

7.2. Lampiran

7.2.1. Output SPSS

Lampiran 1. Output Uji Normalitas

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
massa_ supernatanultrasound	,109	18	,200*	,983	18	,974
air_ supernatanultrasound	,162	18	,200*	,948	18	,397
protein_ supernatanultrasound	,183	18	,115	,958	18	,562
massa_ peletultrasound	,124	18	,200*	,955	18	,516
protein_ peletultrasound	,183	18	,114	,911	18	,088
massa_ supernatanultrasounde nzim	,128	18	,200*	,970	18	,800
air_ supernatanultrasounde nzim	,168	18	,195	,959	18	,588
protein_ supernatanultrasounde nzim	,131	18	,200*	,951	18	,445
massa_ peletultrasounde nzim	,127	18	,200*	,951	18	,441
protein_ peletultrasounde nzim	,140	18	,200*	,944	18	,336
massa_ bubuk	,122	18	,200*	,945	18	,357
air_ bubuk	,155	18	,200*	,925	18	,158
lemak_ bubuk	,106	18	,200*	,978	18	,925
protein_ bubuk	,100	18	,200*	,947	18	,384
massa_ supernatanbubukair	,178	18	,137	,905	18	,070
protein_ supernatanbubukair	,091	18	,200*	,951	18	,438
massa_ peletbubukair	,131	18	,200*	,923	18	,147
protein_ peletbubukair	,150	18	,200*	,896	18	,050
viskositas_ bubuk	,193	18	,076	,875	18	,022
warna_ L	,125	18	,200*	,949	18	,403
warna_ a	,105	18	,200*	,983	18	,979
warna_ b	,170	18	,180	,914	18	,101

*. This is a lower bound of the true significance.

a. Lilliefors Significance Correction

Lampiran 2. *Output Uji Homogenitas***Test of Homogeneity of Variances**

	Levene Statistic	df1	df2	Sig.
massa_ supernatanultrasound	1,780	5	12	,191
air_ supernatanultrasound	2,354	5	12	,104
protein_ supernatanultrasound	2,698	5	12	,074
massa_peletultrasound	2,691	5	12	,074
protein_peletultrasound	1,771	5	12	,193
massa_ supernatanultrasoude nzim	,775	5	12	,586
air_ supernatanultrasoude nzim	2,293	5	12	,111
protein_ supernatanultrasoude nzim	2,011	5	12	,149
massa_ peletultrasoude nzim	,833	5	12	,551
protein_ peletultrasoude nzim	1,705	5	12	,208
massa_bubuk	1,031	5	12	,443
air_bubuk	2,474	5	12	,092
lemak_bubuk	1,712	5	12	,206
protein_bubuk	2,465	5	12	,093
massa_ supernatanbubukair	,541	5	12	,742
protein_ supernatanbubukair	2,327	5	12	,107
massa_peletbubukair	1,089	5	12	,415
protein_peletbubukair	,920	5	12	,501
viskositas_bubuk	2,691	5	12	,074
warna_L	,547	5	12	,738
warna_a	2,117	5	12	,133
warna_b	2,065	5	12	,141

Lampiran 3. *Output Uji One Way ANOVA*

		ANOVA				
		Sum of Squares	df	Mean Square	F	Sig.
massa_supematanultrasound	Between Groups	120,035	5	24,007	,343	,877
	Within Groups	839,018	12	69,918		
	Total	959,052	17			
air_supematanultrasound	Between Groups	116,664	5	23,333	,318	,893
	Within Groups	881,569	12	73,464		
	Total	998,233	17			
protein_supematanultrasound	Between Groups	5,200	5	1,040	5,029	,010
	Within Groups	2,481	12	,207		
	Total	7,681	17			
massa_peletultrasound	Between Groups	6,556	5	1,311	,636	,677
	Within Groups	24,743	12	2,062		
	Total	31,298	17			
protein_peletultrasound	Between Groups	,270	5	,054	,631	,680
	Within Groups	1,028	12	,086		
	Total	1,298	17			
massa_supematanultrasoundenzim	Between Groups	1345,188	5	269,038	25,927	,000
	Within Groups	124,518	12	10,377		
	Total	1469,707	17			
air_supematanultrasoundenzim	Between Groups	435,123	5	87,025	14,378	,000
	Within Groups	72,631	12	6,053		
	Total	507,754	17			
protein_supematanultrasoundenzim	Between Groups	11,815	5	2,363	10,462	,000
	Within Groups	2,710	12	,226		
	Total	14,525	17			
massa_peletultrasoundenzim	Between Groups	1,738	5	,348	,120	,985
	Within Groups	34,814	12	2,901		
	Total	36,552	17			
protein_peletultrasoundenzim	Between Groups	,067	5	,013	,479	,785
	Within Groups	,334	12	,028		
	Total	,401	17			
massa_bubuk	Between Groups	372,315	5	74,463	23,157	,000
	Within Groups	38,587	12	3,216		
	Total	410,902	17			
air_bubuk	Between Groups	,630	5	,126	6,821	,003
	Within Groups	,222	12	,018		
	Total	,852	17			
lemak_bubuk	Between Groups	3,148	5	,630	2,716	,072
	Within Groups	2,781	12	,232		
	Total	5,929	17			
protein_bubuk	Between Groups	11,531	5	2,306	8,495	,001
	Within Groups	3,258	12	,271		
	Total	14,789	17			
massa_supematanbubukair	Between Groups	33,132	5	6,626	14,918	,000
	Within Groups	5,330	12	,444		
	Total	38,463	17			
protein_supematanbubukair	Between Groups	11,252	5	2,250	7,695	,002
	Within Groups	3,509	12	,292		
	Total	14,761	17			
massa_peletbubukair	Between Groups	4,717	5	,943	3,958	,024
	Within Groups	2,861	12	,238		
	Total	7,578	17			
protein_peletbubukair	Between Groups	,011	5	,002	,673	,652
	Within Groups	,039	12	,003		
	Total	,050	17			
viskositas_bubuk	Between Groups	40,140	5	8,028	46,251	,000
	Within Groups	2,083	12	,174		
	Total	42,223	17			
warna_L	Between Groups	102,833	5	20,567	16,680	,000
	Within Groups	14,796	12	1,233		
	Total	117,629	17			
warna_a	Between Groups	18,508	5	3,702	12,477	,000
	Within Groups	3,560	12	,297		
	Total	22,068	17			
warna_b	Between Groups	83,848	5	16,770	30,673	,000
	Within Groups	6,561	12	,547		
	Total	90,409	17			

Lampiran 4. *Output* Uji Post-Hoc Duncan Massa Supernatan Setelah Perlakuan *Ultrasound* dan Enzim

massa_supernatanultrasoundenzim

Duncan^a

kadarenzim	N	Subset for alpha = .05				
		1	2	3	4	5
0%	3	293,3100				
1%	3		302,6200			
2%	3			308,4733		
3%	3			312,3567	312,3567	
4%	3				315,4133	315,4133
5%	3					319,4767
Sig.		1,000	1,000	,166	,268	,148

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 5. *Output* Uji Post-Hoc Duncan Kadar Air Supernatan Setelah Perlakuan *Ultrasound* Dan Enzim

air_supernatanultrasoundenzim

Duncan^a

kadarenzim	N	Subset for alpha = .05			
		1	2	3	4
0%	3	282,3233			
1%	3		287,5767		
2%	3		291,4867	291,4867	
3%	3			292,4367	
4%	3			294,4833	294,4833
5%	3				297,6033
Sig.		1,000	,075	,181	,146

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 6. *Output* Uji Post-Hoc Tukey Kadar Protein *Dry basis* Supernatan Setelah Perlakuan *Ultrasound* dan Enzim

protein_supernatanultrasoundenzim

Tukey HSD^a

kadarenzim	N	Subset for alpha = .05		
		1	2	3
0%	3	1,8600		
5%	3	2,2867	2,2867	
1%	3	2,6500	2,6500	
4%	3	3,1033	3,1033	3,1033
2%	3		3,4733	3,4733
3%	3			4,3367
Sig.		,065	,082	,068

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 7. *Output* Uji Post-Hoc Duncan Massa Pelet Setelah Perlakuan *Ultrasound* dan Enzim

massa_peletultrasoundenzim

Duncan^a

kadarenzim	N	Subset for alpha = .05
		1
2%	3	8,5600
3%	3	8,7833
5%	3	8,8300
0%	3	9,1300
4%	3	9,2967
1%	3	9,4533
Sig.		,569

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 8. *Output* Uji Post-Hoc Tukey Kadar Protein Pelet Setelah Perlakuan *Ultrasound* dan Enzim

protein_peletultrasoundenzim

Tukey HSD^a

kadarenzim	N	Subset for alpha = .05
		1
4%	3	,2367
0%	3	,2400
2%	3	,2833
3%	3	,2900
1%	3	,3000
5%	3	,4200
Sig.		,756

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 9. *Output* Uji Post-Hoc Tukey Massa Bubuk Gelatin

massa_bubuk

Tukey HSD^a

kadarenzim	N	Subset for alpha = .05			
		1	2	3	4
0%	3	8,2367			
1%	3	12,7800	12,7800		
2%	3		16,3200	16,3200	
3%	3			18,0833	18,0833
4%	3			20,4233	20,4233
5%	3				21,4533
Sig.		,076	,224	,124	,265

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 10. *Output* Uji Post-Hoc Tukey Kadar Air Bubuk Gelatin**air_bubuk**Tukey HSD^a

kadarensim	N	Subset for alpha = .05	
		1	2
5%	3	,5767	
0%	3	,6433	
4%	3	,8200	,8200
1%	3	,9200	,9200
3%	3		1,0533
2%	3		1,0633
Sig.		,078	,308

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 11. *Output* Uji Post-Hoc Tukey Kadar Lemak Bubuk Gelatin**lemak_bubuk**Tukey HSD^a

kadarensim	N	Subset for alpha = .05
		1
0%	3	1,8567
3%	3	2,5567
1%	3	2,5800
4%	3	2,8500
5%	3	3,0567
2%	3	3,1000
Sig.		,069

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 12. *Output* Uji Post-Hoc Tukey Kadar Protein Bubuk Gelatin**protein_bubuk**

Tukey HSD^a

kadarensim	N	Subset for alpha = .05		
		1	2	3
0%	3	2,1000		
5%	3	2,7067	2,7067	
1%	3	2,9500	2,9500	
4%	3	3,3667	3,3667	3,3667
2%	3		3,7267	3,7267
3%	3			4,6267
Sig.		,094	,231	,096

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 13. *Output* Uji Post-Hoc Tukey Viskositas Campuran Bubuk dan Air**viskositas**

Tukey HSD^a

kadarensim	N	Subset for alpha = .05			
		1	2	3	4
5%	3	2,9400			
4%	3	3,3367	3,3367		
3%	3	3,9367	3,9367		
2%	3		4,3367		
1%	3			5,8233	
0%	3				7,2500
Sig.		,101	,100	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 14. *Output* Uji Post-Hoc Duncan Nilai *Lightness* Bubuk Gelatin

warna_L

Duncan^a

kadarencim	N	Subset for alpha = .05			
		1	2	3	4
0%	3	33,3667			
2%	3	34,5933	34,5933		
3%	3	35,2367	35,2367		
1%	3		36,1000	36,1000	
5%	3			37,6267	
4%	3				40,7533
Sig.		,073	,139	,118	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 15. *Output* Uji Post-Hoc Duncan Nilai *a* Bubuk Gelatin

warna_a

Duncan^a

kadarencim	N	Subset for alpha = .05		
		1	2	3
0%	3	89,4567		
3%	3	90,3133	90,3133	
1%	3		90,6633	
2%	3		90,8167	
5%	3			91,8067
4%	3			92,5933
Sig.		,078	,303	,102

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 16. *Output* Uji Post-Hoc Duncan Nilai b Bubuk Gelatin**warna_b**Duncan^a

kadarensim	N	Subset for alpha = .05			
		1	2	3	4
0%	3	77,9133			
2%	3		79,5033		
1%	3		79,7067		
3%	3		80,0567		
5%	3			82,0200	
4%	3				84,6533
Sig.		1,000	,401	1,000	1,000

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 17. *Output* Uji Post-Hoc Duncan Massa Supernatan Campuran Bubuk dan Air**massa_supernatan bubukair**Duncan^a

kadarensim	N	Subset for alpha = .05	
		1	2
1%	3	43,7400	
0%	3	43,9800	
2%	3	44,1033	
3%	3		46,5333
4%	3		46,6500
5%	3		46,7467
Sig.		,538	,716

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 18. *Output* Uji Post-Hoc Duncan Kadar Protein *Dry basis* Supernatan Campuran Bubuk dan Air

protein_supernatanbubukair

Tukey HSD^a

kadarenzim	N	Subset for alpha = .05		
		1	2	3
0%	3	2,0200		
5%	3	2,6433	2,6433	
1%	3	2,8333	2,8333	
4%	3	3,3167	3,3167	3,3167
2%	3		3,6400	3,6400
3%	3			4,5100
Sig.		,100	,282	,146

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 19. *Output* Uji Post-Hoc Tukey Massa Pelet Campuran Bubuk dan Air

massa_peletbubukair

Tukey HSD^a

kadarenzim	N	Subset for alpha = .05	
		1	2
2%	3	,9267	
4%	3	,9933	,9933
5%	3	1,1467	1,1467
3%	3	1,3167	1,3167
1%	3	2,0100	2,0100
0%	3		2,2667
Sig.		,142	,066

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.

Lampiran 20. *Output* Uji Post-Hoc Tukey Kadar Protein Pelet Campuran Bubuk dan Air

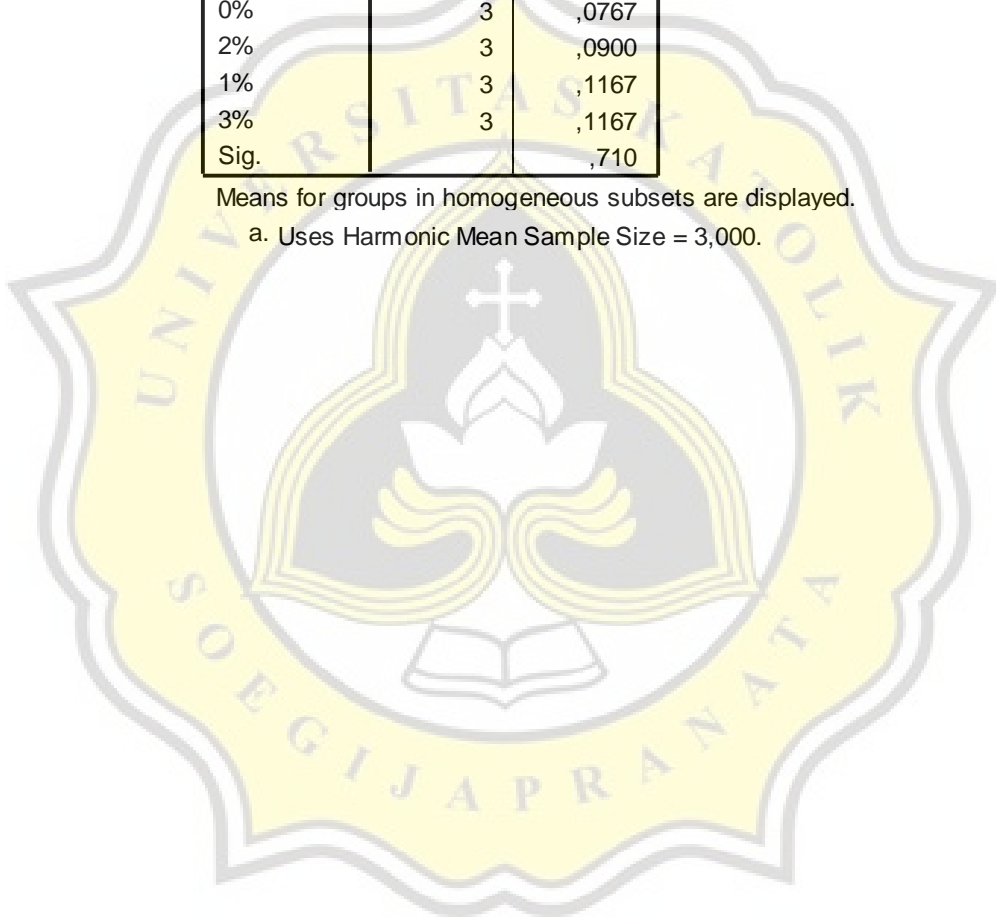
protein_peletbubukair

Tukey HSD^a

kadarenzim	N	Subset for alpha = .05
		1
4%	3	,0500
5%	3	,0667
0%	3	,0767
2%	3	,0900
1%	3	,1167
3%	3	,1167
Sig.		,710

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 3,000.



7.2.2. Dokumentasi Kegiatan



Lampiran 21. Gilingan Ceker Ayam



Lampiran 22. Penimbangan Gilingan Ceker Ayam



Lampiran 23. *Ultrasound* Gilingan Ceker Ayam dan Aquades



Lampiran 24. Sentrifugasi Setelah *Ultrasound*



Lampiran 25. Penimbangan Enzim Papain



Lampiran 26. Inkubasi di Oven Suhu 60°C Selama 6 Jam



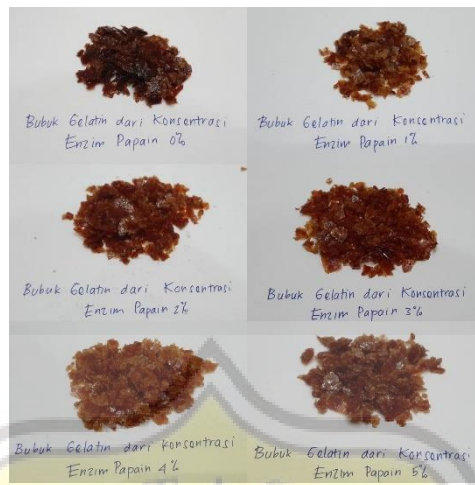
Lampiran 27. Waterbath 95°C Selama 10 Menit



Lampiran 28. Sentrifugasi Setelah Perlakuan *Ultrasound* dan Enzim



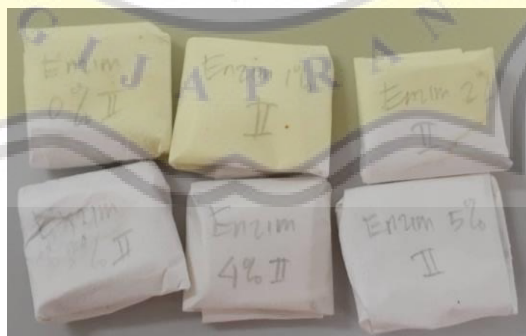
Lampiran 29. Penimbangan Supernatan Sebelum Pengeringan



Lampiran 30. Bubuk Gelatin



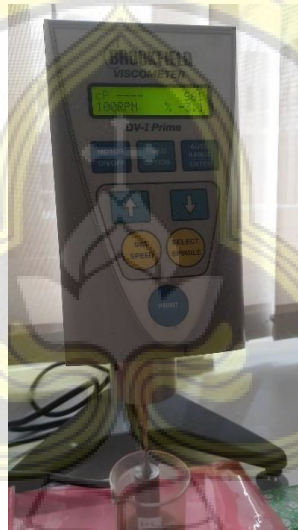
Lampiran 31. Uji Warna Bubuk Gelatin dengan *Chromameter*



Lampiran 32. Uji Lemak Bubuk Gelatin



Lampiran 33. Sentrifugasi Campuran Bubuk Gelatin dan Air



Lampiran 34. Uji Viskositas Larutan Bubuk Gelatin dengan *Viscometer*



Lampiran 35. Uji Absorbansi Kadar Protein dengan Spektrofotometer UV-Vis

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Lampiran 36. Hasil Antiplagiasi