LAMPIRAN

8.1. Uji Normalitas

Tests of Normality

	Kolmogorov-Smirnov[a]			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Berat_gel	,131	27	,200*	,946	27	,167
pH_sblm	,140	27	,185	,921	27	,042
pH_ssudah	,189	27	,014	,886	27	,007
Kektn_gel	,127	27	,200*	,952	27	,236
kd_air	,096	27	,200*	,974	27	,698
brt_tepung	,075	27	,200*	,989	27	,992
Rendemen	,073	27	,200*	,989	27	,992
Prot	,118	27	,200*	,967	27	,525
pH_tepung	,131	27	,200*	,953	27	,257
L	,129	27	,200*	,932	27	,075
a	,136	27	,200*	,944	27	,156
b	,091	27	,200*	,972	27	,651

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

a. Lilliefors Significance Correction

8.2. Uji Homogenitas

Test of Homogeneity of Variances

	Levene Statistic	df1	df2	Sig.
brt_gel	1,977	8	18	,110
pH_sblm	1,434	8	18	,249
pH_ssdh	2,325	8	18	,065
kktn_gel	2,187	8	18	,080
brt_tepung	1,230	8	18	,337
kdr_air	3,462	8	18	,014
rendemen	1,227	8	18	,339
protein	2,554	8	18	,047
pH_tepung	,919	8	18	,524
L	6,484	8	18	,000
a	4,138	8	18	,006
b	4,941	8	18	,002

8.3. Berat Gel

berat_gel

Duncan[a,b]

pct_basa	N	Subset 1	Subset 2	Subset 3
1%	9	502,2211		
1,5%	9		554,3644	
2%	9			585,0711
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 401,299.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

Berat_gel

Duncan[a]

waktu	N	Subset for alpha = .05: 1	2
12 jam	9	524,5144	
24 jam	9	549,5133	549,5133
36 jam	9		567,6289
Sig.		,215	,365

Means for groups in homogeneous subsets are displayed.

a. Uses Harmonic Mean Sample Size = 9,000.

berat_gel

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05: 1	2
1% 12 jam	3	464,1067	
1% 24 jam	3	504,3967	504,3967
1% 36 jam	3		538,1600
Sig.		,120	,180

Means for groups in homogeneous subsets are displayed.

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

berat_gel

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05
		1
1,5% 12 jam	3	546,7933
1,5% 24 jam	3	556,0600
1,5% 36 jam	3	560,2400
Sig.		,598

Means for groups in homogeneous subsets are displayed.

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

berat_gel

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05	
		1	2
2% 12 jam	3	562,6433	
2% 24 jam	3	588,0833	588,0833
2% 36 jam	3		604,4867
Sig.		,067	,201

Means for groups in homogeneous subsets are displayed.

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

berat_gel

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05	
		1	2
1% 12 jam	3	464,1067	
1,5% 12 jam	3		546,7933
2% 12 jam	3		562,6433
Sig.		1,000	,509

Means for groups in homogeneous subsets are displayed.

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

berat_gel

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05		
		1	2	3
1% 24 jam	3	504,3967		
1,5% 24 jam	3		556,0600	
2% 24 jam	3			588,0833
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

berat_gel

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05	
		1	2
1% 36 jam	3	538,1600	
1,5% 36 jam	3	560,2400	
2% 36 jam	3		604,4867
Sig.		,113	1,000

Means for groups in homogeneous subsets are displayed.

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

9.4. Kekuatan Gel

Levene's Test of Equality of Error Variances[a]

Dependent Variable: kktn_gel

F	df1	df2	Sig.
2,187	8	18	,080

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+pct_basa+wkt_hdrlisis+pct_basa * wkt_hdrlisis

.

Tests of Between-Subjects Effects

Dependent Variable: kktn_gel

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	947,637[a]	8	118,455	3,256	,018
Intercept	27397,052	1	27397,052	753,174	,000
pct_basa	730,652	2	365,326	10,043	,001
wkt_hdrlisis	180,144	2	90,072	2,476	,112
pct_basa * wkt_hdrlisis	36,840	4	9,210	,253	,904
Error	654,759	18	36,375		
Total	28999,447	27			
Corrected Total	1602,395	26			

a. R Squared = ,591 (Adjusted R Squared = ,410)

kktn_gel

Duncan[a,b]

pct_basa	N	Subset 1	Subset 2	Subset 3
1%	9	25,6067		
1,5%	9		31,6144	
2%	9			38,3422
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 36,375.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

kktn_gel

Duncan[a,b]

wkt_hdrlisis	N	Subset 1
12 jam	9	28,3511
24 jam	9	32,7100
36 jam	9	34,5022
Sig.		,054

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 36,375.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

kktn_gel

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05	
		1	2
1% 12 jam	3	20,2533	
1,5% 12 jam	3		29,9367
2% 12 jam	3		34,8633
Sig.		1,000	,166

Means for groups in homogeneous subsets are displayed.

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

kktn_gel

Duncan[a]

basa_wkt	N	Subset for alpha = .05
		1
1% 24 jam	3	28,0400
1,5% 24 jam	3	31,6967
2% 24 jam	3	38,3933
Sig.		,112

Means for groups in homogeneous subsets are displayed.

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

kktn_gel

Duncan[a]

basa_wkt	N	Subset for alpha = .05
		1
1% 36 jam	3	28,5267
1,5% 36 jam	3	33,2100
2% 36 jam	3	41,7700
Sig.		,071

Means for groups in homogeneous subsets are displayed.

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

8.5. Berat Tepung

Levene's Test of Equality of Error Variances[a]

Dependent Variable: brt_tepung

F	df1	df2	Sig.
1,230	8	18	,337

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+pct_basa+wkt_hdrlisis+pct_basa * wkt_hdrlisis

Tests of Between-Subjects Effects

Dependent Variable: brt_tepung

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	80,922[a]	8	10,115	2,664	,040
Intercept	6506,916	1	6506,916	1713,636	,000
pct_basa	16,877	2	8,438	2,222	,137
wkt_hdrlisis	62,910	2	31,455	8,284	,003
pct_basa * wkt_hdrlisis	1,135	4	,284	,075	,989
Error	68,349	18	3,797		
Total	6656,186	27			
Corrected Total	149,270	26			

a. R Squared = ,542 (Adjusted R Squared = ,339)

brt_tepung

Duncan[a,b]

pct_basa	N	Subset 1
1%	9	14,6822
1,5%	9	15,3078
2%	9	16,5822
Sig.		,065

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 3,797.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

brt_tepung

Duncan[a,b]

wkt_hdrlisis	N	Subset 1	Subset 2
36 jam	9	13,6100	
24 jam	9		15,6167
12 jam	9		17,3456
Sig.		1,000	,076

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 3,797.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

brt_tepung

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05 1
1% 36 jam	3	12,9300
1% 24 jam	3	14,9267
1% 12 jam	3	16,1900
Sig.		,299

Means for groups in homogeneous subsets are displayed.

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

brt_tepung

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05 1	2
1,5% 36 jam	3	13,4967	
1,5% 24 jam	3	15,3500	15,3500
1,5% 12 jam	3		17,0767
Sig.		,080	,097

Means for groups in homogeneous subsets are displayed.

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

brt_tepung

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05
		1
2% 36 jam	3	14,4033
2% 24 jam	3	16,5733
2% 12 jam	3	18,7700
Sig.		,094

Means for groups in homogeneous subsets are displayed.

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

brt_tepung

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05
		1
1% 12 jam	3	16,1900
1,5% 12 jam	3	17,0767
2% 12 jam	3	18,7700
Sig.		,331

Means for groups in homogeneous subsets are displayed.

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

brt_tepung

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05
		1
1% 24 jam	3	14,9267
1,5% 24 jam	3	15,3500
2% 24 jam	3	16,5733
Sig.		,317

Means for groups in homogeneous subsets are displayed.

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

brt_tepung

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05 1
1% 36 jam	3	12,9300
1,5% 36 jam	3	13,4967
2% 36 jam	3	14,4033
Sig.		,741

Means for groups in homogeneous subsets are displayed.

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

8.6. Rendemen

Tests of Between-Subjects Effects

Dependent Variable: rendemen

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	8,991[a]	8	1,124	2,664	,040
Intercept	722,991	1	722,991	1713,636	,000
pct_basa	1,875	2	,938	2,222	,137
wkt_hdrlisis	6,990	2	3,495	8,284	,003
pct_basa * wkt_hdrlisis	,126	4	,032	,075	,989
Error	7,594	18	,422		
Total	739,576	27			
Corrected Total	16,586	26			

a. R Squared = ,542 (Adjusted R Squared = ,339)

rendemen

Duncan[a,b]

pct_basa	N	Subset 1
1%	9	4,8941
1,5%	9	5,1026
2%	9	5,5274
Sig.		,065

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = ,422.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

rendemen

Duncan[a,b]

wkt_hdrlisis	N	Subset 1	Subset 2
36 jam	9	4,5367	
24 jam	9		5,2056
12 jam	9		5,7819
Sig.		1,000	,076

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = ,422.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

Rendemen

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05 1
1% 36 jam	3	4,3100
1% 24 jam	3	4,9733
1% 12 jam	3	5,3967
Sig.		,299

Means for groups in homogeneous subsets are displayed.

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

Rendemen

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05 1	2
1,5% 36 jam	3	4,5000	
1,5% 24 jam	3	5,1167	5,1167
1,5% 12 jam	3		5,6900
Sig.		,081	,099

Means for groups in homogeneous subsets are displayed.

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

Rendemen

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05
		1
2% 36 jam	3	4,8033
2% 24 jam	3	5,5267
2% 12 jam	3	6,2567
Sig.		,095

Means for groups in homogeneous subsets are displayed.

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

rendemen

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05
		1
1% 12 jam	3	5,3967
1,5% 12 jam	3	5,6900
2% 12 jam	3	6,2567
Sig.		,332

Means for groups in homogeneous subsets are displayed.

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

rendemen

Duncan[a]

basa_wkt	N	Subset for alpha = .05
		1
1% 24 jam	3	4,9733
1,5% 24 jam	3	5,1167
2% 24 jam	3	5,5267
Sig.		,172

Means for groups in homogeneous subsets are displayed.

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

rendemen

Duncan[a]

basa_wkt	N	Subset for alpha = .05
		1
1% 36 jam	3	4,3100
1,5% 36 jam	3	4,5000
2% 36 jam	3	4,8033
Sig.		,489

Means for groups in homogeneous subsets are displayed.

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

8.7. Warna (L*)

Levene's Test of Equality of Error Variances[a]

Dependent Variable: L

F	df1	df2	Sig.
6,484	8	18	,000

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+pct_basa+wkt_hdrlisis+pct_basa * wkt_hdrlisis

Tests of Between-Subjects Effects

Dependent Variable: L

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2028,910[a]	8	253,614	70,695	,000
Intercept	31774,835	1	31774,835	8857,298	,000
pct_basa	1675,999	2	838,000	233,594	,000
wkt_hdrlisis	283,354	2	141,677	39,493	,000
pct_basa * wkt_hdrlisis	69,557	4	17,389	4,847	,008
Error	64,574	18	3,587		
Total	33868,318	27			
Corrected Total	2093,484	26			

a. R Squared = ,969 (Adjusted R Squared = ,955)

L

Duncan[a,b]

pct_basa	N	Subset 1	Subset 2	Subset 3
2%	9	23,8311		
1,5%	9		36,2511	
1%	9			42,8333
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 3,587.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

L

Duncan[a,b]

wkt_hdrlisis	N	Subset 1	Subset 2	Subset 3
36 jam	9	30,4622		
24 jam	9		34,0667	
12 jam	9			38,3867
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 3,587.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

L

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05 1	Subset for alpha = .05 2
1% 36 jam	3	39,9767	
1% 24 jam	3	41,6767	
1% 12 jam	3		46,8467
Sig.		,412	1,000

Means for groups in homogeneous subsets are displayed.

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

L

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05	
		1	2
1,5% 36 jam	3	34,1167	
1,5% 24 jam	3		36,5867
1,5% 12 jam	3		38,0500
Sig.		1,000	,096

Means for groups in homogeneous subsets are displayed.

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

L

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05		
		1	2	3
2% 36 jam	3	17,2933		
2% 24 jam	3		23,9367	
2% 12 jam	3			30,2633
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

L

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05		
		1	2	3
2% 12 jam	3	30,2633		
1,5% 12 jam	3		38,0500	
1% 12 jam	3			46,8467
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

L

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05		
		1	2	3
2% 24 jam	3	23,9367		
1,5% 24 jam	3		36,5867	
1% 24 jam	3			41,6767
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

L

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05		
		1	2	3
2% 36 jam	3	17,2933		
1,5% 36 jam	3		34,1167	
1% 36 jam	3			39,9767
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

8.8. Warna (a*)

a

Duncan[a,b]

Pct_basa	N	Subset		
		1	2	3
2%	9	126,0933		
1%	9		126,4589	
1,5%	9			126,6556
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = ,033.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

a

Duncan[a,b]

wkt_hidrls	N	Subset	
		1	2
36 jam	9	126,0056	
24 jam	9	126,1189	
12 jam	9		127,0833
Sig.		,202	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = ,033.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

a

Student-Newman-Keuls[a]

basa_wktu	N	Subset for alpha = .05		
		1	2	3
1% 36 jam	3	124,9800		
1% 24 jam	3		126,8100	
1% 12 jam	3			127,5867
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

a

Student-Newman-Keuls[a]

basa_wktu	N	Subset for alpha = .05		
		1	2	3
1,5% 24 jam	3	126,2933		
1,5% 36 jam	3		127,1933	
1,5% 12 jam	3			127,3700
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

a

Student-Newman-Keuls[a]

basa_wktu	N	Subset for alpha = .05	
		1	2
2% 36 jam	3	124,9800	
2% 24 jam	3		126,1433
2% 12 jam	3		126,2933
Sig.		1,000	,203

Means for groups in homogeneous subsets are displayed.

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

a

Student-Newman-Keuls[a]

basa_wktu	N	Subset for alpha = .05	
		1	2
2% 12 jam	3	126,2933	
1,5% 12 jam	3		127,3700
1% 12 jam	3		127,5867
Sig.		1,000	,165

Means for groups in homogeneous subsets are displayed.

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

a

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05	
		1	2
2% 24 jam	3	126,1433	
1,5% 24 jam	3	126,2933	
1% 24 jam	3		126,8100
Sig.		,372	1,000

Means for groups in homogeneous subsets are displayed.

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

a

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05	
		1	2
1% 36 jam	3	124,9800	
2% 36 jam	3	124,9800	
1,5% 36 jam	3		127,1933
Sig.		1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

8.9. Warna (b*)

Levene's Test of Equality of Error Variances[a]

Dependent Variable: b

F	df1	df2	Sig.
4,941	8	18	,002

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+pct_basa+wkt_hdrlisis+pct_basa * wkt_hdrlisis

Tests of Between-Subjects Effects

Dependent Variable: b

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	116,551[a]	8	14,569	3,811	,009
Intercept	426967,778	1	426967,778	111702,4	,000
pct_basa	26,357	2	13,179	3,448	,054
wkt_hdrlisis	71,415	2	35,708	9,342	,002
pct_basa * wkt_hdrlisis	18,778	4	4,695	1,228	,334
Error	68,803	18	3,822		
Total	427153,131	27			
Corrected Total	185,353	26			

a. R Squared = ,629 (Adjusted R Squared = ,464)

b

Duncan[a,b]

Pct_basa	N	Subset 1	Subset 2	Subset 3
1,5%	9	124,7111		
1%	9		125,9967	
2%	9			126,5644
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = ,240.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

b

Duncan[a,b]

wkt_hidrls	N	Subset 1	Subset 2
36 jam	9	124,3856	
12 jam	9		126,3056
24 jam	9		126,5811
Sig.		1,000	,248

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = ,240.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

b

Student-Newman-Keuls[a]

basa_wktu	N	Subset for alpha = .05		
		1	2	3
1% 36 jam	3	121,5433		
1% 12 jam	3		126,2633	
1% 24 jam	3			130,1833
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

b

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05		
		1	2	3
1,5% 36 jam	3	123,0067		
1,5% 24 jam	3		125,8400	
1,5% 12 jam	3			127,4067
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

b

Student-Newman-Keuls[a]

basa_wktu	N	Subset for alpha = .05	
		1	2
2% 12 jam	3	125,2467	
2% 24 jam	3	125,8400	
2% 36 jam	3		130,1833
Sig.		,091	1,000

Means for groups in homogeneous subsets are displayed.

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

b

Student-Newman-Keuls[a]

basa_wktu	N	Subset for alpha = .05	
		1	2
2% 12 jam	3	125,2467	
1% 12 jam	3	126,2633	
1,5% 12 jam	3		127,4067
Sig.		,056	1,000

Means for groups in homogeneous subsets are displayed.

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

b

Student-Newman-Keuls[a]

basa_wktu	N	Subset for alpha = .05		
		1	2	3
1,5% 24 jam	3	123,7200		
2% 24 jam	3		125,8400	
1% 24 jam	3			130,1833
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

b

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05		
		1	2	3
1% 36 jam	3	121,5433		
1,5% 36 jam	3		123,0067	
2% 36 jam	3			130,1833
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

9.0. pH Sebelum Penetralan

Levene's Test of Equality of Error Variances[a]

Dependent Variable: pH_sblm

F	df1	df2	Sig.
1,434	8	18	,249

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+pct_basa+wkt_hdrlisis+pct_basa * wkt_hdrlisis

Tests of Between-Subjects Effects

Dependent Variable: pH_sblm

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	4,906[a]	8	,613	267,079	,000
Intercept	3709,380	1	3709,380	1615375	,000
pct_basa	4,433	2	2,217	965,342	,000
wkt_hdrlisis	,421	2	,211	91,747	,000
pct_basa * wkt_hdrlisis	,052	4	,013	5,613	,004
Error	,041	18	,002		
Total	3714,328	27			
Corrected Total	4,948	26			

a. R Squared = ,992 (Adjusted R Squared = ,988)

pH_sblm

Duncan[a,b]

pct_basa	N	Subset 1	Subset 2	Subset 3
1%	9	11,2411		
1,5%	9		11,6900	
2%	9			12,2322
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = ,002.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

pH_sblm

Duncan[a,b]

wkt_hdrlisis	N	Subset 1	Subset 2	Subset 3
12 jam	9	11,5600		
24 jam	9		11,7389	
36 jam	9			11,8644
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = ,002.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

pH_sblm

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05	
		1	2
1% 12 jam	3	11,1267	
1% 24 jam	3		11,2700
1% 36 jam	3		11,3267
Sig.		1,000	,328

Means for groups in homogeneous subsets are displayed.

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

pH_sblm

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05		
		1	2	3
1,5% 12 jam	3	11,4533		
1,5% 24 jam	3		11,7167	
1,5% 36 jam	3			11,9000
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

pH_sblm

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05		
		1	2	3
2% 12 jam	3	12,1000		
2% 24 jam	3		12,2300	
2% 36 jam	3			12,3667
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

pH_sblm

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05		
		1	2	3
1% 12 jam	3	11,1267		
1,5% 12 jam	3		11,4533	
2% 12 jam	3			12,1000
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

pH_sblm

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05		
		1	2	3
1% 24 jam	3	11,2700		
1,5% 24 jam	3		11,7167	
2% 24 jam	3			12,2300
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

pH_sblm

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05		
		1	2	3
1% 36 jam	3	11,3267		
1,5% 36 jam	3		11,9000	
2% 36 jam	3			12,3667
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

9.1. pH Sesudah Penetralan

Levene's Test of Equality of Error Variances[a]

Dependent Variable: pH_ssdh

F	df1	df2	Sig.
2,325	8	18	,065

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+pct_basa+wkt_hdrlisis+pct_basa * wkt_hdrlisis

Tests of Between-Subjects Effects

Dependent Variable: pH_ssdh

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	2,079[a]	8	,260	16,361	,000
Intercept	1113,870	1	1113,870	70120,066	,000
pct_basa	1,962	2	,981	61,750	,000
wkt_hdrlisis	,107	2	,053	3,353	,058
pct_basa * wkt_hdrlisis	,011	4	,003	,171	,950
Error	,286	18	,016		
Total	1116,235	27			
Corrected Total	2,365	26			

a. R Squared = ,879 (Adjusted R Squared = ,825)

pH_ssdh

Duncan[a,b]

pct_basa	N	Subset 1	Subset 2	Subset 3
1%	9	6,1422		
1,5%	9		6,3400	
2%	9			6,7867
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = ,016.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

pH_ssdh

Duncan[a,b]

wkt_hdrlisis	N	Subset 1	Subset 2
12 jam	9	6,3500	
24 jam	9	6,4156	6,4156
36 jam	9		6,5033
Sig.		,284	,157

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = ,016.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

pH_ssudah

Student-Newman-Keuls[a]

basa_wktu	N	Subset for alpha = .05	
		1	2
1% 12 jam	3	6,0900	
1,5% 12 jam	3	6,2467	
2% 12 jam	3		6,7133
Sig.		,131	1,000

Means for groups in homogeneous subsets are displayed.

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

pH_ssudah

Student-Newman-Keuls[a]

basa_wktu	N	Subset for alpha = .05	
		1	2
1% 24 jam	3	6,1167	
1,5% 24 jam	3	6,3233	
2% 24 jam	3		6,8067
Sig.		,134	1,000

Means for groups in homogeneous subsets are displayed.

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

pH_ssudah

Student-Newman-Keuls[a]

basa_wktu	N	Subset for alpha = .05	
		1	2
1% 36 jam	3	6,2200	
1,5% 36 jam	3	6,4500	
2% 36 jam	3		6,8400
Sig.		,056	1,000

Means for groups in homogeneous subsets are displayed.

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

pH_ssudah

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05	
		1	2
1% 12 jam	3	6,0900	
1% 24 jam	3	6,1167	
1% 36 jam	3		6,2200
Sig.		,321	1,000

Means for groups in homogeneous subsets are displayed.

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

pH_ssudah

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05
		1
1,5% 12 jam	3	6,2467
1,5% 24 jam	3	6,3233
1,5% 36 jam	3	6,4500
Sig.		,376

Means for groups in homogeneous subsets are displayed.

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

pH_ssudah

Student-Newman-Keuls[a]

wkt_hidrls	N	Subset for alpha = .05
		1
2% 12 jam	3	6,7133
2% 24 jam	3	6,8067
2% 36 jam	3	6,8400
Sig.		,506

Means for groups in homogeneous subsets are displayed.

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

9.2. Kadar Air

kdr_air

Duncan[a,b]

pct_basa	N	Subset
		1
1%	9	5,2501
1,5%	9	5,3802
2%	9	5,5810
Sig.		,331

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = ,442.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

kdr_air

Duncan[a,b]

wkt_hdrlisis	N	Subset 1	Subset 2
12 jam	9	4,9504	
24 jam	9	5,3739	5,3739
36 jam	9		5,8870
Sig.		,193	,119

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = ,442.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

kdr_air

Duncan[a]

basa_wkt	N	Subset for alpha = .05 1
1% 12 jam	3	4,8867
1,5% 12 jam	3	4,9300
2% 12 jam	3	5,0367
1% 24 jam	3	5,1133
1,5% 24 jam	3	5,4200
2% 24 jam	3	5,5933
1% 36 jam	3	5,7533
1,5% 36 jam	3	5,7933
2% 36 jam	3	6,1167
Sig.		,063

Means for groups in homogeneous subsets are displayed.

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

9.3. Kadar Protein

protein

Duncan[a,b]

pct_basa	N	Subset 1	Subset 2	Subset 3
1%	9	32,7193		
1,5%	9		41,6689	
2%	9			49,7215
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 1,597.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

protein

Duncan[a,b]

wkt_hdrlisis	N	Subset 1	Subset 2	Subset 3
12 jam	9	38,3246		
24 jam	9		41,2368	
36 jam	9			44,5482
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = 1,597.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

protein

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05: 1	2	3
1% 12 jam	3	29,4800		
1% 24 jam	3		32,8700	
1% 36 jam	3			35,8100
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

protein

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05	
		1	2
1,5% 12 jam	3	38,1767	
1,5% 24 jam	3		42,3933
1,5% 36 jam	3		44,4333
Sig.		1,000	,058

Means for groups in homogeneous subsets are displayed.

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

protein

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05	
		1	2
2% 12 jam	3	47,3167	
2% 24 jam	3	48,4500	
2% 36 jam	3		53,4033
Sig.		,321	1,000

Means for groups in homogeneous subsets are displayed.

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

protein

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05		
		1	2	3
1% 12 jam	3	29,4800		
1,5% 12 jam	3		38,1767	
2% 12 jam	3			47,3167
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

protein

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05		
		1	2	3
1% 24 jam	3	32,8700		
1,5% 24 jam	3		42,3933	
2% 24 jam	3			48,4500
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

protein

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05		
		1	2	3
1% 36 jam	3	35,8100		
1,5% 36 jam	3		44,4333	
2% 36 jam	3			53,4033
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

9.4. pH Tepung

Levene's Test of Equality of Error Variances[a]

Dependent Variable: pH_tepung

F	df1	df2	Sig.
,919	8	18	,524

Tests the null hypothesis that the error variance of the dependent variable is equal across groups.

a. Design: Intercept+pct_basa+wkt_hdrlisis+pct_basa * wkt_hdrlisis

Tests of Between-Subjects Effects

Dependent Variable: pH_tepung

Source	Type III Sum of Squares	df	Mean Square	F	Sig.
Corrected Model	5,294[a]	8	,662	18,954	,000
Intercept	1098,126	1	1098,126	31454,908	,000
pct_basa	1,013	2	,507	14,511	,000
wkt_hdrlisis	3,964	2	1,982	56,771	,000
pct_basa * wkt_hdrlisis	,317	4	,079	2,268	,102
Error	,628	18	,035		
Total	1104,048	27			
Corrected Total	5,922	26			

a. R Squared = ,894 (Adjusted R Squared = ,847)

pH_tepung

Duncan[a,b]

pct_basa	N	Subset 1	Subset 2	Subset 3
1%	9	6,1422		
1,5%	9		6,3733	
2%	9			6,6167
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = ,035.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

pH_tepung

Duncan[a,b]

wkt_hdrlisis	N	Subset 1	Subset 2	Subset 3
12 jam	9	5,8711		
24 jam	9		6,4633	
36 jam	9			6,7978
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.
Based on Type III Sum of Squares
The error term is Mean Square(Error) = ,035.

a. Uses Harmonic Mean Sample Size = 9,000.

b. Alpha = ,05.

pH_tepung

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05 1	2	3
1% 12 jam	3	5,4367		
1% 24 jam	3		6,3000	
1% 36 jam	3			6,6900
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

pH_tepung

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05	
		1	2
1,5% 12 jam	3	5,9033	
1,5% 24 jam	3		6,4333
1,5% 36 jam	3		6,7833
Sig.		1,000	,082

Means for groups in homogeneous subsets are displayed.

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

pH_tepung

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05	
		1	2
2% 12 jam	3	6,2733	
2% 24 jam	3	6,6567	6,6567
2% 36 jam	3		6,9200
Sig.		,058	,159

Means for groups in homogeneous subsets are displayed.

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

pH_tepung

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05		
		1	2	3
1% 12 jam	3	5,4367		
1,5% 12 jam	3		5,9033	
2% 12 jam	3			6,2733
Sig.		1,000	1,000	1,000

Means for groups in homogeneous subsets are displayed.

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

pH_tepung

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05	
		1	2
1% 24 jam	3	6,3000	
1,5% 24 jam	3	6,4333	6,4333
2% 24 jam	3		6,6567
Sig.		,243	,073

Means for groups in homogeneous subsets are displayed.

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

pH_tepung

Student-Newman-Keuls[a]

basa_wkt	N	Subset for alpha = .05
		1
1% 36 jam	3	6,6900
1,5% 36 jam	3	6,7833
2% 36 jam	3	6,9200
Sig.		,541

Means for groups in homogeneous subsets are displayed.

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

9.5. Uji Korelasi

Correlations

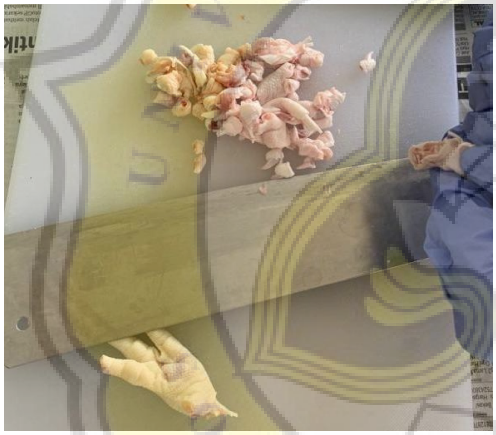
		Berat_gel	pH_sblm	pH_ssudah	Kektn_gel	kd_air	brt_tepung	Rendemen	Prot	pH_tepung	L	a	b
Berat_gel	Pearson Correlation	1	,832**	,768**	,739**	,296	,120	,121	,862**	,673**	-,854**	-,839**	,865**
	Sig. (2-tailed)		,000	,000	,000	,134	,552	,548	,000	,000	,000	,000	,000
	N	27	27	27	27	27	27	27	27	27	27	27	27
pH_sblm	Pearson Correlation	,832**	1	,906**	,750**	,331	,136	,137	,974**	,612**	-,930**	-,981**	,967**
	Sig. (2-tailed)	,000		,000	,000	,091	,499	,494	,000	,001	,000	,000	,000
	N	27	27	27	27	27	27	27	27	27	27	27	27
pH_ssudah	Pearson Correlation	,768**	,906**	1	,613**	,225	,226	,227	,871**	,527**	-,887**	-,872**	,878**
	Sig. (2-tailed)	,000	,000		,001	,260	,258	,255	,000	,005	,000	,000	,000
	N	27	27	27	27	27	27	27	27	27	27	27	27
Kektn_gel	Pearson Correlation	,739**	,750**	,613**	1	,044	,047	,048	,723**	,493**	-,677**	-,787**	,786**
	Sig. (2-tailed)	,000	,000	,001		,827	,817	,813	,000	,009	,000	,000	,000
	N	27	27	27	27	27	27	27	27	27	27	27	27
kd_air	Pearson Correlation	,296	,331	,225	,044	1	-,509**	-,508**	,401*	,624**	-,415*	-,347	,361
	Sig. (2-tailed)	,134	,091	,260	,827		,007	,007	,038	,000	,031	,076	,064
	N	27	27	27	27	27	27	27	27	27	27	27	27
brt_tepung	Pearson Correlation	,120	,136	,226	,047	-,509**	1	1,000**	,092	-,343	-,068	-,068	,062
	Sig. (2-tailed)	,552	,499	,258	,817	,007		,000	,650	,080	,737	,736	,760
	N	27	27	27	27	27	27	27	27	27	27	27	27
Rendemen	Pearson Correlation	,121	,137	,227	,048	-,508**	1,000**	1	,093	-,342	-,069	-,069	,063
	Sig. (2-tailed)	,548	,494	,255	,813	,007	,000		,645	,081	,732	,731	,755
	N	27	27	27	27	27	27	27	27	27	27	27	27
Prot	Pearson Correlation	,862**	,974**	,871**	,723**	,401*	,092	,093	1	,674**	-,932**	-,972**	,975**
	Sig. (2-tailed)	,000	,000	,000	,000	,038	,650	,645		,000	,000	,000	,000
	N	27	27	27	27	27	27	27	27	27	27	27	27
pH_tepung	Pearson Correlation	,673**	,612**	,527**	,493**	,624**	-,343	-,342	,674**	1	-,654**	-,601**	,618**
	Sig. (2-tailed)	,000	,001	,005	,009	,000	,080	,081	,000		,000	,001	,001
	N	27	27	27	27	27	27	27	27	27	27	27	27
L	Pearson Correlation	-,854**	-,930**	-,887**	-,677**	-,415*	-,068	-,069	-,932**	-,654**	1	,921**	-,936**
	Sig. (2-tailed)	,000	,000	,000	,000	,031	,737	,732	,000	,000		,000	,000
	N	27	27	27	27	27	27	27	27	27	27	27	27
a	Pearson Correlation	-,839**	-,981**	-,872**	-,787**	-,347	-,068	-,069	-,972**	-,601**	,921**	1	-,981**
	Sig. (2-tailed)	,000	,000	,000	,000	,076	,736	,731	,000	,001	,000		,000
	N	27	27	27	27	27	27	27	27	27	27	27	27
b	Pearson Correlation	,865**	,967**	,878**	,786**	,361	,062	,063	,975**	,618**	-,936**	-,981**	1
	Sig. (2-tailed)	,000	,000	,000	,000	,064	,760	,755	,000	,001	,000	,000	
	N	27	27	27	27	27	27	27	27	27	27	27	27

**. Correlation is significant at the 0.01 level (2-tailed).

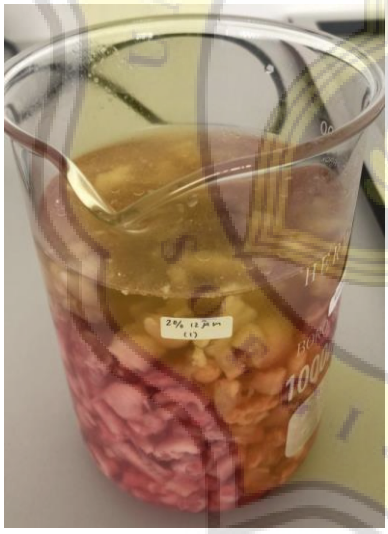
*. Correlation is significant at the 0.05 level (2-tailed).

9.6. Proses Pembuatan Gelatin serta Alat yang Digunakan

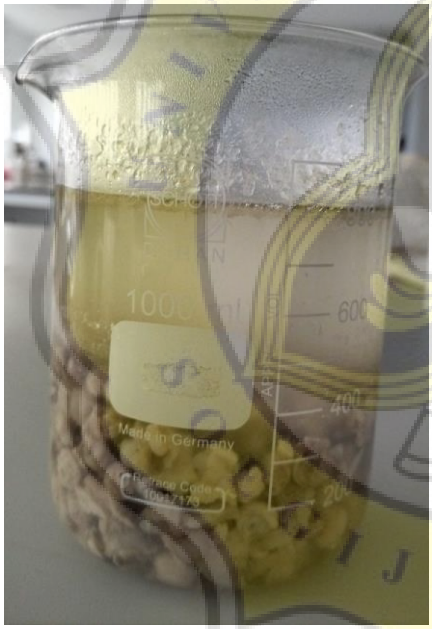
9.6.1. Tahap Persiapan

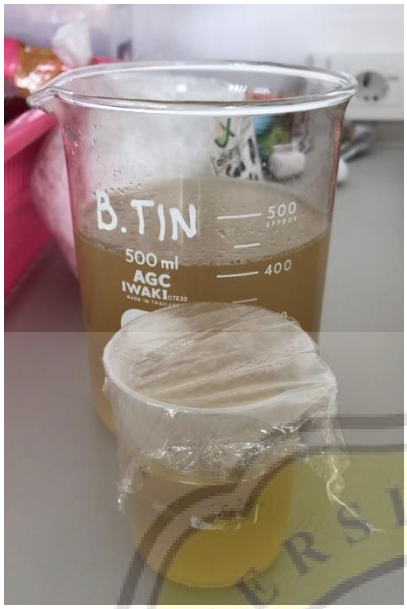


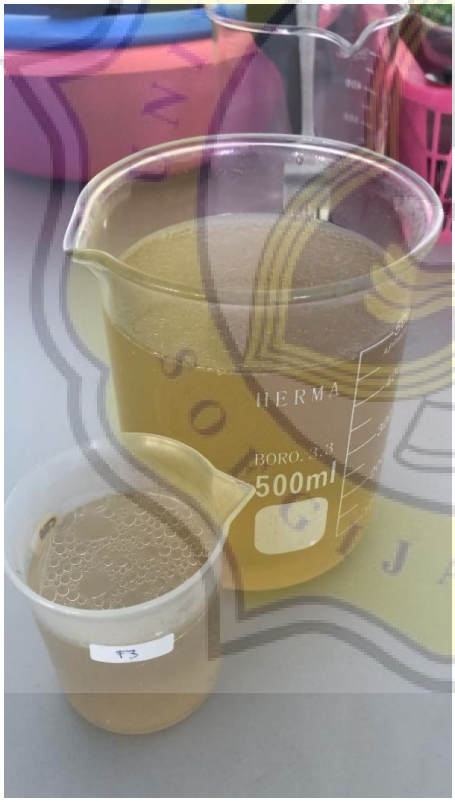
9.6.2. Tahap Hidrolisis



9.6.3. Tahap Ekstraksi dan Pengeringan

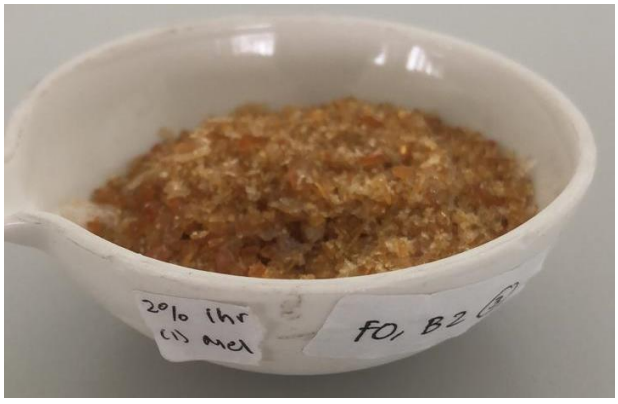



B.TIN
500 ml
AGC
IWAKI


HERMA
BORO. 3.3
500ml
F3

9.6.3.1. Gel setelah pendinginan

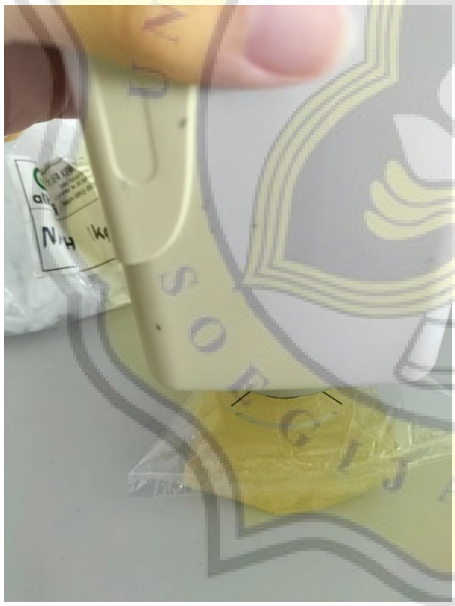
9.6.3.2. Gelatin Kering



9.6.4. Analisis Fisik dan Kimia

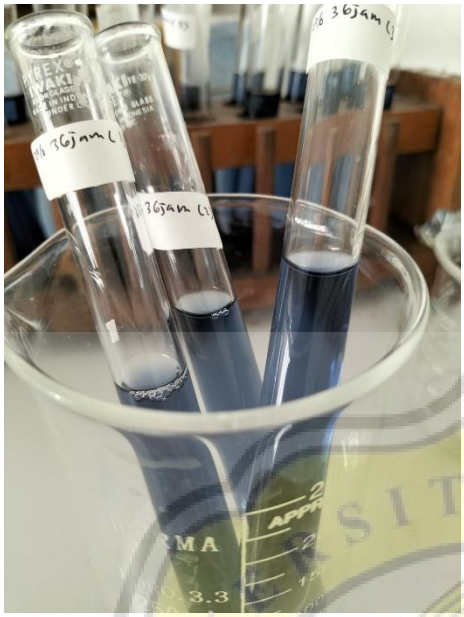
9.6.4.1. Analisis Kekuatan Gel

9.6.4.2. Analisis Warna

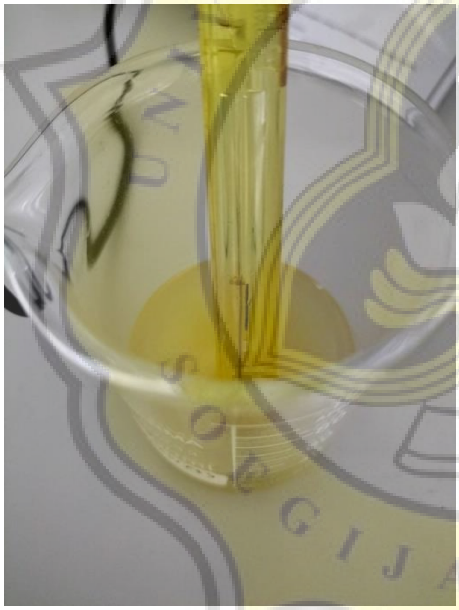



Standard Measurement
D65 45/0 Φ20 12:50 2022.09.22
T 101
L* 41.37
a* -0.82
b* 0.12
c* 0.83
h* 171.63
+b
-a
+a
-b
Sample Measure
3nh

9.6.4.3. Analisis Kadar Protein


36jam (1)
36jam (1)

9.6.4.4. Analisis pH Tepung



9.7. Hasil Plagscan

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Summary