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LAMPIRAN

Lampiran 1. Warna L*a*b*

| The GLM Procedure | | | | | | | |
|---|--------------------------|-------------------|-------------|-----------|--------|--|--|
| Dependent Variable: L | | | | | | | |
| Source | DF | Squares | Mean Square | F Value | Pr > F | | |
| Model | 7 | 29.50635000 | 4.21519286 | 3.08 | .0524 | | |
| Error | 10 | 13.67010000 | 1.36701000 | | | | |
| Corrected Total | 17 | 43.17645000 | | | | | |
| | R-Square | Coeff Var | Root MSE | L Mean | | | |
| | 0.683390 | 1.907069 | 1.169192 | 61.30833 | | | |
| Source | DF | Type I SS | Mean Square | F Value | Pr > F | | |
| KELOMPOK | 2 | 1.24843333 | 0.62421667 | 0.46 | 0.6460 | | |
| FORMULA | 5 | 28.25791667 | 5.65158333 | 4.13 | 0.0269 | | |
| Source | DF | Type III SS | Mean Square | F Value | Pr > F | | |
| KELOMPOK | 2 | 1.24843333 | 0.62421667 | 0.46 | 0.6460 | | |
| FORMULA | 5 | 28.25791667 | 5.65158333 | 4.13 | 0.0269 | | |
| Duncan's Multiple Range Test for L | | | | | | | |
| | Alpha | 0.05 | | | | | |
| | Error Degrees of Freedom | 10 | | | | | |
| | Error Mean Square | 1.36701 | | | | | |
| Number of Means | 2 | 3 | 4 | 5 | 6 | | |
| Critical Range | 2.127 | 2.223 | 2.279 | 2.315 | 2.339 | | |
| Means with the same letter are not significantly different. | | | | | | | |
| Duncan Grouping | | Mean | N | FORMULA | | | |
| A | | 63.3067 | 3 | W5 | | | |
| A | | | | | | | |
| B | A | 61.9533 | 3 | W4 | | | |
| B | A | | | | | | |
| B | A | 61.6167 | 3 | W3 | | | |
| B | A | | | | | | |
| B | A | 61.4767 | 3 | W2 | | | |
| B | | | | | | | |
| B | | 59.8467 | 3 | W0 | | | |
| B | | | | | | | |
| B | | 59.6500 | 3 | W1 | | | |
| The GLM Procedure | | | | | | | |
| Class Level Information | | | | | | | |
| Class | Levels | Values | | | | | |
| FORMULA | 6 | W0 W1 W2 W3 W4 W5 | | | | | |
| KELOMPOK | 3 | 1 2 3 | | | | | |
| Number of observations | 18 | | | | | | |
| The GLM Procedure | | | | | | | |
| Dependent Variable: a | | | | | | | |
| Source | DF | Squares | Mean Square | F Value | Pr > F | | |
| Model | 7 | 0.83040539 | 0.11862934 | 6.77 | 0.0038 | | |
| Error | 10 | 0.17521556 | 0.01752156 | | | | |
| Corrected Total | 17 | 1.00562094 | | | | | |
| | R-Square | Coeff Var | Root MSE | a Mean | | | |
| | 0.825764 | -6.276553 | 0.132369 | -2.108944 | | | |
| Source | DF | Type I SS | Mean Square | F Value | Pr > F | | |
| KELOMPOK | 2 | 0.10539511 | 0.05269756 | 3.01 | 0.0949 | | |
| FORMULA | 5 | 0.72501028 | 0.14500206 | 8.28 | 0.0025 | | |
| Source | DF | Type III SS | Mean Square | F Value | Pr > F | | |
| KELOMPOK | 2 | 0.10539511 | 0.05269756 | 3.01 | 0.0949 | | |
| FORMULA | 5 | 0.72501028 | 0.14500206 | 8.28 | 0.0025 | | |

The GLM Procedure
Duncan's Multiple Range Test for a
Alpha 0.05
Error Degrees of Freedom 10
Error Mean Square 0.017522
Number of Means 2 3 4 5 6
Critical Range .2408 .2516 .2580 .2621 .2648
Means with the same letter are not significantly different.

| Duncan Grouping | Mean | N | FORMULA |
|-----------------|---------|---|---------|
| A | -1.8000 | 3 | W5 |
| A | | | |
| B A | -1.8967 | 3 | W4 |
| B | | | |
| B C | -2.0883 | 3 | W3 |
| C | | | |
| C | -2.2670 | 3 | W0 |
| C | | | |
| C | -2.2683 | 3 | W2 |
| C | | | |
| C | -2.3333 | 3 | W1 |

The GLM Procedure
Class Level Information
Class Levels Values
FORMULA 6 W0 W1 W2 W3 W4 W5
KELOMPOK 3 1 2 3
Number of observations 18

| The GLM Procedure | | | | | |
|-----------------------|----|------------|-------------|---------|--------|
| Dependent Variable: b | | | | | |
| Source | DF | Squares | Mean Square | F Value | Pr > F |
| Model | 7 | 0.22410556 | 0.03201508 | 0.31 | 0.9312 |
| Error | 10 | 1.01952222 | 0.10195222 | | |
| Corrected Total | 17 | 1.24362778 | | | |

| | R-Square | Coeff Var | Root MSE | b Mean |
|----------|----------|-------------|-------------|----------|
| | 0.180203 | 2.899063 | 0.319300 | 11.01389 |
| Source | DF | Type I SS | Mean Square | F Value |
| KELOMPOK | 2 | 0.10154444 | 0.05077222 | 0.50 |
| FORMULA | 5 | 0.12256111 | 0.02451222 | 0.24 |
| Source | DF | Type III SS | Mean Square | F Value |
| KELOMPOK | 2 | 0.10154444 | 0.05077222 | 0.50 |
| FORMULA | 5 | 0.12256111 | 0.02451222 | 0.24 |

| The GLM Procedure | | | | | |
|---|----------|-------|---------|-------|-------|
| Duncan's Multiple Range Test for b | | | | | |
| Alpha | 0.05 | | | | |
| Error Degrees of Freedom | 10 | | | | |
| Error Mean Square | 0.101952 | | | | |
| Number of Means | 2 | 3 | 4 | 5 | 6 |
| Critical Range | .5809 | .6070 | .6224 | .6323 | .6388 |
| Means with the same letter are not significantly different. | | | | | |
| Duncan Grouping | Mean | N | FORMULA | | |
| A | 11.1267 | 3 | W1 | | |
| A | | | | | |
| A | 11.0667 | 3 | W0 | | |
| A | | | | | |
| A | 11.0367 | 3 | W2 | | |
| A | | | | | |
| A | 11.0133 | 3 | W3 | | |
| A | | | | | |
| A | 10.9800 | 3 | W4 | | |
| A | | | | | |
| A | 10.8600 | 3 | W5 | | |

Lampiran 2. Uji Organoleptik

| The GLM Procedure Class Level Information | | | | | | |
|---|-------------------|--|-------------|----------|---------|--|
| Class | Levels | Values | | | | |
| FORMULA | 6 | W0 W1 W2 W3 W4 W5 | | | | |
| KELOMPOK | 30 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | | | | |
| | 2425 | 26 27 28 29 30 | | | | |
| Number of observations | 180 | | | | | |
| The GLM Procedure | | | | | | |
| Dependent Variable: W | | | | | | |
| Source | DF | Squares | Mean Square | F Value | Pr > F | |
| Model | 34 | 32.2666667 | 0.9490196 | 1.65 | 0.0230 | |
| Error | 45 | 83.5333333 | 0.5760920 | | | |
| Corrected Total | 179 | 115.8000000 | | | | |
| Sum of | | | | | | |
| R-Square | Coeff Var | Root MSE | W Mean | | | |
| 0.278641 | 19.13464 | 0.759007 | 3.966667 | | | |
| Source | DF | Type I SS | Mean Square | F Value | Pr > F | |
| KELOMPOK | 29 | 20.8000000 | 0.71724138 | 1.25 | 0.2001 | |
| FORMULA | 5 | 11.46666667 | 2.29333333 | 3.98 | 0.0021 | |
| Source | DF | Type III SS | Mean Square | F Value | Pr > F | |
| KELOMPOK | 29 | 20.8000000 | 0.71724138 | 1.25 | 0.2001 | |
| FORMULA | 5 | 11.46666667 | 2.29333333 | 3.98 | 0.0021 | |
| The GLM Procedure | | | | | | |
| Duncan's Multiple Range Test for W | | | | | | |
| Alpha | | | | 0.05 | | |
| Error Degrees of Freedom | | | | 145 | | |
| Error Mean Square | | | | 0.576092 | | |
| Number of Means | 2 | 3 | 4 | 5 | 6 | |
| Critical Range | .3873 | .4077 | .4212 | .4312 | .4389 | |
| Means with the same letter are not significantly different. | | | | | | |
| Duncan Grouping | | Mean | N | | FORMULA | |
| A | | 4.4000 | 30 | | W5 | |
| A | | | | | | |
| B | A | 4.1667 | 30 | | W4 | |
| B | A | | | | | |
| B | C | 4.0000 | 30 | | W3 | |
| B | C | | | | | |
| B | C | 3.8000 | 30 | | W2 | |
| C | | | | | | |
| C | | 3.7333 | 30 | | W1 | |
| C | | | | | | |
| C | | 3.7000 | 30 | | W0 | |
| The GLM Procedure | | | | | | |
| Class Level Information | | | | | | |
| Class | Levels | Values | | | | |
| FORMULA | 6 | W0 W1 W2 W3 W4 W5 | | | | |
| KELOMPOK | 30 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 | | | | |
| | 25 26 27 28 29 30 | | | | | |
| Number of observations | 180 | | | | | |
| The GLM Procedure | | | | | | |
| Dependent Variable: K | | | | | | |
| Source | DF | Squares | Mean Square | F Value | Pr > F | |
| Model | 34 | 46.855556 | 1.3781046 | 2.58 | <.0001 | |
| Error | 145 | 77.472222 | 0.5342912 | | | |
| Corrected Total | 179 | 124.3277778 | | | | |

| | R-Square | Coeff Var | Root MSE | K Mean |
|----------|----------|-------------|-------------|----------------|
| Source | 0.376871 | 17.99882 | 0.730952 | 4.061111 |
| KELOMPOK | DF | Type I SS | Mean Square | F Value Pr > F |
| | 29 | 35.49444444 | 1.22394636 | 2.29 0.0007 |
| FORMULA | 5 | 11.36111111 | 2.27222222 | 4.25 0.0012 |
| Source | DF | Type III SS | Mean Square | F Value Pr > F |
| KELOMPOK | 29 | 35.49444444 | 1.22394636 | 2.29 0.0007 |
| FORMULA | 5 | 11.36111111 | 2.27222222 | 4.25 0.0012 |

The GLM Procedure
Duncan's Multiple Range Test for K
Alpha 0.05
Error Degrees of Freedom 145
Error Mean Square 0.534291
Number of Means 2 3 4 5 6
Critical Range .3730 .3926 .4057 .4153 .4227
Means with the same letter are not significantly different.

| Duncan Grouping | Mean | N | FORMULA |
|-----------------|--------|----|---------|
| A | 4.4333 | 30 | W5 |
| A | 4.3000 | 30 | W4 |
| A | 4.0667 | 30 | W3 |
| B | 4.0333 | 30 | W1 |
| B | 3.8333 | 30 | W2 |
| B | 3.7000 | 30 | W0 |

The GLM Procedure
Class Level Information
Class Levels Values
FORMULA 6 W0 W1 W2 W3 W4 W5
KELOMPOK 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30
Number of observations 180

| Source | DF | Squares | Mean Square | F Value | Pr > F |
|-----------------|-----|-------------|-------------|---------|--------|
| Model | 34 | 33.9888889 | 0.9996732 | 1.48 | 0.0577 |
| Error | 145 | 97.6722222 | 0.6736015 | | |
| Corrected Total | 179 | 131.6611111 | | | |

| | R-Square | Coeff Var | Root MSE | R Mean |
|----------|----------|-------------|-------------|----------------|
| Source | 0.258154 | 19.67135 | 0.820732 | 4.172222 |
| KELOMPOK | DF | Type I SS | Mean Square | F Value Pr > F |
| | 29 | 33.49444444 | 1.15498084 | 1.71 0.0206 |
| FORMULA | 5 | 0.49444444 | 0.09888889 | 0.15 0.9807 |
| Source | DF | Type III SS | Mean Square | F Value Pr > F |
| KELOMPOK | 29 | 33.49444444 | 1.15498084 | 1.71 0.0206 |
| FORMULA | 5 | 0.49444444 | 0.09888889 | 0.15 0.9807 |

The GLM Procedure
Duncan's Multiple Range Test for R
Alpha 0.05
Error Degrees of Freedom 145
Error Mean Square 0.673602
Number of Means 2 3 4 5 6
Critical Range .4188 .4408 .4555 .4663 .4746
Means with the same letter are not significantly different.

| Duncan Grouping | Mean | N | FORMULA |
|-----------------|--------|----|---------|
| A | 4.2333 | 30 | W2 |
| A | 4.2333 | 30 | W3 |
| A | 4.2000 | 30 | W5 |
| A | 4.1333 | 30 | W4 |
| A | 4.1333 | 30 | W1 |
| A | 4.1000 | 30 | W0 |

The GLM Procedure
Class Level Information
Class Levels Values
FORMULA 6 W0 W1 W2 W3 W4 W5
KELOMPOK 30 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30
Number of observations 180

| Source | DF | Sum of | | | |
|-----------------|-----|-------------|-------------|---------|--------|
| | | Squares | Mean Square | F Value | Pr > F |
| Model | 34 | 31.0888889 | 0.9143791 | 1.65 | 0.0232 |
| Error | 145 | 80.5555556 | 0.5555556 | | |
| Corrected Total | 179 | 111.6444444 | | | |

| Source | DF | R-Square | Coeff Var | Root MSE | AD Mean |
|----------|----|-------------|-------------|----------|----------|
| | | 0.278463 | 18.42913 | 0.745356 | 4.044444 |
| KELOMPOK | 29 | 30.9777778 | 1.06819923 | 1.92 | 0.0064 |
| FORMULA | 5 | 0.11111111 | 0.02222222 | 0.04 | 0.9991 |
| Source | DF | Type III SS | Mean Square | F Value | Pr > F |
| KELOMPOK | 29 | 30.9777778 | 1.06819923 | 1.92 | 0.0064 |
| FORMULA | 5 | 0.11111111 | 0.02222222 | 0.04 | 0.9991 |

The GLM Procedure
Duncan's Multiple Range Test for AD
Alpha 0.05
Error Degrees of Freedom 145
Error Mean Square 0.555556

| Number of Means | 2 | 3 | 4 | 5 | 6 |
|---|--------|-------|-------|---------|-------|
| Critical Range | .3804 | .4004 | .4137 | .4234 | .4310 |
| Means with the same letter are not significantly different. | | | | | |
| Duncan Grouping | Mean | | N | FORMULA | |
| A | 4.0667 | | 30 | W2 | |
| A | 4.0667 | | 30 | W5 | |
| A | 4.0667 | | 30 | W3 | |
| A | 4.0333 | | 30 | W0 | |
| A | 4.0333 | | 30 | W1 | |
| A | 4.0000 | | 30 | W4 | |

The GLM Procedure
 Class Level Information

| Class | Levels | Values |
|------------------------|--------|---|
| FORMULA | 6 | W0 W1 W2 W3 W4 W5 |
| KELOMPOK | 30 24 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 25 26 27 28 29 30 |
| Number of observations | | 180 |

The GLM Procedure

Dependent Variable: AW

| Source | DF | Sum of | | | |
|-----------------|-----|-------------|-------------|---------|--------|
| | | Squares | Mean Square | F Value | Pr > F |
| Model | 34 | 56.8222222 | 1.6712418 | 2.45 | 0.0001 |
| Error | 145 | 98.9555556 | 0.6824521 | | |
| Corrected Total | 179 | 155.7777778 | | | |

| | R-Square | Coeff Var | Root MSE | AW Mean |
|----------|----------|-------------|-------------|----------|
| | 0.364765 | 28.59600 | 0.826107 | 2.888889 |
| Source | DF | Type I SS | Mean Square | F Value |
| KELOMPOK | 29 | 24.4444444 | 0.84291188 | 1.24 |
| FORMULA | 5 | 32.3777778 | 6.47555556 | 9.49 |
| Source | DF | Type III SS | Mean Square | F Value |
| KELOMPOK | 29 | 24.4444444 | 0.84291188 | 1.24 |
| FORMULA | 5 | 32.3777778 | 6.47555556 | 9.49 |

The GLM Procedure
 Duncan's Multiple Range Test for AW

| Alpha | 0.05 |
|--------------------------|----------|
| Error Degrees of Freedom | 145 |
| Error Mean Square | 0.682452 |

| Number of Means | 2 | 3 | 4 | 5 | 6 |
|-----------------|-------|-------|-------|-------|-------|
| Critical Range | .4216 | .4437 | .4585 | .4693 | .4777 |

Means with the same letter are not significantly different.

| Duncan Grouping | Mean | N | FORMULA |
|-----------------|--------|----|---------|
| A | 3.4000 | 30 | W5 |
| A | 3.3000 | 30 | W4 |
| A | 3.1333 | 30 | W3 |
| B | 2.8000 | 30 | W2 |
| C | 2.3667 | 30 | W1 |
| C | 2.3333 | 30 | W0 |

The GLM Procedure
 Class Level Information

| Class | Levels | Values |
|------------------------|--------|---|
| FORMULA | 6 | W0 W1 W2 W3 W4 W5 |
| KELOMPOK | 30 25 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 28 29 30 |
| Number of observations | | 180 |

The GLM Procedure

Dependent Variable: KS

| Source | DF | Sum of | | | |
|-----------------|-----|-------------|-------------|---------|--------|
| | | Squares | Mean Square | F Value | Pr > F |
| Model | 34 | 53.1222222 | 1.5624183 | 3.12 | <.0001 |
| Error | 145 | 72.5388889 | 0.5002682 | | |
| Corrected Total | 179 | 125.6611111 | | | |

| | R-Square | Coeff Var | Root MSE | KS Mean |
|----------|----------|-------------|-------------|----------|
| | 0.422742 | 16.34318 | 0.707296 | 4.327778 |
| Source | DF | Type I SS | Mean Square | F Value |
| KELOMPOK | 29 | 35.8277778 | 1.23544061 | 2.47 |
| FORMULA | 5 | 17.2944444 | 3.4588889 | 6.91 |
| Source | DF | Type III SS | Mean Square | F Value |
| KELOMPOK | 29 | 35.8277778 | 1.23544061 | 2.47 |
| FORMULA | 5 | 17.2944444 | 3.4588889 | 6.91 |

| The GLM Procedure | | | | | |
|---|----------|-------|---------|-------|-------|
| Duncan's Multiple Range Test for KS | | | | | |
| Alpha | 0.05 | | | | |
| Error Degrees of Freedom | 145 | | | | |
| Error Mean Square | 0.500268 | | | | |
| Number of Means | 2 | 3 | 4 | 5 | 6 |
| Critical Range | .3609 | .3799 | .3925 | .4018 | .4090 |
| Means with the same letter are not significantly different. | | | | | |
| Duncan Grouping | Mean | N | FORMULA | | |
| A | 4.8667 | 30 | W5 | | |
| B | 4.5000 | 30 | W4 | | |
| B | | | | | |
| C B | 4.4333 | 30 | W3 | | |
| C B | | | | | |
| C B D | 4.1333 | 30 | W2 | | |
| C D | | | | | |
| C D | 4.1000 | 30 | W1 | | |
| C D | | | | | |
| D | 3.9333 | 30 | W0 | | |

Lampiran 3. Form pengujian Organoleptik

Form Uji Mutu Sensori Bakso

Nama :
 Jenis Kelamin : Laki-Laki / Perempuan
 Umur :
 Hari/Tanggal :

Instruksi: Berilah skor penilaian anda terhadap atribut yang diminta untuk setiap sampel

Skor Warna

- 1 : Putih sangat tidak cerah
- 2 : Putih tidak cerah
- 3 : Putih agak cerah
- 4 : Putih cerah
- 5 : Sangat sangat cerah
- 6 : Putih amat sangat cerah

Skor Aroma Khas Daging

- 1 : Sangat tidak beraroma daging
- 2 : Tidak beraroma daging
- 3 : Agak beraroma daging
- 4 : Beraroma daging
- 5 : Sangat beraroma daging
- 6 : Sangat amat beraroma daging

Skor Aroma Whey

- 1 : Sangat tidak beraroma whey
- 2 : Tidak beraroma whey
- 3 : Agak beraroma whey
- 4 : Beraroma whey
- 5 : Sangat beraroma whey
- 6 : Sangat amat beraroma whey

Skor Kekenyalan

- 1 : Sangat tidak kenyal
- 2 : Tidak kenyal
- 3 : Agak kenyal
- 4 : Kenyal
- 5 : Sangat kenyal
- 6 : Sangat amat kenyal

Skor Rasa

- 1 : Sangat tidak terasa daging
- 2 : Tidak terasa daging
- 3 : Agak terasa daging
- 4 : Terasa daging
- 5 : Sangat terasa daging
- 6 : Sangat amat terasa daging

Skor Kesukaan

- 1 : Sangat tidak suka
- 2 : Tidak suka
- 3 : Agak Suka
- 4 : Suka
- 5 : Sangat suka
- 6 : Sangat amat suka

| Atribut Sensori | Kode Sampel | | | | |
|-----------------|-------------|-----|-----|-----|-----|
| | 369 | 271 | 632 | 198 | 412 |
| Warna | | | | | |
| Aroma Daging | | | | | |
| Aroma Whey | | | | | |
| Kekenyalan | | | | | |
| Rasa | | | | | |
| Kesukaan | | | | | |

Saran:

Lampiran 4. Dokumentasi Penelitian



RIWAYAT HIDUP



Nurjannah, lahir di Jeneponto pada tanggal 03 Maret 2000 sebagai anak ke-3 dari empat orang bersaudara dari pasangan Haris dan Alm. Hapsa. Jenjang pendidikan formal yaitu SD Inpres No.198 Ujung loe lulus pada tahun 2012 kemudian lanjut ke SMPN 5 Binamu lulus pada tahun 2015 dan kemudian melanjutkan sekolah ke SMAN 1 Jeneponto lulus pada tahun 2018. Setelah menyelesaikan tingkat sekolah menengah atas, penulis diterima di Perguruan Tinggi Negeri (PTN) melalui jalur undangan (SNMPTN) Fakultas Peternakan Universitas Hasanuddin, Makassar. Selama menjadi mahasiswa penulis pernah menjadi pengurus HIMATEHATE_UH dan juga pernah menjadi pengurus di organda yaitu HPMT.