0.386 | \* |   |   |   |   |   |   | b |
| 3.27 | 0.115 | p2 | 6.16 | 0.643 | \* | 0.256 | \* |   |   |   |   | c |
| 3.35 | 0.118 | p1 | 6.49 | 0.976 | \* | 0.590 | \* | 0.333 | \* |   |   | d |