LAMPIRAN – LAMPIRAN

Lampiran 1. Prosedur Penentuan Kadar Pati

PENENTUAN KADAR PATI
(Metode PT. ISM. Bogasari Flour Mills)

1. 2,5 gram sampel yang sudah halus ditimbang dan dimasukkan ke dalam labu ukur 100ml.
2. 2,5 ml HCl 0,31 N ditambahkan melalui dinding labu kemudian dikocok dengan baik.
3. Labu ukur tersebut dimasukkan ke dalam air mendidih (water bath ± 100°C) kemudian dikocok secara perlahan-lahan selama 3 menit pertama, setelah itu dibiarkan dalam air mendidih selama 12 menit (total 15 menit).
4. Setelah 12 menit labu segera diangkat dan ditambahkan 30 ml aquades, didinginkan dengan segera.
5. Setealh dingin ditambahkan 5 ml larutan Carrez no. 1 dan dikocok selama 1 menit.
6. Selanjutnya ditambahkan 5 ml larutan Carrez no. 2 dan dikocok kembali selama 1 menit.
7. Aquades ditambahkan ke dalam labu hingga mencapai volume 100 ml, kemudian dikocok dengan kuat agar homogen dan disaring dengan kertas saring Whatman no. 42.
8. Hasil saringan dimasukkan ke dalam tabung polarimeter dan dilihat dalam alar polarimeter.

Perhitungan : $\%\ \text{pati} = \frac{2000}{D} \times a$

Dimana : 2000 = konstanta

a = sudut perputaran bidang polarisasi
(angka yang ditunjukkan oleh polarimeter.

D = koefisien, untuk wheat dan hasil olahannya = 182,7

Lampiran 2. Kuesioner Uji Organoleptik

KUESIONER MIE

Tanggal : .....

Di hadapan Saudara disajikan 6 macam mie. Saudara diminta untuk memberikan penilaian terhadap **tekstur** dan **kenampakan** mie tersebut dibandingkan dengan standart yang ada. Tuliskan penilaian Anda pada kolom yang disediakan (berupa angka).

Kode Sampel	Tekstur	Kenampakan
821		
243		
365		
157		
732		
679		

Penilaian :

1. Lebih Baik dari standart
2. Baik (Sama dengan standart)
3. Kurang Baik
4. Tidak Baik

Komentar Anda :

.....
.....
.....
.....

1. Apakah Anda penggemar mie ? ☐ Ya ☐ Tidak
2. Jenis mie yang biasa dikonsumsi ☐ Instan ☐ Basah
3. Jenis kelamin ..... ☐ Perempuan ☐ Laki-laki
4. Umur : ..... tahun

TERIMA KASIH.

Lampiran 3. Tabel Ukuran Partikel Tepung

a. Tepung Terigu

Mikron	Tepung	
	Segitiga Biru (%)	Cakra Kembar (%)
224	---	---
180	---	---
145	8,7	7,9
132	11,6	11,7
106	14,8	16,8
<106	64,4	63,1
Total	100,0	100,0

b. Tepung Ubikayu

Mikron	Tepung		
	Tapioka (%)	Gaplek (%)	Gatot (%)
425	---	---	---
300	---	3,7	---
224	---	13,5	24,6
180	---	4,8	14,9
145	---	5,1	14,2
132	1,31	3,4	7,9
<132	95,5	69,3	38,2
Total	100,0	100,0	100,0

Lampiran 4. Anova kadar air tepung

Variable K_AIR
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	7,1690	1,7923	13,4709	,0005
Within Groups	10	1,3305	,1330		
Total	14	8,4995			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	12,2367	,3350	,1934	11,4044 TO 13,0689
Grp 2	3	12,8967	,0896	,0517	12,6740 TO 13,1193
Grp 3	3	13,8067	,2369	,1368	13,2181 TO 14,3952
Grp 4	3	11,7933	,2919	,1686	11,0681 TO 12,5186
Grp 5	3	13,0200	,6353	,3668	11,4418 TO 14,5982
Total	15	12,7507	,7792	,2012	12,3192 TO 13,1822

GROUP	MINIMUM	MAXIMUM
Grp 1	12,0000	12,6200
Grp 2	12,8400	13,0000
Grp 3	13,6600	14,0800
Grp 4	11,6100	12,1300
Grp 5	12,3200	13,5600
TOTAL	11,6100	14,0800

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
2,9301	4	10	,076

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,2579 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,15

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	Grp 4	Grp 1	Grp 2	Grp 5	Grp 3
11,7933	Grp 4					
12,2367	Grp 1					
12,8967	Grp 2	*				
13,0200	Grp 5	*	*			
13,8067	Grp 3	*	*	*	*	

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp 4	Grp 1
Mean	11,7933	12,2367

Subset 2

Group	Grp 1	Grp 2
Mean	12,2367	12,8967

Subset 3

Group	Grp 2	Grp 5
Mean	12,8967	13,0200

Subset 4

Group	Grp 3
Mean	13,8067

Lampiran 5. Anova kadar abu tepung

Variable K_ABU
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	4,6411	1,1603	805,2565	,0000
Within Groups	10	,0144	,0014		
Total	14	4,6555			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	,5747	,0444	,0256	,4643 TO ,6850
Grp 2	3	1,8307	,0100	,0058	1,8058 TO 1,8555
Grp 3	3	,2043	,0416	,0240	,1009 TO ,3078
Grp 4	3	,6100	,0552	,0319	,4728 TO ,7472
Grp 5	3	,5727	,0186	,0107	,5265 TO ,6188
Total	15	,7585	,5767	,1489	,4391 TO 1,0778

GROUP	MINIMUM	MAXIMUM
Grp 1	,5410	,6250
Grp 2	1,8230	1,8420
Grp 3	,1750	,2520
Grp 4	,5480	,6540
Grp 5	,5520	,5880
TOTAL	,1750	1,8420

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
2,8605	4	10	,081

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,0268 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,15

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	G G G G G r r r r r p p p p p 3 5 1 4 2
,2043	Grp 3	
,5727	Grp 5	*
,5747	Grp 1	*
,6100	Grp 4	*
1,8307	Grp 2	* * * *

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp 3
Mean	,2043

Subset 2

Group	Grp 5	Grp 1	Grp 4
Mean	,5727	,5747	,6100

Subset 3

Group	Grp 2
Mean	1,8307

Lampiran 6. Anova kadar lemak

Variable K_LEMAK
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	1,9793	,4948	355,8727	,0000
Within Groups	10	,0139	,0014		
Total	14	1,9932			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	,8587	,0492	,0284	,7364 TO ,9810
Grp 2	3	,1357	,0271	,0156	,0684 TO ,2029
Grp 3	3	,1000	,0314	,0181	,0219 TO ,1781
Grp 4	3	,4263	,0335	,0194	,3430 TO ,5097
Grp 5	3	,9827	,0410	,0237	,8808 TO 1,0846
Total	15	,5007	,3773	,0974	,2917 TO ,7096

GROUP	MINIMUM	MAXIMUM
Grp 1	,8020	,8910
Grp 2	,1140	,1660
Grp 3	,0640	,1220
Grp 4	,4050	,4650
Grp 5	,9510	1,0290
TOTAL	,0640	1,0290

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
,7656	4	10	,571

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,0264 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,15

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	Grp 3	Grp 2	Grp 4	Grp 1	Grp 5
,1000	Grp 3					
,1357	Grp 2					
,4263	Grp 4	*	*			
,8587	Grp 1	*	*	*		
,9827	Grp 5	*	*	*	*	

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp 3	Grp 2
Mean	,1000	,1357

Subset 2

Group	Grp 4
Mean	,4263

Subset 3

Group	Grp 1
Mean	,8587

Subset 4

Group	Grp 5
Mean	,9827

Lampiran 7. Anova kadar serat kasar

Variable SERAT_K
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	14,2698	3,5675	681,6783	,0000
Within Groups	10	,0523	,0052		
Total	14	14,3221			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	,3300	,0400	,0231	,2306 TO ,4294
Grp 2	3	2,1267	,0306	,0176	2,0508 TO 2,2026
Grp 3	3	,2100	,0781	,0451	,0160 TO ,4040
Grp 4	3	2,3667	,1274	,0736	2,0502 TO 2,6832
Grp 5	3	,2500	,0361	,0208	,1604 TO ,3396
Total	15	1,0567	1,0114	,2612	,4966 TO 1,6168

GROUP	MINIMUM	MAXIMUM
Grp 1	,2900	,3700
Grp 2	2,1000	2,1600
Grp 3	,1600	,3000
Grp 4	2,2200	2,4500
Grp 5	,2100	,2800
TOTAL	,1600	2,4500

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
4,4213	4	10	,026

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,0512 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,15

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	Grp 3	Grp 5	Grp 1	Grp 2	Grp 4
,2100	Grp 3					
,2500	Grp 5					
,3300	Grp 1					
2,1267	Grp 2	*	*	*		
2,3667	Grp 4	*	*	*	*	

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp 3	Grp 5	Grp 1
Mean	,2100	,2500	,3300

Subset 2

Group	Grp 2
Mean	2,1267

Subset 3

Group	Grp 4
Mean	2,3667

Lampiran 8. Anova kadar pati

Variable K_PATI
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	831,0785	207,7696	510,2063	,0000
Within Groups	10	4,0723	,4072		
Total	14	835,1508			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	70,9067	,5918	,3417	69,4365 TO 72,3768
Grp 2	3	77,4000	,1300	,0751	77,0771 TO 77,7229
Grp 3	3	89,5433	,2173	,1255	89,0034 TO 90,0832
Grp 4	3	80,5933	,1172	,0677	80,3022 TO 80,8845
Grp 5	3	68,6133	1,2681	,7321	65,4632 TO 71,7635
Total	15	77,4113	7,7236	1,9942	73,1342 TO 81,6885

GROUP	MINIMUM	MAXIMUM
Grp 1	70,2400	71,3700
Grp 2	77,2500	77,4800
Grp 3	89,3800	89,7900
Grp 4	80,4600	80,6800
Grp 5	67,1500	69,3900
TOTAL	67,1500	89,7900

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
8,6566	4	10	,003

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,4512 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,15

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	Grp 5	Grp 1	Grp 2	Grp 4	Grp 3
68,6133	Grp 5					
70,9067	Grp 1	*				
77,4000	Grp 2	*	*			
80,5933	Grp 4	*	*	*		
89,5433	Grp 3	*	*	*	*	

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp 5
Mean	68,6133

Subset 2

Group	Grp 1
Mean	70,9067

Subset 3

Group	Grp 2
Mean	77,4000

Subset 4

Group	Grp 4
Mean	80,5933

Subset 5

Group	Grp 3
Mean	89,5433

Lampiran 9. Anova kadar amilosa tepung

Variable K_AMILOS
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	119,4810	29,8703	324,4181	,0000
Within Groups	10	,9207	,0921		
Total	14	120,4018			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	25,7533	,3166	,1828	24,9669 TO 26,5398
Grp 2	3	25,9433	,2970	,1715	25,2054 TO 26,6812
Grp 3	3	32,0733	,4430	,2558	30,9729 TO 33,1738
Grp 4	3	24,7667	,2183	,1260	24,2245 TO 25,3088
Grp 5	3	24,2833	,1674	,0967	23,8674 TO 24,6993
Total	15	26,5640	2,9326	,7572	24,9400 TO 28,1880

GROUP	MINIMUM	MAXIMUM
Grp 1	25,3900	25,9700
Grp 2	25,6100	26,1800
Grp 3	31,5900	32,4600
Grp 4	24,5300	24,9600
Grp 5	24,0900	24,3800
TOTAL	24,0900	32,4600

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
1,0733	4	10	,419

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,2146 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,15

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	Grp 5	Grp 4	Grp 1	Grp 2	Grp 3
24,2833	Grp 5					
24,7667	Grp 4					
25,7533	Grp 1	*	*			
25,9433	Grp 2	*	*			
32,0733	Grp 3	*	*	*	*	

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp 5	Grp 4
Mean	24,2833	24,7667

Subset 2

Group	Grp 1	Grp 2
Mean	25,7533	25,9433

Subset 3

Group	Grp 3
Mean	32,0733

Lampiran 10. Anova kadar amilopektin tepung

Variable K_AMILOP
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	431,7661	107,9415	171,1293	,0000
Within Groups	10	6,3075	,6308		
Total	14	438,0737			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	45,1533	,8201	,4735	43,1161 TO 47,1906
Grp 2	3	51,4567	,3602	,2080	50,5619 TO 52,3514
Grp 3	3	57,4700	,6409	,3700	55,8780 TO 59,0620
Grp 4	3	55,8267	,3250	,1876	55,0193 TO 56,6341
Grp 5	3	44,3300	1,3547	,7821	40,9647 TO 47,6953
Total	15	50,8473	5,5938	1,4443	47,7496 TO 53,9451

GROUP	MINIMUM	MAXIMUM
Grp 1	44,3400	45,9800
Grp 2	51,2100	51,8700
Grp 3	57,0000	58,2000
Grp 4	55,5000	56,1500
Grp 5	42,7700	45,2100
TOTAL	42,7700	58,2000

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
2,9649	4	10	,074

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,5616 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,15

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	G r p 5	G r p 1	G r p 2	G r p 4	G r p 3
44,3300	Grp 5					
45,1533	Grp 1					
51,4567	Grp 2	*	*			
55,8267	Grp 4	*	*	*		
57,4700	Grp 3	*	*	*	*	

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp 5	Grp 1
Mean	44,3300	45,1533

Subset 2

Group	Grp 2
Mean	51,4567

Subset 3

Group	Grp 4
Mean	55,8267

Subset 4

Group	Grp 3
Mean	57,4700

Lampiran 11. Anova kadar protein tepung

Variable PROTEIN
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	309,7637	77,4409	498,5895	,0000
Within Groups	10	1,5532	,1553		
Total	14	311,3169			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	9,6333	,4989	,2881	8,3939 TO 10,8728
Grp 2	3	1,3267	,1909	,1102	,8525 TO 1,8008
Grp 3	3	2,6300	,6062	,3500	1,1241 TO 4,1359
Grp 4	3	,8400	,0755	,0436	,6524 TO 1,0276
Grp 5	3	11,7567	,3436	,1984	10,9032 TO 12,6101
Total	15	5,2373	4,7156	1,2176	2,6259 TO 7,8487

GROUP	MINIMUM	MAXIMUM
Grp 1	9,2600	10,2000
Grp 2	1,1100	1,4700
Grp 3	1,9300	2,9800
Grp 4	,7600	,9100
Grp 5	11,3600	11,9600
TOTAL	,7600	11,9600

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
4,4284	4	10	,026

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,2787 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,15

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	G G G G G r r r r r p p p p p 4 2 3 1 5
,8400	Grp 4	
1,3267	Grp 2	
2,6300	Grp 3	* *
9,6333	Grp 1	* * *
11,7567	Grp 5	* * * *

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp 4	Grp 2
Mean	,8400	1,3267

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Subset 2

Group	Grp 3
Mean	2,6300

Subset 3

Group	Grp 1
Mean	9,6333

Subset 4

Group	Grp 5
Mean	11,7567

Lampiran 12. Anova kadar karbohidrat tepung

Variable KARBIHID
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	251,7886	62,9472	204,9106	,0000
Within Groups	10	3,0719	,3072		
Total	14	254,8606			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	76,3667	,9255	,5344	74,0675 TO 78,6659
Grp 2	3	81,6833	,2701	,1559	81,0125 TO 82,3542
Grp 3	3	83,0467	,3443	,1988	82,1914 TO 83,9019
Grp 4	3	83,9667	,4600	,2656	82,8239 TO 85,1095
Grp 5	3	73,4167	,5256	,3034	72,1110 TO 74,7223
Total	15	79,6960	4,2667	1,1016	77,3332 TO 82,0588

GROUP	MINIMUM	MAXIMUM
Grp 1	75,3300	77,1100
Grp 2	81,4100	81,9500
Grp 3	82,8000	83,4400
Grp 4	83,5100	84,4300
Grp 5	72,9800	74,0000
TOTAL	72,9800	84,4300

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
1,9474	4	10	,179

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,3919 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,15

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	G r p 5	G r p 1	G r p 2	G r p 3	G r p 4
73,4167	Grp 5					
76,3667	Grp 1	*				
81,6833	Grp 2	*	*			
83,0467	Grp 3	*	*	*		
83,9667	Grp 4	*	*	*		

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group Grp 5

Mean 73,4167
- - - - - - - - - - -

Subset 2

Group	Grp 1
Mean	76,3667

Subset 3

Group	Grp 2
Mean	81,6833

Subset 4

Group	Grp 3	Grp 4
Mean	83,0467	83,9667

Lampiran 13. Anova warna tepung

Variable WARNA
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	1154,3805	288,5951	7339,6524	,0000
Within Groups	10	,3932	,0393		
Total	14	1154,7737			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	91,7767	,1206	,0696	91,4772 TO 92,0761
Grp 2	3	84,5367	,1069	,0617	84,2710 TO 84,8023
Grp 3	3	95,3033	,1550	,0895	94,9182 TO 95,6884
Grp 4	3	70,7500	,3772	,2178	69,8129 TO 71,6871
Grp 5	3	91,8000	,0656	,0379	91,6371 TO 91,9629
Total	15	86,8333	9,0821	2,3450	81,8039 TO 91,8628

GROUP	MINIMUM	MAXIMUM
Grp 1	91,6500	91,8900
Grp 2	84,4700	84,6600
Grp 3	95,1500	95,4600
Grp 4	70,3300	71,0600
Grp 5	91,7300	91,8600
TOTAL	70,3300	95,4600

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
3,3001	4	10	,057

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,1402 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,15

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	G G G G G r r r r r p p p p p 4 2 1 5 3
70,7500	Grp 4	
84,5367	Grp 2	*
91,7767	Grp 1	* *
91,8000	Grp 5	* *
95,3033	Grp 3	* * * *

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp 4
Mean	70,7500

Subset 2

Group	Grp 2
Mean	84,5367

Subset 3

Group	Grp 1	Grp 5
Mean	91,7767	91,8000

Subset 4

Group	Grp 3
Mean	95,3033

Lampiran 14. Anova waktu gelatinisasi tepung

Variable GEL_WAK
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	116,1500	29,0375	52,7955	,0003
Within Groups	5	2,7500	,5500		
Total	9	118,9000			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	2	34,0000	1,4142	1,0000	21,2938 TO 46,7062
Grp 2	2	28,0000	,0000	,0000	28,0000 TO 28,0000
Grp 3	2	25,2500	,3536	,2500	22,0734 TO 28,4266
Grp 4	2	32,2500	,3536	,2500	29,0734 TO 35,4266
Grp 5	2	33,5000	,7071	,5000	27,1469 TO 39,8531
Total	10	30,6000	3,6347	1,1494	27,9999 TO 33,2001

GROUP	MINIMUM	MAXIMUM
Grp 1	33,0000	35,0000
Grp 2	28,0000	28,0000
Grp 3	25,0000	25,5000
Grp 4	32,0000	32,5000
Grp 5	33,0000	34,0000
TOTAL	25,0000	35,0000

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
2,79717E+16	4	5	,000

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,5244 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,64

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	G G G G G r r r r r p p p p p 3 2 4 5 1
25,2500	Grp 3	
28,0000	Grp 2	*
32,2500	Grp 4	* *
33,5000	Grp 5	* *
34,0000	Grp 1	* *

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group Grp 3

Mean 25,2500

Subset 2

Group	Grp 2
Mean	28,0000

Subset 3

Group	Grp 4	Grp 5	Grp 1
Mean	32,2500	33,5000	34,0000

Lampiran 15. Anova suhu gelatinisasi tepung

Variable GEL_SUHU
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	261,3375	65,3344	52,7955	,0003
Within Groups	5	6,1875	1,2375		
Total	9	267,5250			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	2	81,0000	2,1213	1,5000	61,9407 TO 100,0593
Grp 2	2	72,0000	,0000	,0000	72,0000 TO 72,0000
Grp 3	2	67,8750	,5303	,3750	63,1102 TO 72,6398
Grp 4	2	78,3750	,5303	,3750	73,6102 TO 83,1398
Grp 5	2	80,2500	1,0607	,7500	70,7203 TO 89,7797
Total	10	75,9000	5,4521	1,7241	71,9998 TO 79,8002

GROUP	MINIMUM	MAXIMUM
Grp 1	79,5000	82,5000
Grp 2	72,0000	72,0000
Grp 3	67,5000	68,2500
Grp 4	78,0000	78,7500
Grp 5	79,5000	81,0000
TOTAL	67,5000	82,5000

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
,	4	5	,

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,7866 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,64

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	Grp 3	Grp 2	Grp 4	Grp 5	Grp 1
		3	2	4	5	1
67,8750	Grp 3					
72,0000	Grp 2	*				
78,3750	Grp 4	*	*			
80,2500	Grp 5	*	*			
81,0000	Grp 1	*	*			

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp 3
Mean	67,8750

Subset 2

Group	Grp 2
Mean	72,0000

Subset 3

Group	Grp 4	Grp 5	Grp 1
Mean	78,3750	80,2500	81,0000

Lampiran 16. Anova waktu granula pecah

Variable WGP_WAKT
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	143,7500	35,9375	53,2407	,0003
Within Groups	5	3,3750	,6750		
Total	9	147,1250			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	2	41,7500	,3536	,2500	38,5734 TO 44,9266
Grp 2	2	42,7500	1,0607	,7500	33,2203 TO 52,2797
Grp 3	2	33,2500	,3536	,2500	30,0734 TO 36,4266
Grp 4	2	43,5000	,0000	,0000	43,5000 TO 43,5000
Grp 5	2	42,5000	1,4142	1,0000	29,7938 TO 55,2062
Total	10	40,7500	4,0432	1,2786	37,8577 TO 43,6423

GROUP	MINIMUM	MAXIMUM
Grp 1	41,5000	42,0000
Grp 2	42,0000	43,5000
Grp 3	33,0000	33,5000
Grp 4	43,5000	43,5000
Grp 5	41,5000	43,5000
TOTAL	33,0000	43,5000

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
3,28364E+16	4	5	,000

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,5809 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,64

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	Grp 3	Grp 1	Grp 5	Grp 2	Grp 4
		3	1	5	2	4
33,2500	Grp 3					
41,7500	Grp 1	*				
42,5000	Grp 5	*				
42,7500	Grp 2	*				
43,5000	Grp 4	*				

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp 3
Mean	33,2500

- - - - - - - - - -

Subset 2

Group	Grp 1	Grp 5	Grp 2	Grp 4
Mean	41,7500	42,5000	42,7500	43,5000

Lampiran 17. Anova suhu granula pecah

Variable WGP_SUHU
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	323,4375	80,8594	53,2407	,0003
Within Groups	5	7,5938	1,5188		
Total	9	331,0313			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	2	92,6250	,5303	,3750	87,8602 TO 97,3898
Grp 2	2	94,1250	1,5910	1,1250	79,8305 TO 108,4195
Grp 3	2	79,8750	,5303	,3750	75,1102 TO 84,6398
Grp 4	2	95,2500	,0000	,0000	95,2500 TO 95,2500
Grp 5	2	93,7500	2,1213	1,5000	74,6907 TO 112,8093
Total	10	91,1250	6,0648	1,9178	86,7865 TO 95,4635

GROUP	MINIMUM	MAXIMUM
Grp 1	92,2500	93,0000
Grp 2	93,0000	95,2500
Grp 3	79,5000	80,2500
Grp 4	95,2500	95,2500
Grp 5	92,2500	95,2500
TOTAL	79,5000	95,2500

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
,	4	5	,

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,8714 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,64

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	G G G G G r r r r r p p p p p 3 1 5 2 4
79,8750	Grp 3	
92,6250	Grp 1	*
93,7500	Grp 5	*
94,1250	Grp 2	*
95,2500	Grp 4	*

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp 3
Mean	79,8750

Subset 2

Group	Grp 1	Grp 5	Grp 2	Grp 4
Mean	92,6250	93,7500	94,1250	95,2500

Lampiran 18. Anova viskositas saat granula pecah

Variable WGP_VIS
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	588100,0000	147025,0000	763,7662	,0000
Within Groups	5	962,5000	192,5000		
Total	9	589062,5000			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	2	65,0000	7,0711	5,0000	1,4690 TO 128,5310
Grp 2	2	360,0000	14,1421	10,0000	232,9380 TO 487,0620
Grp 3	2	697,5000	24,7487	17,5000	475,1415 TO 919,8585
Grp 4	2	85,0000	7,0711	5,0000	21,4690 TO 148,5310
Grp 5	2	105,0000	7,0711	5,0000	41,4690 TO 168,5310
Total	10	262,5000	255,8347	80,9020	79,4870 TO 445,5130

GROUP	MINIMUM	MAXIMUM
Grp 1	60,0000	70,0000
Grp 2	350,0000	370,0000
Grp 3	680,0000	715,0000
Grp 4	80,0000	90,0000
Grp 5	100,0000	110,0000
TOTAL	60,0000	715,0000

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
4,28256E+15	4	5	,000

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= 9,8107 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,64

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	G r p 1	G r p 4	G r p 5	G r p 2	G r p 3
65,0000	Grp 1					
85,0000	Grp 4					
105,0000	Grp 5	*				
360,0000	Grp 2	*	*	*		
697,5000	Grp 3	*	*	*	*	

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp 1	Grp 4
Mean	65,0000	85,0000

Subset 2

Group	Grp 4	Grp 5
Mean	85,0000	105,0000

Subset 3

Group	Grp 2
Mean	360,0000

Subset 4

Group	Grp 3
Mean	697,5000

Lampiran 19. Anova viskositas dingin tepung

Variable V_DINGIN
By Variable JENIS_TP

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	4	280340,0000	70085,0000	18,3469	,0034
Within Groups	5	19100,0000	3820,0000		
Total	9	299440,0000			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	2	120,0000	56,5685	40,0000	-388,2480 TO 628,2480
Grp 2	2	270,0000	42,4264	30,0000	-111,1860 TO 651,1860
Grp 3	2	595,0000	91,9239	65,0000	-230,9030 TO 1420,9030
Grp 4	2	185,0000	49,4975	35,0000	-259,7170 TO 629,7170
Grp 5	2	200,0000	56,5685	40,0000	-308,2480 TO 708,2480
Total	10	274,0000	182,4037	57,6811	143,5163 TO 404,4837

GROUP	MINIMUM	MAXIMUM
Grp 1	80,0000	160,0000
Grp 2	240,0000	300,0000
Grp 3	530,0000	660,0000
Grp 4	150,0000	220,0000
Grp 5	160,0000	240,0000
TOTAL	80,0000	660,0000

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
1,29393E+15	4	5	,000

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= 43,7035 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 3,64

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_TP	G G G G G r r r r r p p p p p 1 4 5 2 3
120,0000	Grp 1	
185,0000	Grp 4	
200,0000	Grp 5	
270,0000	Grp 2	
595,0000	Grp 3	* * * *

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp 1	Grp 4	Grp 5	Grp 2
Mean	120,0000	185,0000	200,0000	270,0000

Subset 2	
Group	Grp 3
Mean	595,0000

Subset 2

Group	Grp 2	Grp 1	Grp 5
Mean	-90,0000	55,0000	95,0000

Subset 3

Group	Grp 1	Grp 5	Grp 4
Mean	55,0000	95,0000	100,0000

Lampiran 21.Anova warna mentah mie

Variable WMTH
By Variable JENIS_MI

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	13	4860,7482	373,9037	1008,0402	,0000
Within Groups	28	10,3858	,3709		
Total	41	4871,1340			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	81,5767	,7836	,4524	79,6301 TO 83,5233
Grp 2	3	74,1133	,7069	,4081	72,3572 TO 75,8694
Grp 3	3	87,3533	,6313	,3645	85,7851 TO 88,9216
Grp 4	3	62,7633	1,2667	,7313	59,6167 TO 65,9099
Grp 5	3	72,8033	,1012	,0584	72,5520 TO 73,0546
Grp 6	3	89,2467	,5237	,3023	87,9458 TO 90,5476
Grp 7	3	61,5033	,1436	,0829	61,1465 TO 61,8602
Grp 8	3	82,1867	,4620	,2667	81,0390 TO 83,3343
Grp 9	3	74,1133	,5616	,3243	72,7181 TO 75,5085
Grp10	3	86,8300	,3835	,2214	85,8772 TO 87,7828
Grp11	3	59,8867	,6009	,3469	58,3940 TO 61,3793
Grp12	3	71,7033	,4131	,2385	70,6772 TO 72,7295
Grp13	3	88,8400	,3704	,2139	87,9199 TO 89,7601
Grp14	3	58,8467	,6529	,3769	57,2248 TO 60,4685
Total	42	75,1262	10,8999	1,6819	71,7295 TO 78,5228

GROUP	MINIMUM	MAXIMUM
Grp 1	80,6800	82,1300
Grp 2	73,3000	74,5800
Grp 3	86,7000	87,9600
Grp 4	61,7400	64,1800
Grp 5	72,7400	72,9200
Grp 6	88,6500	89,6300
Grp 7	61,3400	61,6100
Grp 8	81,6700	82,5600
Grp 9	73,4900	74,5800
Grp10	86,4800	87,2400
Grp11	59,3400	60,5300
Grp12	71,4500	72,1800
Grp13	88,4600	89,2000
Grp14	58,2600	59,5500
TOTAL	58,2600	89,6300

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
2,0878	13	28	,050

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,4307 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 2,90

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_MI	Grp14	Grp11	Grp 7	Grp 4	Grp12	Grp 5	Grp 2	Grp 9	Grp 1	Grp 8	Grp10	Grp 3	Grp13	Grp 6
58,8467	Grp14														
59,8867	Grp11	*													
61,5033	Grp 7	*	*												
62,7633	Grp 4	*	*	*											
71,7033	Grp12	*	*	*	*										
72,8033	Grp 5	*	*	*	*	*									
74,1133	Grp 2	*	*	*	*	*	*								
74,1133	Grp 9	*	*	*	*	*	*								
81,5767	Grp 1	*	*	*	*	*	*	*	*						
82,1867	Grp 8	*	*	*	*	*	*	*	*						
86,8300	Grp10	*	*	*	*	*	*	*	*	*	*				
87,3533	Grp 3	*	*	*	*	*	*	*	*	*	*				
88,8400	Grp13	*	*	*	*	*	*	*	*	*	*	*	*		
89,2467	Grp 6	*	*	*	*	*	*	*	*	*	*	*	*		

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group Grp 8

Mean 58,8467

Subset 2

Group Grp 7

Mean 59,8867

Subset 3

Group Grp14

Mean 61,5033

Subset 4

Group Grp13

Mean 62,7633

Subset 5

Group Grp 6

Mean 71,7033

Subset 6

Group Grp12

Mean 72,8033

Subset 7

Group	Grp 5	Grp11
Mean	74,1133	74,1133

Subset 8

Group	Grp 1	Grp 2
Mean	81,5767	82,1867

Subset 9

Group	Grp 3	Grp 9
Mean	86,8300	87,3533

Subset 10

Group	Grp 4	Grp10
Mean	88,8400	89,2467

Lampiran 22. Anova warna matang mie

Variable WMTG
By Variable JENIS_MI

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	13	3984,4817	306,4986	274,7323	,0000
Within Groups	28	31,2375	1,1156		
Total	41	4015,7192			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	75,3400	,5122	,2957	74,0677 TO 76,6123
Grp 2	3	61,6233	1,8250	1,0537	57,0897 TO 66,1569
Grp 3	3	75,3100	,7927	,4576	73,3409 TO 77,2791
Grp 4	3	52,3867	,6099	,3522	50,8715 TO 53,9019
Grp 5	3	56,2867	1,3835	,7988	52,8498 TO 59,7236
Grp 6	3	73,0633	1,5821	,9134	69,1331 TO 76,9935
Grp 7	3	48,0233	1,2241	,7067	44,9825 TO 51,0642
Grp 8	3	74,5700	,9728	,5616	72,1535 TO 76,9865
Grp 9	3	60,9800	1,2964	,7485	57,7595 TO 64,2005
Grp10	3	75,1400	,7255	,4188	73,3378 TO 76,9422
Grp11	3	52,3100	,8543	,4933	50,1877 TO 54,4323
Grp12	3	57,3467	,0839	,0484	57,1383 TO 57,5550
Grp13	3	73,0567	,8907	,5143	70,8439 TO 75,2694
Grp14	3	58,8467	,6529	,3769	57,2248 TO 60,4685
Total	42	63,8774	9,8967	1,5271	60,7934 TO 66,9614

GROUP	MINIMUM	MAXIMUM
Grp 1	74,7500	75,6700
Grp 2	59,8000	63,4500
Grp 3	74,4200	75,9400
Grp 4	51,8500	53,0500
Grp 5	54,7800	57,5000
Grp 6	71,3400	74,4500
Grp 7	47,2000	49,4300
Grp 8	73,4800	75,3500
Grp 9	60,1100	62,4700
Grp10	74,3300	75,7300
Grp11	51,3800	53,0600
Grp12	57,2500	57,4000
Grp13	72,2300	74,0000
Grp14	58,2600	59,5500
TOTAL	47,2000	75,9400

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
1,3378	13	28	,250

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,7469 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 2,90

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_MI	Grp 7	Grp11	Grp 4	Grp 5	Grp12	Grp14	Grp 9	Grp 2	Grp13	Grp 6	Grp 8	Grp10	Grp 3	Grp 1
48,0233	Grp 7														
52,3100	Grp11	*													
52,3867	Grp 4	*													
56,2867	Grp 5	*	*	*											
57,3467	Grp12	*	*	*											
58,8467	Grp14	*	*	*	*										
60,9800	Grp 9	*	*	*	*	*	*								
61,6233	Grp 2	*	*	*	*	*	*								
73,0567	Grp13	*	*	*	*	*	*	*	*						
73,0633	Grp 6	*	*	*	*	*	*	*	*						
74,5700	Grp 8	*	*	*	*	*	*	*	*						
75,1400	Grp10	*	*	*	*	*	*	*	*	*	*				
75,3100	Grp 3	*	*	*	*	*	*	*	*	*	*				
75,3400	Grp 1	*	*	*	*	*	*	*	*	*	*				

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp14
Mean	48,0233

Subset 2

Group	Grp 7	Grp13
Mean	52,3100	52,3867

Subset 3

Group	Grp12	Grp 6
Mean	56,2867	57,3467

Subset 4

Group	Grp 6	Grp 8
Mean	57,3467	58,8467

Subset 5

Group	Grp 5	Grp11
Mean	60,9800	61,6233

Subset 6

Group	Grp 4	Grp10	Grp 2
Mean	73,0567	73,0633	74,5700

Subset 7

Group	Grp 2	Grp 3	Grp 9	Grp 1
Mean	74,5700	75,1400	75,3100	75,3400

Lampiean 23. Anova tekstur (*force*) mie matang

Variable TEK_FOR
By Variable JENIS_MI

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	13	1637,1479	125,9345	239,1099	,0000
Within Groups	28	14,7470	,5267		
Total	41	1651,8949			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	34,0283	,4169	,2407	32,9926 TO 35,0640
Grp 2	3	21,9097	,3775	,2180	20,9718 TO 22,8475
Grp 3	3	21,2127	,1289	,0744	20,8926 TO 21,5328
Grp 4	3	21,6923	1,0994	,6347	18,9613 TO 24,4233
Grp 5	3	18,5907	,4347	,2510	17,5109 TO 19,6705
Grp 6	3	21,5913	,7705	,4449	19,6773 TO 23,5054
Grp 7	3	13,9097	,4881	,2818	12,6972 TO 15,1221
Grp 8	3	38,9390	,8096	,4674	36,9279 TO 40,9501
Grp 9	3	26,8277	1,0733	,6197	24,1614 TO 29,4939
Grp10	3	21,8803	,7584	,4379	19,9963 TO 23,7644
Grp11	3	21,7853	1,2080	,6974	18,7844 TO 24,7862
Grp12	3	20,3713	,8346	,4818	18,2981 TO 22,4445
Grp13	3	23,0353	,0352	,0203	22,9478 TO 23,1229
Grp14	3	17,0300	,5210	,3008	15,7357 TO 18,3243
Total	42	23,0574	6,3474	,9794	21,0794 TO 25,0354

GROUP	MINIMUM	MAXIMUM
Grp 1	33,5930	34,4240
Grp 2	21,6450	22,3420
Grp 3	21,0690	21,3180
Grp 4	20,9030	22,9480
Grp 5	18,2400	19,0770
Grp 6	21,1390	22,4810
Grp 7	13,4040	14,3780
Grp 8	38,0510	39,6360
Grp 9	25,6220	27,6790
Grp10	21,0460	22,5280
Grp11	20,8800	23,1570
Grp12	19,4110	20,9210
Grp13	23,0050	23,0740
Grp14	16,4390	17,4230
TOTAL	13,4040	39,6360

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
2,7112	13	28	,013

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,5132 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 2,90

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_MI	Grp 7	Grp14	Grp 5	Grp12	Grp 3	Grp 6	Grp 4	Grp11	Grp10	Grp 2	Grp13	Grp 9	Grp 1	Grp 8
13,9097	Grp 7														
17,0300	Grp14	*													
18,5907	Grp 5	*	*												
20,3713	Grp12	*	*	*											
21,2127	Grp 3	*	*	*											
21,5913	Grp 6	*	*	*	*										
21,6923	Grp 4	*	*	*	*										
21,7853	Grp11	*	*	*	*										
21,8803	Grp10	*	*	*	*										
21,9097	Grp 2	*	*	*	*										
23,0353	Grp13	*	*	*	*	*	*	*	*						
26,8277	Grp 9	*	*	*	*	*	*	*	*	*	*				
34,0283	Grp 1	*	*	*	*	*	*	*	*	*	*	*			
38,9390	Grp 8	*	*	*	*	*	*	*	*	*	*	*	*		

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp14
Mean	13,9097

Subset 2

Group	Grp 8
Mean	17,0300

Subset 3

Group	Grp12
Mean	18,5907

Subset 4

Group	Grp 6	Grp 9
Mean	20,3713	21,2127

Subset 5

Group	Grp 9	Grp10	Grp13	Grp 7	Grp 3
Mean	21,2127	21,5913	21,6923	21,7853	21,8803
Group	Grp11				
Mean	21,9097				

Subset 6

Group	Grp 3	Grp11	Grp 4
Mean	21,8803	21,9097	23,0353

Subset 7

Group	Grp 5
Mean	26,8277

Subset 8

Group	Grp 1
Mean	34,0283

Subset 9

Group	Grp 2
Mean	38,9390

Lampiran 24. Anova tekstur (distance) mie matang

Variable TEK_DIS
By Variable JENIS_MI

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	13	5550,7773	426,9829	14,2183	,0000
Within Groups	28	840,8523	30,0304		
Total	41	6391,6297			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	-16,4157	2,4861	1,4354	-22,5917 TO -10,2397
Grp 2	3	-13,9093	1,9005	1,0972	-18,6305 TO -9,1882
Grp 3	3	-17,1820	4,8478	2,7989	-29,2248 TO -5,1392
Grp 4	3	-20,7017	2,6626	1,5372	-27,3160 TO -14,0874
Grp 5	3	-20,3253	2,9168	1,6840	-27,5712 TO -13,0794
Grp 6	3	-51,5843	15,1847	8,7669	-89,3056 TO -13,8630
Grp 7	3	-7,7433	1,9320	1,1154	-12,5427 TO -2,9440
Grp 8	3	-29,1050	,4882	,2819	-30,3177 TO -27,8923
Grp 9	3	-16,9690	1,5474	,8934	-20,8130 TO -13,1250
Grp10	3	-25,8067	3,7148	2,1447	-35,0349 TO -16,5785
Grp11	3	-13,3633	5,5199	3,1869	-27,0757 TO ,3491
Grp12	3	-18,4463	4,2635	2,4615	-29,0375 TO -7,8551
Grp13	3	-41,2087	8,3994	4,8494	-62,0741 TO -20,3432
Grp14	3	-11,9133	1,2642	,7299	-15,0539 TO -8,7727
Total	42	-21,7624	12,4857	1,9266	-25,6533 TO -17,8716

GROUP	MINIMUM	MAXIMUM
Grp 1	-19,2390	-14,5540
Grp 2	-15,7050	-11,9190
Grp 3	-20,3880	-11,6050
Grp 4	-23,7230	-18,6980
Grp 5	-22,0700	-16,9580
Grp 6	-61,4210	-34,0960
Grp 7	-9,7630	-5,9130
Grp 8	-29,6680	-28,7990
Grp 9	-18,6500	-15,6040
Grp10	-29,0300	-21,7440
Grp11	-19,7370	-10,1340
Grp12	-21,0920	-13,5280
Grp13	-48,8280	-32,2020
Grp14	-13,3280	-10,8940
TOTAL	-61,4210	-5,9130

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
5,9022	13	28	,000

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= 3,8749 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 2,90

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_MI	Grp 6	Grp13	Grp 8	Grp10	Grp 4	Grp 5	Grp12	Grp 3	Grp 9	Grp 1	Grp 2	Grp11	Grp14	Grp 7
-51,5843	Grp 6														
-41,2087	Grp13	*													
-29,1050	Grp 8	*	*												
-25,8067	Grp10	*	*												
-20,7017	Grp 4	*	*												
-20,3253	Grp 5	*	*												
-18,4463	Grp12	*	*	*											
-17,1820	Grp 3	*	*	*											
-16,9690	Grp 9	*	*	*											
-16,4157	Grp 1	*	*	*	*										
-13,9093	Grp 2	*	*	*	*										
-13,3633	Grp11	*	*	*	*										
-11,9133	Grp14	*	*	*	*										
-7,7433	Grp 7	*	*	*	*	*	*	*	*	*					

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp10
Mean	-51,5843

Subset 2

Group	Grp 4
Mean	-41,2087

Subset 3

Group	Grp 2	Grp 3	Grp13	Grp12
Mean	-29,1050	-25,8067	-20,7017	-20,3253

Subset 4

Group	Grp 3	Grp13	Grp12	Grp 6	Grp 9
Mean	-25,8067	-20,7017	-20,3253	-18,4463	-17,1820
Group	Grp 5				
Mean	-16,9690				

Subset 5

Group	Grp13	Grp12	Grp 6	Grp 9	Grp 5
Mean	-20,7017	-20,3253	-18,4463	-17,1820	-16,9690
Group	Grp 1	Grp11	Grp 7	Grp 8	
Mean	-16,4157	-13,9093	-13,3633	-11,9133	

Subset 6

Group	Grp 1	Grp11	Grp 7	Grp 8	Grp14
Mean	-16,4157	-13,9093	-13,3633	-11,9133	-7,7433

Lampiran 25. Anova protein mie

Variable PROTEIN
By Variable JENIS_MI

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	13	267,7366	20,5951	146,3836	,0000
Within Groups	28	3,9394	,1407		
Total	41	271,6760			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	9,8500	,2307	,1332	9,2770 TO 10,4230
Grp 2	3	6,2767	,2103	,1214	5,7542 TO 6,7991
Grp 3	3	5,6200	,1473	,0850	5,2541 TO 5,9859
Grp 4	3	6,0100	,1114	,0643	5,7334 TO 6,2866
Grp 5	3	2,7567	,0862	,0498	2,5425 TO 2,9708
Grp 6	3	4,2533	,1537	,0888	3,8714 TO 4,6352
Grp 7	3	2,2600	,7184	,4148	,4754 TO 4,0446
Grp 8	3	12,1200	,2651	,1531	11,4613 TO 12,7787
Grp 9	3	8,1400	,6564	,3790	6,5093 TO 9,7707
Grp10	3	7,2500	,0819	,0473	7,0467 TO 7,4533
Grp11	3	7,6833	,2309	,1333	7,1096 TO 8,2570
Grp12	3	5,4100	,4952	,2859	4,1799 TO 6,6401
Grp13	3	5,2367	,5862	,3384	3,7804 TO 6,6929
Grp14	3	5,2833	,3754	,2167	4,3508 TO 6,2159
Total	42	6,2964	2,5741	,3972	5,4943 TO 7,0986

GROUP	MINIMUM	MAXIMUM
Grp 1	9,6300	10,0900
Grp 2	6,0600	6,4800
Grp 3	5,5300	5,7900
Grp 4	5,8900	6,1100
Grp 5	2,6800	2,8500
Grp 6	4,1500	4,4300
Grp 7	1,4600	2,8500
Grp 8	11,8900	12,4100
Grp 9	7,3900	8,6100
Grp10	7,1800	7,3400
Grp11	7,5500	7,9500
Grp12	4,8500	5,7900
Grp13	4,5600	5,5900
Grp14	4,8500	5,5100
TOTAL	1,4600	12,4100

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
3,9471	13	28	,001

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,2652 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 2,90

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_MI	Grp 7	Grp 5	Grp 6	Grp13	Grp14	Grp12	Grp 3	Grp 4	Grp 2	Grp10	Grp11	Grp 9	Grp 1	Grp 8
2,2600	Grp 7														
2,7567	Grp 5														
4,2533	Grp 6	*	*												
5,2367	Grp13	*	*	*											
5,2833	Grp14	*	*	*											
5,4100	Grp12	*	*	*											
5,6200	Grp 3	*	*	*											
6,0100	Grp 4	*	*	*	*	*									
6,2767	Grp 2	*	*	*	*	*	*	*							
7,2500	Grp10	*	*	*	*	*	*	*	*	*					
7,6833	Grp11	*	*	*	*	*	*	*	*	*					
8,1400	Grp 9	*	*	*	*	*	*	*	*	*	*				
9,8500	Grp 1	*	*	*	*	*	*	*	*	*	*	*	*		
12,1200	Grp 8	*	*	*	*	*	*	*	*	*	*	*	*	*	

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp14	Grp12
Mean	2,2600	2,7567

Subset 2

Group	Grp10
Mean	4,2533

Subset 3

Group	Grp 4	Grp 8	Grp 6	Grp 9
Mean	5,2367	5,2833	5,4100	5,6200

Subset 4

Group	Grp 6	Grp 9	Grp13
Mean	5,4100	5,6200	6,0100

Subset 5

Group	Grp13	Grp11
Mean	6,0100	6,2767

Subset 6

Group	Grp 3	Grp 7
Mean	7,2500	7,6833

Subset 7

Group	Grp 7	Grp 5
Mean	7,6833	8,1400

Subset 8

Group	Grp 1
Mean	9,8500

Subset 9

Group	Grp 2
Mean	12,1200

Lampiran 26. Anova *cooking loss* mie

Variable COOK_LOS
By Variable JENIS_MI

Analysis of Variance

Source	D.F.	Sum of Squares	Mean Squares	F Ratio	F Prob.
Between Groups	13	1024,0882	78,7760	41,0183	,0000
Within Groups	28	53,7742	1,9205		
Total	41	1077,8624			

Group	Count	Mean	Standard Deviation	Standard Error	95 Pct Conf Int for Mean
Grp 1	3	37,0000	1,3115	,7572	33,7420 TO 40,2580
Grp 2	3	42,7667	,6658	,3844	41,1126 TO 44,4207
Grp 3	3	41,1667	,7767	,4485	39,2371 TO 43,0962
Grp 4	3	43,5667	1,6743	,9667	39,4074 TO 47,7259
Grp 5	3	45,0667	1,2279	,7089	42,0165 TO 48,1169
Grp 6	3	41,5833	,6401	,3696	39,9932 TO 43,1735
Grp 7	3	50,7467	1,3208	,7626	47,4656 TO 54,0278
Grp 8	3	37,3333	2,5325	1,4621	31,0423 TO 43,6244
Grp 9	3	32,1800	1,1769	,6795	29,2563 TO 35,1037
Grp10	3	39,7333	1,3204	,7623	36,4534 TO 43,0133
Grp11	3	49,0000	,6928	,4000	47,2789 TO 50,7211
Grp12	3	43,9000	1,6462	,9504	39,8105 TO 47,9895
Grp13	3	39,3000	1,6093	,9292	35,3021 TO 43,2979
Grp14	3	48,6667	1,5275	,8819	44,8720 TO 52,4613
Total	42	42,2864	5,1273	,7912	40,6886 TO 43,8842

GROUP	MINIMUM	MAXIMUM
Grp 1	35,8000	38,4000
Grp 2	42,0000	43,2000
Grp 3	40,3000	41,8000
Grp 4	42,6000	45,5000
Grp 5	44,1900	46,4700
Grp 6	40,8500	42,0300
Grp 7	49,4000	52,0400
Grp 8	35,4000	40,2000
Grp 9	31,2400	33,5000
Grp10	38,3000	40,9000
Grp11	48,2000	49,4000
Grp12	42,9000	45,8000
Grp13	37,6000	40,8000
Grp14	47,0000	50,0000
TOTAL	31,2400	52,0400

Levene Test for Homogeneity of Variances

Statistic	df1	df2	2-tail Sig.
1,3235	13	28	,258

Multiple Range Tests: LSD test with significance level ,05

The difference between two means is significant if
MEAN(J)-MEAN(I) >= ,9799 * RANGE * SQRT(1/N(I) + 1/N(J))
with the following value(s) for RANGE: 2,90

(*) Indicates significant differences which are shown in the lower triangle

Mean	JENIS_MI	G r p 9	G r p 1	G r p 8	G r p 1 3	G r p 1 0	G r p 3	G r p 6	G r p 2	G r p 4	G r p 1 2	G r p 5	G r p 1 4	G r p 1 1	G r p 7
32,1800	Grp. 9														
37,0000	Grp 1	*													
37,3333	Grp 8	*													
39,3000	Grp13	*													
39,7333	Grp10	*	*	*											
41,1667	Grp 3	*	*	*											
41,5833	Grp 6	*	*	*											
42,7667	Grp 2	*	*	*	*	*									
43,5667	Grp 4	*	*	*	*	*	*								
43,9000	Grp12	*	*	*	*	*	*								
45,0667	Grp 5	*	*	*	*	*	*	*							
48,6667	Grp14	*	*	*	*	*	*	*	*	*	*				
49,0000	Grp11	*	*	*	*	*	*	*	*	*	*	*			
50,7467	Grp 7	*	*	*	*	*	*	*	*	*	*	*			

Homogeneous Subsets (highest and lowest means are not significantly different)

Subset 1

Group	Grp 1	Grp 2	Grp 4
Mean	37,0000	37,3333	39,3000

Subset 2

Group	Grp 4	Grp 3	Grp 9	Grp10
Mean	39,3000	39,7333	41,1667	41,5833

Subset 3

Group	Grp 9	Grp10	Grp 5	Grp11
Mean	41,1667	41,5833	42,6867	42,7667

Subset 4

Group	Grp10	Grp 5	Grp11	Grp13	Grp 6
Mean	41,5833	42,6867	42,7667	43,5667	43,9000

Subset 5

Group	Grp11	Grp13	Grp 6	Grp12
Mean	42,7667	43,5667	43,9000	45,0667

Subset 6

Group	Grp 8	Grp 7	Grp14
Mean	48,6667	49,0000	50,7467