**Tabel 11.1 Data uji organoleptik aroma bekasam kering ikan lele sangkuriang.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Konsentrasi garam(a) | Konsentrasi nasi tiwul(b) |  | Kelompok ulangan |  | Total perlakuan | Rata-rata |
|  |  | 1 | 2 | 3 |  |  |
|  | b1 | 4 | 4,20 | 3,93 | 12,13 | 4,04 |
| a1 | b2 | 4,07 | 3,93 | 3,80 | 11,8 | 3,93 |
|  | b3 | 3,8 | 3,73 | 3,60 | 11,13 | 3,71 |
| Subtotal |  |  |  |  | 35,07 |  |
| Rata-rata |  |  |  |  | 3,89 |  |
|  | b1 | 3,33 | 3,67 | 3,47 | 10,47 | 3,49 |
| a2 | b2 | 3,33 | 3,33 | 3,27 | 9,93 | 3,31 |
|  | b3 | 3,60 | 4,07 | 3,80 | 11,47 | 3,82 |
| Subtotal |  |  |  |  | 31,87 |  |
| Rata-rata |  |  |  |  | 3,54 |  |
|  | b1 | 3,60 | 3,53 | 3,40 | 10,53 | 3,51 |
| a3 | b2 | 3,27 | 3,20 | 3,33 | 9,8 | 3,26 |
|  | b3 | 3,20 | 3,27 | 3,13 | 9,6 | 3,2 |
| Subtotal  |  |  |  |  | 29,93 |  |
| Rata-rata |  |  |  |  | 3,33 |  |
|  | Total | 32,20 | 32,93 | 31,73 | 96,89 | 32,28 |

**Tabel 11.2 Data Hasil transformasi aroma diubah ke dalam rumus** $\sqrt{x+0,5}$

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Konsentrasi garam(a) | Konsentrasi nasi tiwul(b) |  | Kelompok ulangan |  | Total perlakuan | Rata-rata |
|  |  | 1 | 2 | 3 |  |  |
|  | b1 | 2,1160 | 2,1643 | 2,1011 | 6,3814 | 2,1271 |
| a1 | b2 | 2,1309 | 2,0958 | 2,0659 | 6,2926 | 2,0975 |
|  | b3 | 2,0607 | 2,0492 | 2,0194 | 6,1356 | 2,0452 |
|  |  |  |  |  | 18,8096 | 2,0899 |
|  |  |  |  |  | 2,09 |  |
|  | b1 | 1,9517 | 2,0360 | 1,9833 | 5,971 | 1,9903 |
| a2 | b2 | 1,9517 | 1,9543 | 1,9376 | 5,8436 | 1,9478 |
|  | b3 | 2,0211 | 2,1309 | 2,0694 | 6,2214 | 2,0738 |
|  |  |  |  |  | 18,036 | 2,004 |
|  |  |  |  |  | 2,004 |  |
|  | b1 | 2,0150 | 2,0000 | 1,9710 | 5,986 | 1,9953 |
| a3 | b2 | 1,9350 | 1,9209 | 1,9543 | 5,8102 | 1,9367 |
|  | b3 | 1,9131 | 1,9280 | 1,8964 | 5,7375 | 1,9125 |
|  |  |  |  |  | 17,5337 | 1,9481 |
|  |  |  |  |  | 1,95 |  |
|  | Total | 18,0952 | 18,2796 | 17,9985 | 54,3733 | 18,1244 |
|  | Rata-rata | 2,0105 | 2,0311 | 1,9998 |  |  |

**Lampiran 11.3. Perhitungan Uji organoleptik aroma bekasam**

Faktor koreksi (FK) = $\frac{(18,1244)2}{27}$ = 12,1664

JKT = (2,116)2 + (2,1643)2 + (2,1011)2 + …+ ( 1,8964)2 = 0,1544

Jk K= (18,0952)2 + (18,2796)2 + (17,9985)2 = 0,005

JKA = $\frac{(2,1271 + 2,0975 + 2,0421)2 + (1,9904+1,9479+2,0738)2 + (1,9953+ 1,9368+ 1,9125)2}{9}$- 12,1664

= 0,0908

JKB = $\frac{(6,3814+ 5,9711+5,986)2 + (6,2962+5,8437+5,8103)2 + (6,1292+6,2215+5,7375)}{9}$- 12,1664= 0,0088

JKAB = $\frac{\left(2,1271\right)2+\left(2,0975\right)2+\left(2,0421\right)2+\left(1,9904\right)2+\left(1,9479\right)2+\left(2,0738\right)2+\left(1,9953\right)2+\left(1,9368\right)2+\left(1,9125\right)2}{3}$ – 12,1664 – 0,0908 – 0,0088 = 0,0377

JKG = 0,1544-0,005-0,0908-0,0088-0,0377 = 0,0126

**Tabel 11.4 Tabel Anava untuk aroma bekasam kering ikan lele sangkuriang**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **ANAVA** |  |  |  |  |  |  |
| Sumber keragaman | db | JK | KT | F hitung | F Tabel (5%) |
| kelompok | 2 | 0.005 |   |   |   |
| perlakuan | 8 | 0.137 |   |   |   |
| Faktor A |   | 2 | 0.091 | 0.0454 | 57.691 | 3.63\*\* |
| Faktor B |   | 2 | 0.009 | 0.0044 | 5.562 | 3.63\*\* |
| Interaksi AXB |   | 4 | 0.038 | 0.0094 | 11.964 | 3.01\*\* |
| Galat |   | 16 | 0.013 | 0.0008 |   |   |
| Total | 26 |   |   |   |   |

**Tabel 11.5 Uji jarak berganda Duncan terhadap aroma bekasam kering ikan lele sangkuriang**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| UJI LANJUT DUNCAN FAKTOR A | Sy =0.0094 |  |  |  |  |  |  |
| SSR | LSR | Rata-rata Perlakuan |   | Perlakuan |   |   |   |   |   | Taraf nyata |
| 5% | 5% | kode  | rata-rata | 1 |   | 2 |   | 3 |   | 5% |
|   |   | a3 | 1.948 |   |   |   |   |   |   | a |
| 3.00  |  0.0282  | a2 | 2.004 | 0.056 | \*\* |   |   |   |   | b |
| 3.15  |  0.0296  | a1 | 2.089 | 0.141 | \*\* | 0.085 | \*\* |   |   | c |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| UJI LANJUT DUNCAN FAKTOR B |  | Sy= | 0.0094 |  |  |  |  |
| SSR | LSR | Rata-rata Perlakuan | Perlakuan |   |   |   |   |   | Taraf nyata |
| 5% | 5% | kode  | rata-rata | 1 |   | 2 |   | 3 |   | 5% |
|   |   | b2 | 1.994 |   |   |   |   |   |   | a |
| 3.00  | 0.0282 | b3 | 2.010 | 0.016 | tn |   |   |   |   | ab |
| 3.15  | 0.0296 | b1 | 2.038 | 0.044 | \*\* | 0.028 | tn |   |   | b |

**Interaksi faktor AXB**

|  |  |  |  |
| --- | --- | --- | --- |
| SR | LSR | Rata-rata Perlakuan | Perlakuan |
| 5% | 5% | kode  | rata-rata | 1 |  | 2 |  | 3 |  | 4 |  | 5 |  | 6 |  | 7 |  | 8 |  |
|  |  | a3b3 | 1.912 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.00  | 0.049 | a3b2 | 1.937 | 0.024 | tn |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.15  | 0.051 | a2b2 | 1.948 | 0.035 | tn | 0.011 | tn |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.23  | 0.052 | a2b1 | 1.990 | 0.078 | \*\* | 0.054 | \*\* | 0.042 | tn |  |  |  |  |  |  |  |  |  |  |
| 3.30  | 0.053 | a3b1 | 1.995 | 0.083 | \*\* | 0.059 | \*\* | 0.047 | tn | 0.005 | tn |  |  |  |  |  |  |  |  |
| 3.34  | 0.054 | a1b3 | 2.043 | 0.131 | \*\* | 0.106 | \*\* | 0.095 | \*\* | 0.053 | tn | 0.048 | tn |  |  |  |  |  |  |
| 3.37  | 0.055 | a2b3 | 2.074 | 0.161 | \*\* | 0.137 | \*\* | 0.126 | \*\* | 0.083 | \*\* | 0.078 | \*\* | 0.031 | tn |  |  |  |  |
| 3.39  | 0.055 | a1b2 | 2.098 | 0.185 | \*\* | 0.161 | \*\* | 0.150 | \*\* | 0.107 | \*\* | 0.102 | \*\* | 0.054 | tn | 0.024 | tn |  |  |
| 3.41  | 0.055 | a1b1 | 2.127 | 0.215 | \*\* | 0.190 | \*\* | 0.179 | \*\* | 0.137 | \*\* | 0.132 | \*\* | 0.084 | \*\* | 0.053 | tn | 0.030 | tn |

**Tabel 11.6 Two Way aroma bekasam kering ikan lele sangkuriang**

|  |
| --- |
| Sy= 0.0094 |
| Faktor a1 |
| SSR | LSR | Rata-rata Perlakuan | Perlakuan | Taraf nyata |
| 5% | 5% | kode  | rata-rata | 1 |  | 2 |  | 3 |  | 5% |
|  |  | A1b3 | 2.043 |  |  |  |  |  |  | a |
| 3.00  | 0.087 | A1b2 | 2.098 | 0.054 | \*\* |  |  |  |  | b |
| 3.15  | 0.092 | a1b1 | 2.127 | 0.084 | \*\* | 0.030 | tn |  |  | c |
| Faktor a2 |
| SSR | LSR |  | Perlakuan |  |  |  |  |  | Taraf nyata |
| 5% | 5% | kode  | rata-rata | 1 |  | 2 |  | 3 |  | 5% |
|  |  | a2b2 | 1.948 |  |  |  |  |  |  | a |
| 3.00  | 0.028 | a2b1 | 1.990 | 0.042 | \*\* |  |  |  |  | a |
| 3.15  | 0.030 | a2b3 | 2.074 | 0.126 | \*\* | 0.083 | \*\* |  |  | b |

Faktor a3

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SSR | LSR |  | Perlakuan |  |  |  |  |  | Taraf nyata |
| 5% | 5% | kode  | rata-rata | 1 |  | 2 |  | 3 |  | 5% |
|  |  | a1b3 | 1.912 |  |  |  |  |  |  | a |
| 3.00  | 0.028 | a1b2 | 1.937 | 0.024 | tn |  |  |  |  | a |
| 3.15  | 0.030 | a1b1 | 1.995 | 0.083 | \*\* | 0.059 | \*\* |  |  | a |
| Faktor b1 |
| SSR | LSR | Rata-rata Perlakuan | Perlakuan |  |  |  |  |  | Taraf nyata |
| 5% | 5% | kode  | rata-rata | 1 |  | 2 |  | 3 |  | 5% |
|  |  | a2b1 | 1.990 |  |  |  |  |  |  | a |
| 3.00  | 0.028 | a3b1 | 1.995 | 0.005 | tn |  |  |  |  | a |
| 3.15  | 0.030 | a1b1 | 2.127 | 0.137 | \*\* | 0.132 | \*\* |  |  | c |

Faktor b2

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SSR | LSR | Rata-rata Perlakuan | Perlakuan |  |  |  |  |  | Taraf nyata |
| 5% | 5% | kode  | rata-rata | 1 |  | 2 |  | 3 |  | 5% |
|  |  | a2b2 | 1.937 |  |  |  |  |  |  | a |
| 3.00  | 0.028 | a3b2 | 1.948 | 0.011 | tn |  |  |  |  | b |
| 3.15  | 0.030 | a1b2 | 2.098 | 0.161 | \*\* | 0.150 | \*\* |  |  | c |

Faktor b3

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SSR | LSR | Rata-rata Perlakuan | Perlakuan |  |  |  |  |  | Taraf nyata |
| 5% | 5% | kode  | rata-rata | 1 |  | 2 |  | 3 |  | 5% |
|  |  | a2b3 | 1.912 |  |  |  |  |  |  | a |
| 3.00  | 0.028 | a3b3 | 2.043 | 0.131 | \*\* |  |  |  |  | b |
| 3.15  | 0.030 | a1b3 | 2.074 | 0.161 | \*\* | 0.031 | \*\* |  |  | b |

Two way aroma

|  |  |  |  |
| --- | --- | --- | --- |
| Konsentrasi garam |  | Konsentrasi nasi tiwul |  |
|  | b1 (30%) | b2 (35%) | b3 (40%) |
| a1 (10%) | 2,1271 Cc | 2,0975 Cb | 2,0431 Ba |
| a2 (15%) | 1,9479 Aa | 1,9904 Ba | 2,0738 Bb |
| a3 (20%) | 1,9953 Aa | 1,9368 Aa | 1,9125 Aa |