Lampiran 1 Kuesioner Uji Kesukaan Cookies Sorgum

Nama : 
Tanggal : 
Pengujian : kesukaan terhadap warna cookies sorgum.

Di hadapan saudara disajikan tiga sampel cookies sorgum. Saudara diminta untuk memberikan penilaian berdasarkan kesukaan Saudara terhadap warna cookies tersebut. Warna yang dimaksud adalah warna coklat yang menunjukkan cookies yang matang. Kisaran nilai yang dapat diberikan adalah sebagai berikut:
1 = tidak suka
2 = agak tidak suka
3 = netral
4 = agak suka
5 = suka

<table>
<thead>
<tr>
<th>Kode sampel</th>
<th>Nilai</th>
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</thead>
<tbody>
<tr>
<td>573</td>
<td>......</td>
</tr>
<tr>
<td>195</td>
<td>......</td>
</tr>
<tr>
<td>273</td>
<td>......</td>
</tr>
</tbody>
</table>

Komentar:
..........................................................................................................................
..........................................................................................................................
..........................................................................................................................
..........................................................................................................................
Nama : 
Tanggal : 
Pengujian : kesukaan terhadap rasa cookies sorgum.

Di hadapan saudara disajikan tiga sampel cookies sorgum. Saudara diminta untuk memberikan penilaian berdasarkan kesukaan Saudara terhadap rasa cookies tersebut. Kisaran nilai yang dapat diberikan adalah sebagai berikut:
1 = tidak suka
2 = agak tidak suka
3 = netral
4 = agak suka
5 = suka

<table>
<thead>
<tr>
<th>Kode sampel</th>
<th>Nilai</th>
</tr>
</thead>
<tbody>
<tr>
<td>573</td>
<td>......</td>
</tr>
<tr>
<td>195</td>
<td>......</td>
</tr>
<tr>
<td>273</td>
<td>......</td>
</tr>
</tbody>
</table>

Komentar:
........................................................................................................................................
........................................................................................................................................
........................................................................................................................................
........................................................................................................................................
........................................................................................................................................
Nama : 
Tanggal : 
Pengujian : kesukaan terhadap tekstur (kemudahan untuk digigit) 

"cookies" sorgum.

Di hadapan saudara disajikan tiga sampel cookies sorgum. Saudara diminta untuk memberikan penilaian berdasarkan kesukaan Saudara terhadap kemudahan cookies tersebut untuk digigit. Kisaran nilai yang dapat diberikan adalah sebagai berikut:
1 = tidak suka
2 = agak tidak suka
3 = netral
4 = agak suka
5 = suka

<table>
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<tr>
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<th>Nilai</th>
</tr>
</thead>
<tbody>
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<td>......</td>
</tr>
<tr>
<td>472</td>
<td>......</td>
</tr>
<tr>
<td>635</td>
<td>......</td>
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</table>

Komentar:
..........................................................................................................................
..........................................................................................................................
..........................................................................................................................
..................................................................................................................
..................................................................................................................
Nama :  
Tanggal :  
Pengujian : kesukaan terhadap mouthfeel cookies sorgum.

Di hadapan saudara disajikan tiga sampel cookies sorgum. Saudara diminta untuk memberikan penilaian berdasarkan kesukaan Saudara terhadap mouthfeel cookies tersebut ketika dikunyah di dalam mulut (tekstur di dalam mulut). Kisaran nilai yang dapat diberikan adalah sebagai berikut:

1 = tidak suka  
2 = agak tidak suka  
3 = netral  
4 = agak suka  
5 = suka

<table>
<thead>
<tr>
<th>Kode sampel</th>
<th>Nilai</th>
</tr>
</thead>
<tbody>
<tr>
<td>324</td>
<td>.....</td>
</tr>
<tr>
<td>756</td>
<td>.....</td>
</tr>
<tr>
<td>934</td>
<td>.....</td>
</tr>
</tbody>
</table>

Komentar:

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..........................................................................................................................
..........................................................................................................................
..........................................................................................................................
..........................................................................................................................
Lampiran 2 Penghitungan Derajat Sosoh Sorgum

Presentase penyosohan untuk DS0 adalah 0%, sedangkan untuk DS2 dan DS4 dapat dilihat pada tabel di bawah ini.

<table>
<thead>
<tr>
<th>Perlakuan</th>
<th>Derajat sosoh (%)</th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>Rata-rata</td>
</tr>
<tr>
<td>DS2</td>
<td>68,5</td>
<td>61,5</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td></td>
<td>59,5</td>
<td>68,5</td>
<td>57,5</td>
<td></td>
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<tr>
<td></td>
<td>55</td>
<td>67</td>
<td>61,5</td>
<td></td>
</tr>
<tr>
<td>Rata-rata</td>
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<td>67,75</td>
<td>63,25</td>
<td>65,5</td>
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<tr>
<td>DS4</td>
<td>90,38</td>
<td>92,45</td>
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<tr>
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<td>96,57</td>
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<tr>
<td></td>
<td>98,04</td>
<td>98,1</td>
<td>96,57</td>
<td></td>
</tr>
<tr>
<td>Rata-rata</td>
<td>97,31</td>
<td>97,65</td>
<td>97,83</td>
<td>97,74</td>
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</table>
Lampiran 3 ANOVA Kadar Air Tepung Sorgum

Hasil Pengamatan Kadar Air Tepung Sorgum

<table>
<thead>
<tr>
<th>Ulangan</th>
<th>Perlakuan</th>
<th>Kadar air (%)</th>
<th>Rata2 (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DS0</td>
<td>6,7588</td>
<td>12,7329</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12,6693</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>12,7965</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DS2</td>
<td>12,2849</td>
<td>12,5027</td>
</tr>
<tr>
<td></td>
<td></td>
<td>12,6083</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>12,615</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DS4</td>
<td>11,9648</td>
<td>11,9846</td>
</tr>
<tr>
<td></td>
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<td>11,9057</td>
<td></td>
</tr>
<tr>
<td></td>
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<td>11,9752</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>DS0</td>
<td>11,8539</td>
<td>11,8375</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11,7426</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>11,8211</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DS2</td>
<td>11,6367</td>
<td>11,6302</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11,6237</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>11,7023</td>
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</tr>
<tr>
<td></td>
<td>DS4</td>
<td>11,3423</td>
<td>11,2377</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11,2133</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>11,262</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>DS0</td>
<td>11,8429</td>
<td>11,84</td>
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<tr>
<td></td>
<td></td>
<td>11,8371</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>11,9058</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DS2</td>
<td>11,6276</td>
<td>11,6319</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11,6362</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>11,7012</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DS4</td>
<td>11,2318</td>
<td>11,2396</td>
</tr>
<tr>
<td></td>
<td></td>
<td>11,4031</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>11,2473</td>
<td></td>
</tr>
</tbody>
</table>

Uji ANOVA Kadar Air Tepung Sorgum

<table>
<thead>
<tr>
<th>Ulangan</th>
<th>Perlakuan</th>
<th>DS0</th>
<th>DS2</th>
<th>DS4</th>
<th>Jumlah</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DS0</td>
<td>12,7329</td>
<td>12,5027</td>
<td>11,9846</td>
<td>37,2202</td>
</tr>
<tr>
<td>2</td>
<td>DS0</td>
<td>11,8375</td>
<td>11,6302</td>
<td>11,2377</td>
<td>34,7054</td>
</tr>
<tr>
<td>3</td>
<td>DS0</td>
<td>11,84</td>
<td>11,6319</td>
<td>11,2396</td>
<td>34,7115</td>
</tr>
<tr>
<td>Jumlah</td>
<td></td>
<td>36,4104</td>
<td>35,7648</td>
<td>34,4619</td>
<td>106,6371</td>
</tr>
<tr>
<td>Rata2</td>
<td></td>
<td>12,1368</td>
<td>11,9216</td>
<td>11,4873</td>
<td></td>
</tr>
</tbody>
</table>
FK \( = \frac{106,6371^2}{9} \)
\( = 1263,496788 \)

JKK \( = \frac{(37,2202^2 + 34,7054^2 + 34,7115^2)}{3} - 1263,496788 \)
\( = 1,401981 \)

JKP \( = \frac{(36,4104^2 + 35,7648^2 + 34,4619^2)}{3} - 1263,496788 \)
\( = 0,656778 \)

JKT \( = (12,7329^2 + \ldots + 11,2396^2) - 1263,496788 \)
\( = 2,067264 \)

JKG \( = 2,067264 - 0,656778 - 1,401981 \)
\( = 0,008505 \)

Tabel ANOVA

<table>
<thead>
<tr>
<th>Sumber Variasi</th>
<th>db</th>
<th>JK</th>
<th>KT</th>
<th>F Hitung</th>
<th>F Tabel (( \alpha = 5% ))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kelompok</td>
<td>2</td>
<td>1,401981</td>
<td>0,700991</td>
<td>154,4521</td>
<td>8,94</td>
</tr>
<tr>
<td>Perlakuan</td>
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<td>0,656778</td>
<td>0,328389</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Galat</td>
<td>4</td>
<td>0,008505</td>
<td>0,002126</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>8</td>
<td>2,067264</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

F Hitung > F Tabel, \( Ha \) diterima, \( Ho \) ditolak

⇒ Ada pengaruh perbedaan derajat sosoh sorgum terhadap kadar air tepung sorgum.

Uji LSD

\[
\text{LSD}_{0,05} = t_{\alpha/2, N-k} \sqrt{\frac{2 \cdot \text{KTG}}{n}}
\]

\[
= 2,776 \sqrt{\frac{2 \cdot 0,002126}{3}}
\]
\[ 0,10451 \approx 0,10 \]

<table>
<thead>
<tr>
<th>Perlakuan</th>
<th>Rata-rata</th>
<th>Notasi</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS0</td>
<td>12,1368</td>
<td>c</td>
</tr>
<tr>
<td>DS2</td>
<td>11,9216</td>
<td>b</td>
</tr>
<tr>
<td>DS4</td>
<td>11,4873</td>
<td>a</td>
</tr>
</tbody>
</table>
Lampiran 4 ANOVA Daya Serap Air Tepung Sorgum

Hasil Pengamatan Daya Serap Air Tepung Sorgum

<table>
<thead>
<tr>
<th>Ulangan</th>
<th>Perlakuan</th>
<th>Berat sampel awal (BSA) (g)</th>
<th>Berat sampel akhir (BSAK) (g)</th>
<th>Berat sampel kering (g)</th>
<th>DSA (%)</th>
<th>Rata2 (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DS0</td>
<td>0,4999</td>
<td>1,2548</td>
<td>0,4362</td>
<td>173,06</td>
<td>175,66</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,501</td>
<td>1,2803</td>
<td>0,4372</td>
<td>178,25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DS2</td>
<td>0,4998</td>
<td>1,2432</td>
<td>0,4373</td>
<td>170</td>
<td>169,84</td>
</tr>
<tr>
<td></td>
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<td>0,5071</td>
<td>1,2598</td>
<td>0,4436</td>
<td>169,68</td>
<td></td>
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<tr>
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<td>DS4</td>
<td>0,5001</td>
<td>1,2089</td>
<td>0,4402</td>
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<td>160,65</td>
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<td></td>
<td>0,5048</td>
<td>1,2148</td>
<td>0,443</td>
<td>160,27</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>DS0</td>
<td>0,501</td>
<td>1,2711</td>
<td>0,4417</td>
<td>174,35</td>
<td>176,23</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,4998</td>
<td>1,2846</td>
<td>0,4406</td>
<td>178,12</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DS2</td>
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<td>1,2682</td>
<td>0,446</td>
<td>171,19</td>
<td>172,08</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,4998</td>
<td>1,1927</td>
<td>0,4006</td>
<td>172,97</td>
<td></td>
</tr>
<tr>
<td></td>
<td>DS4</td>
<td>0,5271</td>
<td>1,2759</td>
<td>0,4658</td>
<td>160,76</td>
<td>162,27</td>
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<tr>
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<td></td>
<td>0,5293</td>
<td>1,2987</td>
<td>0,4698</td>
<td>163,77</td>
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</tr>
<tr>
<td>3</td>
<td>DS0</td>
<td>0,4997</td>
<td>1,284</td>
<td>0,4405</td>
<td>178,05</td>
<td>177,05</td>
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<td>0,501</td>
<td>1,2786</td>
<td>0,4417</td>
<td>176,05</td>
<td></td>
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<tr>
<td></td>
<td>DS2</td>
<td>0,4999</td>
<td>1,2554</td>
<td>0,4418</td>
<td>171,01</td>
<td>172,03</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,5003</td>
<td>1,2653</td>
<td>0,4421</td>
<td>173,04</td>
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<tr>
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<td>DS4</td>
<td>0,5021</td>
<td>1,2227</td>
<td>0,4457</td>
<td>161,68</td>
<td>159,97</td>
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<td>0,5011</td>
<td>1,205</td>
<td>0,4448</td>
<td>158,25</td>
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</tr>
</tbody>
</table>

Uji ANOVA Daya Serap Air Tepung Sorgum

<table>
<thead>
<tr>
<th>Ulangan</th>
<th>Daya Serap Air (%)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>DS0</td>
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<tr>
<td>1</td>
<td>175,66</td>
</tr>
<tr>
<td>2</td>
<td>176,23</td>
</tr>
<tr>
<td>3</td>
<td>177,05</td>
</tr>
<tr>
<td>Jumlah</td>
<td>528,94</td>
</tr>
<tr>
<td>Rata2</td>
<td>176,3133</td>
</tr>
</tbody>
</table>

\[
FK = \frac{1525,78^2}{9} = 258667,178711
\]
JKK = \frac{(506,15^2 + 510,58^2 + 509,05^2)}{3} - 258667,178711
= 3,375089

JKP = \frac{(528,94^2 + 513,95^2 + 482,89^2)}{3} - 258667,178711
= 367,780689

JKT = (175,66^2 + \ldots + 159,97^2) - 258660,397511
= 374,821489

JKG = 374,821489 - 367,780689 - 3,375089
= 3,665711

Tabel ANOVA

<table>
<thead>
<tr>
<th>Sumber Variasi</th>
<th>db</th>
<th>JK</th>
<th>KT</th>
<th>F Hitung</th>
<th>F Tabel (α= 5%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kelompok</td>
<td>2</td>
<td>3,375089</td>
<td>1,687544</td>
<td>200,6599*</td>
<td>8,94</td>
</tr>
<tr>
<td>Perlakuan</td>
<td>2</td>
<td>367,780689</td>
<td>183,890344</td>
<td></td>
<td></td>
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<tr>
<td>Galat</td>
<td>4</td>
<td>3,665711</td>
<td>0,916428</td>
<td>0,916428</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>8</td>
<td>374,821489</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

F Hitung > F Tabel, Ha diterima, Ho ditolak

Ada pengaruh perbedaan derajat soso sorgum terhadap daya serap air tepung sorgum.

Uji LSD

\text{LSD}_{0.05} = t_{\alpha/2, N-k} \sqrt{ \frac{KTG}{n} }

= 2,776 \sqrt{ \frac{0,916428}{3} }

= 2,16922 \approx 2,17
<table>
<thead>
<tr>
<th>Perlakuan</th>
<th>Rata-rata</th>
<th>Notasi</th>
</tr>
</thead>
<tbody>
<tr>
<td>DS0</td>
<td>176,3133</td>
<td>c</td>
</tr>
<tr>
<td>DS2</td>
<td>171,3167</td>
<td>b</td>
</tr>
<tr>
<td>DS4</td>
<td>160,9567</td>
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</tr>
</tbody>
</table>
Lampiran 5 ANOVA Solubilitas Tepung Sorgum (Water Solubility Index)

Hasil Pengamatan Solubilitas Tepung Sorgum (Water Solubility Index)

<table>
<thead>
<tr>
<th>Ulangan</th>
<th>Perlakuan</th>
<th>BPK (g)</th>
<th>Berat sampel kering (g)</th>
<th>WSI (%)</th>
<th>Rata2 (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DS0</td>
<td>0,0149</td>
<td>0,4362</td>
<td>3,4159</td>
<td>3,3777</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0,0146</td>
<td>0,4372</td>
<td>3,3394</td>
<td>2,951</td>
</tr>
<tr>
<td></td>
<td>DS2</td>
<td>0,0126</td>
<td>0,4373</td>
<td>2,8813</td>
<td>1,9021</td>
</tr>
<tr>
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<td>0,0134</td>
<td>0,4436</td>
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ANOVA Uji Solubilitas Tepung Sorgum

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<tr>
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<tr>
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<tr>
<td>29,2574</td>
<td>1.7564</td>
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FK = \frac{29,2574^2}{9} = 67,252574
\[
\text{JKK} = \frac{(8,2308^2 + 8,198^2 + 8,1735^2)}{3} - 67,252574
\]
\[
= 0,000551
\]
\[
\text{JKP} = \frac{(10,4738^2 + 8,8593^2 + 5,2692^2)}{3} - 67,252574
\]
\[
= 4,731477
\]
\[
\text{JKT} = (3,377^2 + \ldots + 1,7855^2) - 67,252574
\]
\[
= 4,841119
\]
\[
\text{JKG} = 4,841119 - 4,731477 - 0,000551
\]
\[
= 0,109091
\]

Tabel ANOVA

<table>
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<tr>
<th>Sumber Variasi</th>
<th>Db</th>
<th>JK</th>
<th>KT</th>
<th>F Hitung</th>
<th>F Tabel ((\alpha = 5%))</th>
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F Hitung > F Tabel, Ha diterima, Ho ditolak

\(\Rightarrow\) Ada pengaruh perbedaan derajat sosoh sorgum terhadap solubilitas tepung sorgum.

Uji LSD

\[
\text{LSD}_{0.05} = t_{\alpha/2, n-k} \sqrt{\frac{K_{TG}}{n}}
\]

\[
= 2,776 \sqrt{\frac{0,027273}{3}}
\]

\[
= 0,374316 \approx 0,37
\]
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<th>Notasi</th>
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Lampiran 6 ANOVA Kadar Tanin Tepung Sorgum

- Penentuan Kurva Standar

Standar: Katekin 3 mg dalam 10 ml methanol absolute (3000µg/10 ml)

1. Katekin + Vanillin HCl

<table>
<thead>
<tr>
<th>Konsentrasi (µg/10 ml)</th>
<th>Absorbansi</th>
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<tbody>
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<td>0</td>
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<tr>
<td>600</td>
<td>0,038</td>
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<tr>
<td>1200</td>
<td>0,043</td>
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<tr>
<td>1800</td>
<td>0,079</td>
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<tr>
<td>2400</td>
<td>0,083</td>
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<tr>
<td>3000</td>
<td>0,105</td>
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</table>

\[ r = 0.97605053 \]

Persamaan kurva standar: \( y = 0.00003314285714x + 0.008285714285 \)

2. Katekin + HCl 4%

<table>
<thead>
<tr>
<th>Konsentrasi (µg/10 ml)</th>
<th>Absorbansi</th>
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<tr>
<td>600</td>
<td>0.068</td>
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<tr>
<td>1200</td>
<td>0.062</td>
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<tr>
<td>1800</td>
<td>0.064</td>
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<tr>
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<td>0.073</td>
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<td>3000</td>
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</table>

\[ r = 0.709203206 \]

Persamaan kurva: \( y = 0.00000319047619x + 0.062714285 \)
Hasil Pengamatan Analisa kadar tanin tepung sorgum

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<tr>
<th>Ulangan</th>
<th>Perlakan</th>
<th>Konsentrasi sampel (g/10 ml)</th>
<th>Absor-bansi</th>
<th>Rata2 Abs</th>
<th>Konsentrasi tanin dalam sampel (µg/g)</th>
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<td>0,016</td>
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</table>

- Contoh perhitungan:

DS0 (1) → Absorbansi = 0,026

\[
y = 0,00003314285714 x + 0,008285714286
\]

0,026 = 0,00003314285714 x + 0,008285714286

x = 534,4827587 µg/10 ml

Kadar tanin dalam sampel tepung sorgum DS0(2)
\[ \frac{534.4827587 \mu g / 10 ml}{2.9998 g / 10 ml} = 178.1728 \mu g/g CE \]

**Uji ANOVA Analisa Kadar Tanin Tepung Sorgum**

<table>
<thead>
<tr>
<th>Ulangan</th>
<th>Perlakuan</th>
<th>DS0</th>
<th>DS2</th>
<th>DS4</th>
<th>Jumlah</th>
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<tr>
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<td>127,8622</td>
<td>77,5759</td>
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</tbody>
</table>

\[
\begin{align*}
FK & = \frac{1150.4887^2}{9} \\
& = 147069.360981 \\
JKK & = \frac{(383.5939^2 + 383.6026 + 383.2933^2)}{3} - 147069.360981 \\
& = 0.020827 \\
JKP & = \frac{(534.1744^2 + 383.5866^2 + 232.7277^2)}{3} - 147069.360981 \\
& = 15145.022907 \\
JKT & = (178.1253^2 + ... + 77.5423^2) - 147069.360981 \\
& = 15145.076271 \\
JKG & = 15145.076271 - 15145.022907 - 0.020827 \\
& = 0.032537
\end{align*}
\]
Tabel ANOVA

<table>
<thead>
<tr>
<th>Sumber Variasi</th>
<th>df</th>
<th>JK</th>
<th>KT</th>
<th>F Hitung</th>
<th>F Tabel (α= 5%)</th>
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</table>

F Hitung > F Tabel, Ha diterima dan H0 ditolak

→ Ada pengaruh perbedaan derajat sosoh sorgum terhadap kadar tanin tepung sorgum.

Uji LSD

\[
LSD_{0,05} = t_{α/2, N-k} \sqrt{\frac{2 \text{ KTG}}{n}}
\]

\[
= 2,776 \sqrt{\frac{2 \times 0,008134}{3}}
\]

\[
= 0,2044239 \approx 0,2044
\]

<table>
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<tr>
<th>Perlakuan</th>
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<th>Notasi</th>
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Hasil Uji Presisi Penentuan Kadar Tanin Tepung Sorgum

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<tr>
<td>Rata2</td>
<td>178,0581</td>
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<tr>
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→ Horrat ≤ 2, pengujian kadar tanin tepung sorgum presisis.
Lampiran 7 ANOVA Kadar Air Cookies Sorgum

Hasil Pengamatan Kadar Air Cookies Sorgum

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ANOVA Kadar Air Cookies Sorgum
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\[ FK = \frac{1476,453^2}{9} = 18,541636 \]

\[ JKK = \frac{(5,2256^2 + 4,079^2 + 3,6134^2)}{3} - 18,541636 = 0,002177 \]

\[ JKP = \frac{(3,5437^2 + 5,1227^2 + 4,2516^2)}{3} - 18,541636 = 0,417020 \]

\[ JKT = (1,0198^2 + \ldots + 1,0160^2) - 18,541636 = 1,478725 \]

\[ JKG = 1,478725 - 0,417020 - 0,002177 = 0,602743 \]

Tabel ANOVA

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F Hitung < F Tabel, Ha ditolak, H0 diterima

Tidak ada pengaruh perbedaan derajat sosoh sorgum terhadap kadar air cookies sorgum.
Lampiran 8 ANOVA Daya Patah *Cookies Sorgum*

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**Uji ANOVA Daya Patah Cookies Sorgum**

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\[ FK = \frac{0.335^2}{18} = 0.006235 \]

\[ JKK = \frac{(0.0363^2 + \ldots + 0.0363^2)}{3} - 0.006235 = 0.002177 \]
\[ JKP = \frac{(0,0914^2 + 0,086^2 + 0,1576^2)}{3} - 0,006235 \]
\[ = 0,00053 \]

\[ JKT = (0,0155^2 + \ldots + 0,0115^2) - 0,006235 \]
\[ = 0,006863 \]

\[ JKG = 0,006863 - 0,00053 - 0,002177 \]
\[ = 0,004155 \]

**ANOVA Daya Patah Cookies Sorgum**

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F Hitung < F tabel, Ha ditolak, H0 diterima

- Tidak ada pengaruh perbedaan derajat sosoh sorgum terhadap daya patah *cookies sorgum*. 
Lampiran 9 ANOVA Kesukaan terhadap Warna *Cookies Sorgum*

Hasil Pengamatan Uji Organoleptik Kesukaan terhadap Warna *Cookies Sorgum*

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115 | 3 | 5 | 2 | 10
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118 | 5 | 2 | 3 | 10
119 | 5 | 4 | 3 | 12
120 | 3 | 3 | 2 | 8
\(\Sigma\) perlakuan | 403 | 405 | 407 | 1215
Rata-rata | 3.3583 | 3.3750 | 3.3917 | 10.125

Keterangan:  
- 573 = Sorgum tidak disosoh  
- 195 = Sorgum disosoh 4 kali  
- 273 = Sorgum disosoh 2 kali

Faktor koreksi (FK) = 4100.6250
JKK = 103.7083
JKP = 0.0667
JKT = 542.3750
JKG = 438.6000

**Tabel ANOVA**

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Lampiran 10 ANOVA Kesukaan terhadap Rasa *Cookies* Sorgum

Hasil Pengamatan Uji Organoleptik Kesukaan terhadap Rasa *Cookies* Sorgum

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114 | 4 | 5 | 5 | 14
115 | 3 | 2 | 3 | 8
116 | 2 | 3 | 4 | 9
117 | 1 | 3 | 2 | 6
118 | 3 | 4 | 5 | 12
119 | 4 | 3 | 3 | 10
120 | 5 | 4 | 2 | 11
∑ perlakuan | 433 | 392 | 410 | 1235
Rata-rata | 3.6083 | 3.2667 | 3.4167 | 10.291667

Keterangan: 573 = Sorgum tidak disosoh
195 = Sorgum disosoh 4 kali
273 = Sorgum disosoh 2 kali

Faktor koreksi (FK) = 4236.7361
JKK = 159.5972
JKP = 7.0389
JKT = 556.2639
JKG = 389.6278

Tabel ANOVA

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F hitung < F tabel, tidak ada perbedaan kesukaan konsumen terhadap rasa cookies sorgum.
Lampiran 11 ANOVA Kesukaan terhadap Tekstur Cookies Sorgum

Hasil Pengamatan Uji Organoleptik Kesukaan terhadap Tekstur Cookies Sorgum

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117 | 2 | 3 | 1 | 6
118 | 3 | 5 | 4 | 12
119 | 4 | 3 | 5 | 12
120 | 4 | 5 | 4 | 13
Σ perlakuan | 433 | 429 | 450 | 1312
Rata-rata | 3.6083 | 3.5750 | 3.7500 | 10.933333

Keterangan: 814 = Sorgum tidak disosoh
472 = Sorgum disosoh 2 kali
635 = Sorgum disosoh 4 kali

Faktor koreksi (FK) = 4781.5111
JKK = 151.1556
JKP = 2.0722
JKT = 440.4889
JKG = 287.2611

**Tabel ANOVA**

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Lampiran 12 ANOVA Kesukaan terhadap *Mouthfeel Cookies Sorgum*

Hasil Pengamatan Uji Organoleptik Kesukaan terhadap *Mouthfeel Cookies Sorgum*

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118 | 2 | 3 | 4 | 9
119 | 4 | 5 | 3 | 12
120 | 3 | 5 | 5 | 13
Σ perlakuan | 416 | 403 | 427 | 1246
Rata-rata | 3.4667 | 3.3583 | 3.5583 | 10.383333

Keterangan: 324 = Sorgum disosoh 4 kali 756 = Sorgum disosoh 2 kali 934 = Sorgum tidak disosoh

Faktor koreksi (FK) = 4312.5444
JKK = 180.1222
JKP = 2.4056
JKT = 503.4556
JKG = 320.9278

Tabel ANOVA

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F hitung < F tabel, tidak ada perbedaan kesukaan konsumen terhadap mouthfeel cookies sorgum.