**Lampiran 1. Jadwal Penelitian**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Kegiatan** | **Desember** | **Januari** | **Februari** | **Maret** | **April** | **Mei** | **Juni** | **Juli**  |
| Perencanaan dan Kegiatan Proposal |  |  |  |  |  |  |  |  |
| Penelitian Pendahuluan |  |  |  |  |  |  |  |  |
| Penelitian |  |  |  |  |  |  |  |  |
| Laporan Hasil Penelitian |  |  |  |  |  |  |  |  |
| Pelaksanaan sidang KTI |  |  |  |  |  |  |  |  |
| Persetujuan revisi KTI |  |  |  |  |  |  |  |  |

**Lampiran 2. Anggaran Dana Penelitian**

|  |  |  |
| --- | --- | --- |
| **No** | **Uraian Kegiatan** | **Biaya (Rp)** |
| **1** | **Penyusunan Proposal**1. Studi pendahuluan
2. Kertas 1 rim (A4 70 gram)
3. Pengetikan, pengeprintan, dan revisi
4. Penjilidan
5. Transportasi
 | 250.00035.00050.0005.00020.000 |
| **2** | **Pelaksanaan Penelitian**1. Transportasi
2. Bahan dan alat penelitian
3. Kertas dan alat tulis
4. Fotocopy
5. Biaya laboraturium
 | 20.000100.00025.00010.0001.670.000 |
| **3** | **Penyusunan Data**1. Pengetikan, pengeprintan, dan revisi
2. Penjilidan dan penggandaan
3. Lain-lain
 | 100.000100.00050.000 |
| **Total** | **2.435.000** |

**Lampiran 3. Formulir Uji Skala Kesukaan (Hedonic Scale Test)**

**Uji Kesukaan (Hedonic Scale Test)**

Nama Panelis :

Tanggal :

Produk : Susu Jagung Manis Substitusi Kecambah Kacang Tolo

Kriteria mutu : Warna, Aroma dan Rasa

**Instruksi**

 Dihadapan Saudara disediakan 4 Susu Jagung Manis. Saudara diminta untuk memberikan penilaian mengenai warna, aroma, rasa dan viskositas dengan cara menentukan nilai sesuai dengan tingkat kesukaan pada kolom yang telah disediakan

1 = Sangat tidak suka

2 = Tidak suka

3 = Suka

4 = Sangat suka

 Setelah Saudara mencicipi salah satu sampel, Saudara diminta meminum air putih yang telah disediakan sebelum mencicipi sampel yang lain. Selain itu Saudara juga diminta memberikan kritik dan saran mengenai warna, aroma, rasa dari sampel yang telah diberikan.

|  |  |  |  |
| --- | --- | --- | --- |
| **Kode** | **Warna** | **Aroma** | **Rasa** |
| 811 |  |  |  |
| 134 |  |  |  |
| 116 |  |  |  |
| 468 |  |  |  |

Kritik dan Saran :

***Terima Kasih atas Partisipasinya***

**Lampiran 4. Formulir Penentuan Perlakuan Terbaik**

**Penentuan Perlakuan Terbaik**

Produk : Susu Jagung Manis Substitusi Kecambah Kacang Tolo sebagai PMT - AS

Nama :

Tanggal :

**Petunjuk**

 Bapak/Ibu diminta untuk mengemukakan pendapat tentang urutan (ranking) pentingnya variabel berikut terhadap produk susu jagung manis dengan substitusi kecambah kacang tolo sebagai PMT - AS, dengan mengurutkan 10 variabel dari tertinggi ke terendah dan mencantumkan angka 1-10. Angka terendah untuk variabel kurang penting dan angka tertinggi untuk yang terpenting. Pemberian nilai boleh sama apabila dirasa variabel yang dinilai sama penting.

|  |  |
| --- | --- |
| **Variabel** | **Rangking** |
| Nilai Energi |  |
| Kadar Karbohidrat |  |
| Kadar Protein |  |
| Kadar Lemak |  |
| Kadar Air |  |
| Kadar Abu |  |
| Warna |  |
| Aroma |  |
| Rasa |  |
| Viskositas |  |

Komentar dan Saran: ………………………………………………………………………………………………………………………………………………………………………………………………

***Atas partisipasi Bapak/Ibu, saya ucapkan terimakasih***

**Lampiran 5. Nomor Urut, Bilangan Random, Ranking, Dan Layout Penelitian**

Agar semua unit penelitian mempunyai peluang untuk mendapatkan perlakuan yang sama maka dalam pengambilan sampel dilakukan randomisasi dengan langkah-langkah sebagai berikut :

1. Memberikan nomor urut 1-12 pada unit penelitian
2. Mengambil bilangan random sebanyak unit penelitian dengan menggunakan kalkulator
3. Memberi ranking pada bilangan random yang diperoleh seperti yang disajikan pada tabel 6

Tabel 12. Nomor urut, bilangan random dan ranking

|  |  |  |
| --- | --- | --- |
| 1116**1** | 2299**5** | 3947**12** |
| 4811**10** | 5593**8** | 6683**9** |
| 7134**2** | 8565**7** | 9222**3** |
| 10468**6** | 11866**11** | 12238**4** |

Langkah selanjutnya yaitu memasukkan semua jenis taraf perlakuan pada tiap unit penelitian kedalam *lay-out* penelitian. Urutan 1 ditempati oleh unit penelitian X01, urutan 2 ditempati oleh unit penelitian X21, urutan 3 ditempati oleh unit penelitian X23., dan seterusnya sampai urutan 12 ditempati oleh penelitian X03 sebagaimana disajikan pada tabel 7.

Tabel 13. Layout penelitian

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **1**X01 | **2**X21 | **3**X23 | **4**X33 | **5**X02 | **6**X31 |
| **7**X22 | **8**X12 | **9**X13 | **10**X11 | **11**X32 | **12**X03 |

Keterangan :

1,2,3,….,12 : nomor urut

X01,X02,…,X33 : unit penelitian

**Lampiran 6. Perhitungan Nilai Gizi Tiap Taraf Perlakuan Susu Jagung Manis Substitusi Kecambah Kacang Tolo Secara Empiris**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **P0** |  |  |  |  |  |
| **Bahan** | **Berat (g)** | **Energi (Kkal)** | **Protein (g)** | **Lemak (g)** | **Kh (g)** |
| Jagung Manis | 150 | 144 | 5.25 | 1.5 | 34.2 |
| Kecambah Kacang Tolo | 0 | 0 | - | 0 | 0 |
| Gula | 42 | 182 | 0 | 0 | 47 |
| Air | 400 | - | - | - | - |
| **Jumlah** | 450 | 326 | 5.25 | 1.5 | 81.2 |
| **Per 100 ml Susu** | 100 | 72.44 | 1.16 | 0.33 | 18.04 |

**P1**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Bahan** | **Berat (g)** | **Energi (Kkal)** | **Protein (g)** | **Lemak (g)** | **Kh (g)** |
| Jagung Manis | 100 | 96 | 3.5 | 1 | 22.8 |
| Kecambah Kacang Tolo | 50 | 171 | 11.45 | 0.7 | 30.8 |
| Gula | 42 | 182 | 0 | 0 | 47 |
| Air | 400 | - | - | - | - |
| Wijen | 5 | 28.4 | 0.96 | 2.55 | 0.91 |
| Kacang Tanah | 10 | 45.2 | 2.5 | 4.2 | 2.1 |
| **Jumlah** | 450 | 522.6 | 18.41 | 8.45 | 103.61 |
| **Per 100 ml Susu** | 100 | 95.01 | 3.34 | 1.53 | 18.83 |

**P2**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Bahan** | **Berat (g)** | **Energi (Kkal)** | **Protein (g)** | **Lemak (g)** | **Kh (g)** |
| Jagung Manis | 75 | 72 | 2.625 | 0.75 | 17.1 |
| Kecambah Kacang Tolo | 75 | 256.5 | 17.175 | 1.05 | 46.2 |
| Gula | 42 | 182 | 0 | 0 | 47 |
| Air | 400 | - | - | - | - |
| Wijen | 5 | 28.4 | 0.96 | 2.55 | 0.91 |
| Kacang Tanah | 10 | 45.2 | 2.5 | 4.2 | 2.1 |
| **Jumlah** | 550 | 584.1 | 23.26 | 8.55 | 113.30 |
| **Per 100 ml Susu** | 100 | 106.2 | 4.23 | 1.55 | 20.60 |

**P3**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Bahan** | **Berat (g)** | **Energi (Kkal)** | **Protein (g)** | **Lemak (g)** | **Kh (g)** |
| Jagung Manis | 50 | 48 | 1.75 | 0.5 | 11.4 |
| Kecambah Kacang Tolo | 100 | 342 | 22.9 | 1.4 | 61.6 |
| Gula | 42 | 182 | 0 | 0 | 47 |
| Air | 400 | - | - | - | - |
| Wijen | 5 | 28.4 | 0.96 | 2.55 | 0.91 |
| Kacang Tanah | 10 | 45.2 | 2.5 | 4.2 | 2.1 |
| **Jumlah** | 450 | 645.6 | 28.11 | 8.65 | 123.01 |
| **Per 100 ml Susu** | 100 | 117.38 | 5.11 | 1.57 | 22.36 |

**Lampiran 7. Hasil Ranking Pentingnya Peranan Variabel terhadap Mutu Susu Jagung Manis**

|  |  |
| --- | --- |
| **Responden** | **Variabel**  |
| **Nilai Energi** | **Kadar KH** | **Kadar Protein** | **Kadar Lemak** | **Warna** | **Aroma** | **Rasa** | **Viskositas** |
| 1 | 8 | 6 | 5 | 4 | 9 | 10 | 11 | 3 |
| 2 | 5 | 8 | 6 | 7 | 9 | 6 | 10 | 3 |
| 3 | 10 | 9 | 8 | 6 | 7 | 7 | 7 | 5 |
| 4 | 7 | 5 | 9 | 8 | 10 | 10 | 11 | 4 |
| 5 | 10 | 8 | 9 | 7 | 7 | 8 | 8 | 5 |
| 6 | 11 | 4 | 8 | 7 | 9 | 8 | 10 | 2 |
| 7 | 10 | 8 | 11 | 9 | 9 | 8 | 11 | 7 |
| 8 | 4 | 6 | 8 | 7 | 9 | 9 | 11 | 3 |
| 9 | 6 | 5 | 10 | 7 | 7 | 9 | 8 | 6 |
| 10 | 10 | 11 | 8 | 9 | 8 | 4 | 6 | 5 |
| Jumlah | **81** | **70** | **82** | **71** | **84** | **79** | **93** | **43** |
| Rata – rata | **8.1** | **7** | **8.2** | **7.1** | **8.4** | **7.9** | **9.3** | **4.3** |
| Ranking  | **4** | **7** | **3** | **6** | **2** | **5** | **1** | **8** |
| Bobot Variabel | **0.87** | **0.75** | **0.88** | **0.76** | **0.90** | **0.85** | **1.00** | **0.46** |

**Lampiran 8. Hasil Penentuan Taraf Perlakuan Terbaik**

|  |  |
| --- | --- |
| **Taraf Perlakuan** | **Variabel**  |
| **Nilai Energi** | **Kadar KH** | **Kadar Protein** | **Kadar Lemak** | **Warna** | **Aroma** | **Rasa** | **Viskositas** |
| P0 | 45.14 | 6.53 | 4.34 | 0.22 | 3 | 2.8 | 2.88 | 4.4 |
| P1 | 61.3 | 6.15 | 6.53 | 2.13 | 2.84 | 2.64 | 2.6 | 5.8 |
| P2 | 73.03 | 6.05 | 6.62 | 2.23 | 2.6 | 2.48 | 2.68 | 7.25 |
| P3 | 73.57 | 4.26 | 6.74 | 2.43 | 2.48 | 2.24 | 1.76 | 13.75 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Variabel** | **BN** | **P0** | **P1** | **P2** | **P3** |
| **Ne** | **Nh** | **Ne** | **Nh** | **Ne** | **Nh** | **Ne** | **Nh** |
| Nilai Energi | 0.134 | 0.00 | 0.00 | 0.57 | 0.08 | 0.98 | 0.13 | 1.00 | 0.13 |
| Kadar KH | 0.116 | 1.00 | 0.12 | 0.79 | 0.09 | 0.83 | 0.10 | 0.00 | 0.00 |
| Kadar Protein | 0.136 | 0.00 | 0.00 | 0.87 | 0.12 | 0.95 | 0.13 | 1.00 | 0.14 |
| Kadar Lemak | 0.118 | 0.00 | 0.00 | 0.86 | 0.10 | 0.95 | 0.11 | 1.00 | 0.12 |
| Warna | 0.139 | 1.00 | 0.14 | 0.69 | 0.10 | 0.23 | 0.03 | 0.00 | 0.00 |
| Aroma | 0.131 | 1.00 | 0.13 | 0.71 | 0.09 | 0.43 | 0.06 | 0.00 | 0.00 |
| Rasa | 0.154 | 1.00 | 0.15 | 0.75 | 0.12 | 0.82 | 0.13 | 0.00 | 0.00 |
| Viskositas | 0.071 | 0.00 | 0.00 | 0.15 | 0.01 | 0.30 | 0.02 | 1.00 | 0.07 |
| Jumlah |  | **0.54** |  | **0.70** |  | **0.71** |  | **0.46** |

Keterangan :

BV : Bobot Variabel Ne : Nilai Efektifitas

BN : Bobot Normal Nh : Nilai Hasil

Warna Kuning : Nilai Terendah Warna Hijau : Nilai Tertinggi

**Lampiran 9. Hasil Uji Mutu Organoleptik Susu Jagung Manis Substitusi Kecambah Kacang Tolo**

|  |  |  |  |
| --- | --- | --- | --- |
| Panelis | Warna | Aroma | Rasa |
| P0 | P1 | P2 | P3 | P0 | P1 | P2 | P3 | P0 | P1 | P2 | P3 |
| 1 | 3 | 3 | 3 | 1 | 2 | 4 | 3 | 3 | 1 | 3 | 2 | 1 |
| 2 | 3 | 3 | 2 | 3 | 2 | 3 | 4 | 3 | 3 | 4 | 3 | 2 |
| 3 | 2 | 3 | 3 | 4 | 3 | 3 | 2 | 2 | 3 | 1 | 2 | 1 |
| 4 | 3 | 4 | 3 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 1 |
| 5 | 3 | 2 | 2 | 3 | 2 | 1 | 3 | 4 | 4 | 3 | 3 | 2 |
| 6 | 3 | 3 | 4 | 3 | 2 | 4 | 2 | 2 | 2 | 2 | 3 | 3 |
| 7 | 3 | 2 | 3 | 4 | 3 | 1 | 1 | 1 | 2 | 3 | 2 | 1 |
| 8 | 2 | 2 | 2 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 1 |
| 9 | 3 | 3 | 3 | 4 | 4 | 3 | 3 | 3 | 2 | 3 | 4 | 1 |
| 10 | 3 | 3 | 3 | 4 | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 1 |
| 11 | 3 | 3 | 3 | 2 | 2 | 3 | 2 | 2 | 3 | 1 | 2 | 3 |
| 12 | 3 | 2 | 2 | 2 | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 1 |
| 13 | 4 | 2 | 2 | 1 | 3 | 2 | 2 | 2 | 3 | 1 | 3 | 3 |
| 14 | 4 | 3 | 1 | 2 | 3 | 2 | 4 | 1 | 4 | 4 | 2 | 1 |
| 15 | 4 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 1 |
| 16 | 3 | 3 | 2 | 2 | 4 | 3 | 3 | 2 | 2 | 3 | 3 | 2 |
| 17 | 3 | 4 | 3 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 1 |
| 18 | 2 | 4 | 3 | 3 | 4 | 4 | 3 | 2 | 3 | 2 | 3 | 3 |
| 19 | 3 | 3 | 2 | 1 | 3 | 2 | 3 | 2 | 2 | 1 | 3 | 1 |
| 20 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 3 | 1 |
| 21 | 3 | 2 | 2 | 2 | 3 | 2 | 1 | 1 | 3 | 2 | 2 | 3 |
| 22 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | 3 | 2 | 1 |
| 23 | 3 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 4 | 4 | 3 | 3 |
| 24 | 4 | 3 | 3 | 2 | 4 | 3 | 3 | 2 | 4 | 4 | 4 | 3 |
| 25 | 3 | 3 | 3 | 2 | 3 | 4 | 2 | 2 | 2 | 4 | 3 | 3 |
| Jumlah | 75 | 71 | 65 | 62 | 70 | 66 | 62 | 56 | 72 | 65 | 67 | 44 |
| Rata – rata | 3 | 2.84 | 2.6 | 2.48 | 2.8 | 2.64 | 2.48 | 2.24 | 2.88 | 2.6 | 2.68 | 1.76 |
| Median | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 1 |
| Modus | 3 | 3 | 3 | 2 | 3 | 3 | 2 | 2 | 3 | 3 | 3 | 1 |

**Lampiran 10. Analisis *Oneway Annova* Nilai Energi Susu Jagung Manis Substitusi Kecambah Kacang Tolo**

**ONEWAY**

|  |
| --- |
| **Descriptives** |
| ENERGI  |
|  | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | Minimum |
| Lower Bound | Upper Bound |
| P0 | 2 | 45.1350 | 2.04354 | 1.44500 | 26.7745 | 63.4955 | 43.69 |
| P1 | 2 | 62.6900 | 1.11723 | .79000 | 52.6521 | 72.7279 | 61.90 |
| P2 | 2 | 73.4950 | .82731 | .58500 | 66.0619 | 80.9281 | 72.91 |
| P3 | 2 | 72.1900 | 2.03647 | 1.44000 | 53.8931 | 90.4869 | 70.75 |
| Total | 8 | 63.3775 | 12.17038 | 4.30288 | 53.2028 | 73.5522 | 43.69 |

|  |
| --- |
| **ANNOVA**  |
|  | Sum of Squares | df | Mean Square | F | Sig. |
| Between Groups | 1026.571 | 3 | 342.190 | 133.461 | .000 |
| Within Groups | 10.256 | 4 | 2.564 |  |  |
| Total | 1036.827 | 7 |  |  |  |

**Post Hoc Tests**

|  |
| --- |
| **ENERGI** |
| Duncana  |
| PERLAKUAN | N | Subset for alpha = 0.05 |
| 1 | 2 | 3 |
| P0 | 2 | 45.1350 |  |  |
| P1 | 2 |  | 62.6900 |  |
| P3 | 2 |  |  | 72.1900 |
| P2 | 2 |  |  | 73.4950 |
| Sig. |  | 1.000 | 1.000 | .461 |

|  |
| --- |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 2.000. |

**Lampiran 11. Analisis *Oneway Annova* Kadar Karbohidrat Susu Jagung Manis Substitusi Kecambah Kacang Tolo**

**ONEWAY**

|  |
| --- |
| **Descriptives** |
| KARBOHIDRAT  |
|  | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | Minimum |
| Lower Bound | Upper Bound |
| P0 | 2 | 6.5350 | .55861 | .39500 | 1.5160 | 11.5540 | 6.14 |
| P1 | 2 | 6.1500 | .05657 | .04000 | 5.6418 | 6.6582 | 6.11 |
| P2 | 2 | 6.0500 | .25456 | .18000 | 3.7629 | 8.3371 | 5.87 |
| P3 | 2 | 4.2650 | .20506 | .14500 | 2.4226 | 6.1074 | 4.12 |
| Total | 8 | 5.7500 | .96843 | .34239 | 4.9404 | 6.5596 | 4.12 |
| **ANNOVA**  |
|  | Sum of Squares | df | Mean Square | F | Sig. |
| Between Groups | 6.143 | 3 | 2.048 | 19.404 | .008 |
| Within Groups | .422 | 4 | .106 |  |  |
| Total | 6.565 | 7 |  |  |  |

**Post Hoc Tests**

|  |
| --- |
| **KARBOHIDRAT** |
| Duncana  |
| PERLAKUAN | N | Subset for alpha = 0.05 |
| 1 | 2 |
| P3 | 2 | 4.2650 |  |
| P2 | 2 |  | 6.0500 |
| P1 | 2 |  | 6.1500 |
| P0 | 2 |  | 6.5350 |
| Sig. |  | 1.000 | .216 |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 2.000. |

**Lampiran 12. Analisis *Oneway Annova* Kadar Protein Susu Jagung Manis Substitusi Kecambah Kacang Tolo**

**ONEWAY**

|  |
| --- |
| **Descriptives** |
| PROTEIN  |
|  | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | Minimum |
| Lower Bound | Upper Bound |
| P0 | 2 | 4.3450 | .38891 | .27500 | .8508 | 7.8392 | 4.07 |
| P1 | 2 | 6.7450 | .38891 | .27500 | 3.2508 | 10.2392 | 6.47 |
| P2 | 2 | 6.6200 | .25456 | .18000 | 4.3329 | 8.9071 | 6.44 |
| P3 | 2 | 6.5350 | .44548 | .31500 | 2.5325 | 10.5375 | 6.22 |
| Total | 8 | 6.0613 | 1.09968 | .38880 | 5.1419 | 6.9806 | 4.07 |

|  |
| --- |
| **ANOVA** |
|  | Sum of Squares | df | Mean Square | F | Sig. |
| Between Groups | 7.899 | 3 | 2.633 | 18.617 | .008 |
| Within Groups | .566 | 4 | .141 |  |  |
| Total | 8.465 | 7 |  |  |  |

**Post Hoc Tests**

|  |
| --- |
| **PROTEIN** |
| Duncana  |
| PERLAKUAN | N | Subset for alpha = 0.05 |
| 1 | 2 |
| P0 | 2 | 4.3450 |  |
| P3 | 2 |  | 6.5350 |
| P2 | 2 |  | 6.6200 |
| P1 | 2 |  | 6.7450 |
| Sig. |  | 1.000 | .610 |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 2.000. |

**Lampiran 13. Analisis *Oneway Annova* Kadar Lemak Susu Jagung Manis Substitusi Kecambah Kacang Tolo**

**ONEWAY**

|  |
| --- |
| **Descriptives** |
| LEMAK  |
|  | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | Minimum |
| Lower Bound | Upper Bound |
| P0 | 2 | .2150 | .12021 | .08500 | -.8650 | 1.2950 | .13 |
| P1 | 2 | 2.1300 | .29698 | .21000 | -.5383 | 4.7983 | 1.92 |
| P2 | 2 | 2.2300 | .22627 | .16000 | .1970 | 4.2630 | 2.07 |
| P3 | 2 | 2.4350 | .10607 | .07500 | 1.4820 | 3.3880 | 2.36 |
| Total | 8 | 1.7525 | .96847 | .34241 | .9428 | 2.5622 | .13 |
| **ANOVA** |
|  | Sum of Squares | df | Mean Square | F | Sig. |
| Between Groups | 6.400 | 3 | 2.133 | 51.689 | .001 |
| Within Groups | .165 | 4 | .041 |  |  |
| Total | 6.566 | 7 |  |  |  |

**Post Hoc Tests**

|  |
| --- |
| **LEMAK** |
| Duncana  |
| PERLAKUAN | N | Subset for alpha = 0.05 |
| 1 | 2 |
| P0 | 2 | .2150 |  |
| P1 | 2 |  | 2.1300 |
| P2 | 2 |  | 2.2300 |
| P3 | 2 |  | 2.4350 |
| Sig. |  | 1.000 | .214 |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 2.000. |

**Lampiran 14. Analisis *Oneway Annova* Viskositas Susu Jagung Manis Substitusi Kecambah Kacang Tolo**

**Oneway**

|  |
| --- |
| **Descriptives** |
| VISKOSITAS  |
|  | N | Mean | Std. Deviation | Std. Error | 95% Confidence Interval for Mean | Minimum |
| Lower Bound | Upper Bound |
| P0 | 2 | 4.4000 | .14142 | .10000 | 3.1294 | 5.6706 | 4.30 |
| P1 | 2 | 5.8000 | .00000 | .00000 | 5.8000 | 5.8000 | 5.80 |
| P2 | 2 | 7.2500 | .35355 | .25000 | 4.0734 | 10.4266 | 7.00 |
| P3 | 2 | 13.7500 | .35355 | .25000 | 10.5734 | 16.9266 | 13.50 |
| Total | 8 | 7.8000 | 3.83219 | 1.35489 | 4.5962 | 11.0038 | 4.30 |

|  |
| --- |
| **ANOVA** |
|  | Sum of Squares | df | Mean Square | F | Sig. |
| Between Groups | 102.530 | 3 | 34.177 | 506.321 | .000 |
| Within Groups | .270 | 4 | .068 |  |  |
| Total | 102.800 | 7 |  |  |  |

**Post Hoc Tests**

|  |
| --- |
| **VISKOSITAS** |
| Duncana  |
| PERLAKUAN | N | Subset for alpha = 0.05 |
| 1 | 2 | 3 | 4 |
| P0 | 2 | 4.4000 |  |  |  |
| P1 | 2 |  | 5.8000 |  |  |
| P2 | 2 |  |  | 7.2500 |  |
| P3 | 2 |  |  |  | 13.7500 |
| Sig. |  | 1.000 | 1.000 | 1.000 | 1.000 |
| Means for groups in homogeneous subsets are displayed. |
| a. Uses Harmonic Mean Sample Size = 2.000. |

**Lampiran 15. Analisis *Kruskal Wallis* Warna Susu Jagung Manis Substitusi Kecambah Kacang Tolo**

|  |
| --- |
| **Descriptive Statistics** |
|  | N | Mean | Std. Deviation | Minimum | Maximum |
| MUTU WARNA SUSU | 100 | 2.7300 | .72272 | 1.00 | 4.00 |
| PERLAKUAN | 100 | 2.50 | 1.124 | 1 | 4 |

**Kruskal-Wallis Test**

|  |
| --- |
| **Ranks** |
|  | PERLAKUAN | N | Mean Rank |
| MUTU WARNA SUSU | P0 | 25 | 60.48 |
| P1 | 25 | 54.14 |
| P2 | 25 | 45.80 |
| P3 | 25 | 41.58 |
| Total | 100 |  |

|  |
| --- |
| **Test Statisticsa,b** |
|  | MUTU WARNA SUSU |
| Chi-Square | 7.774 |
| df | 3 |
| Asymp. Sig. | .051 |

|  |
| --- |
| a. Kruskal Wallis Test |
| b. Grouping Variable: PERLAKUAN |

**Lampiran 16. Analisis *Kruskal Wallis* Aroma Susu Jagung Manis Substitusi Kecambah Kacang Tolo**

|  |
| --- |
| **Descriptive Statistics** |
|  | N | Mean | Std. Deviation | Minimum | Maximum |
| MUTU AROMA SUSU | 100 | 2.5400 | .78393 | 1.00 | 4.00 |
| PERLAKUAN | 100 | 2.50 | 1.124 | 1 | 4 |

**Kruskal-Wallis Test**

|  |
| --- |
| **Ranks** |
|  | PERLAKUAN | N | Mean Rank |
| MUTU AROMA SUSU | P0 | 25 | 59.24 |
| P1 | 25 | 53.96 |
| P2 | 25 | 48.68 |
| P3 | 25 | 40.12 |
| Total | 100 |  |

|  |
| --- |
| **Test Statisticsa,b** |
|  | MUTU AROMA SUSU |
| Chi-Square | 6.891 |
| df | 3 |
| Asymp. Sig. | .075 |

|  |
| --- |
| 1. Kruskal Wallis Test
 |
|  |

**Lampiran 17. Analisis *Kruskal Wallis* Rasa Susu Jagung Manis Substitusi Kecambah Kacang Tolo**

|  |
| --- |
| **Descriptive Statistics** |
|  | N | Mean | Std. Deviation | Minimum | Maximum |
| RASA | 100 | 2.4800 | .94794 | 1.00 | 4.00 |
| PERLAKUAN | 100 | 2.50 | 1.124 | 1 | 4 |

**Kruskal-Wallis Test**

|  |
| --- |
| **Ranks** |
|  | PERLAKUAN | N | Mean Rank |
| RASA | P0 | 25 | 61.70 |
| P1 | 25 | 53.62 |
| P2 | 25 | 55.62 |
| P3 | 25 | 31.06 |
| Total | 100 |  |

|  |
| --- |
| **Test Statisticsa,b** |
|  | RASA |
| Chi-Square | 17.971 |
| df | 3 |
| Asymp. Sig. | .000 |

|  |
| --- |
| a. Kruskal Wallis Test |

**P0 DENGAN P1**

**Mann-Whitney Test**

|  |
| --- |
| **Ranks** |
|  | PERLAKUAN | N | Mean Rank | Sum of Ranks |
| RASA | P0 | 25 | 27.44 | 686.00 |
| P1 | 25 | 23.56 | 589.00 |
| Total | 50 |  |  |

|  |
| --- |
| **Test Statisticsa** |
|  | RASA |
| Mann-Whitney U | 264.000 |
| Wilcoxon W | 589.000 |
| Z | -.998 |
| Asymp. Sig. (2-tailed) | .318 |

**P0 DENGAN P2**

**Mann-Whitney Test**

|  |
| --- |
| **Ranks** |
|  | PERLAKUAN | N | Mean Rank | Sum of Ranks |
| RASA | P0 | 25 | 27.34 | 683.50 |
| P2 | 25 | 23.66 | 591.50 |
| Total | 50 |  |  |

|  |
| --- |
| **Test Statisticsa** |
|  | RASA |
| Mann-Whitney U | 266.500 |
| Wilcoxon W | 591.500 |
| Z | -.987 |
| Asymp. Sig. (2-tailed) | .324 |

**P0 DENGAN P3**

**Mann-Whitney Test**

|  |
| --- |
| **Ranks** |
|  | PERLAKUAN | N | Mean Rank | Sum of Ranks |
| RASA | P0 | 25 | 32.92 | 823.00 |
| P3 | 25 | 18.08 | 452.00 |
| Total | 50 |  |  |

|  |
| --- |
| **Test Statisticsa** |
|  | RASA |
| Mann-Whitney U | 127.000 |
| Wilcoxon W | 452.000 |
| Z | -3.810 |
| Asymp. Sig. (2-tailed) | .000 |

**P1 DENGAN P2**

**Mann-Whitney Test**

|  |
| --- |
| **Ranks** |
|  | PERLAKUAN | N | Mean Rank | Sum of Ranks |
| RASA | P1 | 25 | 25.04 | 626.00 |
| P2 | 25 | 25.96 | 649.00 |
| Total | 50 |  |  |

|  |
| --- |
| **Test Statisticsa** |
|  | RASA |
| Mann-Whitney U | 301.000 |
| Wilcoxon W | 626.000 |
| Z | -.239 |
| Asymp. Sig. (2-tailed) | .811 |

**P1 DENGAN P3**

**Mann-Whitney Test**

|  |
| --- |
| **Ranks** |
|  | PERLAKUAN | N | Mean Rank | Sum of Ranks |
| RASA | P1 | 25 | 31.02 | 775.50 |
| P3 | 25 | 19.98 | 499.50 |
| Total | 50 |  |  |

|  |
| --- |
| **Test Statisticsa** |
|  | RASA |
| Mann-Whitney U | 174.500 |
| Wilcoxon W | 499.500 |
| Z | -2.814 |
| Asymp. Sig. (2-tailed) | .005 |

**P2 DENGAN P3**

**Mann-Whitney Test**

|  |
| --- |
| **Ranks** |
|  | PERLAKUAN | N | Mean Rank | Sum of Ranks |
| RASA | P2 | 25 | 32.00 | 800.00 |
| P3 | 25 | 19.00 | 475.00 |
| Total | 50 |  |  |

|  |
| --- |
| **Test Statisticsa** |
|  | RASA |
| Mann-Whitney U | 150.000 |
| Wilcoxon W | 475.000 |
| Z | -3.366 |
| Asymp. Sig. (2-tailed) | .001 |